Government Laboratory – Analytical and Advisory Services Division
政府化驗所 - 分析及諮詢事務部

ADDRESS 地址	:	Government Laboratory 7/F, Homantin Government Offices, 88 Chung Hau Street, Kowloon, Hong Kong. 香港九龍何文田忠孝街八十八號何文田政府合署七樓
ENQUIRY 查詢	:	Dr LAU Ting-fong Janet, Chemist 劉婷芳博士，化驗師
TELEPHONE 電話	:	2762 3723
FAX 傳真	:	2714 4083
E-MAIL 電郵	:	tflau@govtlab.gov.hk
WEBSITE ADDRESS 網址	:	www.govtlab.gov.hk
CLIENTELE 服務對象	:	Government departments, normally not available for public testing 通常只服務政府部門

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

ADDRESS
地址

Main Laboratory : Government Laboratory
7/F, Homantin Government Offices, 88 Chung Hau Street, Homantin, Kowloon, Hong Kong.
香港九龍何文田忠孝街八十八號何文田政府合署七樓

Branch / Regional Laboratories : Government Laboratory (Office at Public Works Central Laboratory Building)
Public Works Central Laboratory Building,
Cheung Yip Street, Kowloon Bay, Kowloon, Hong Kong.
香港九龍九龍灣祥業街工務中央試驗所大樓

Government Laboratory (Acoustic Testing Laboratory)
2/F, 323 Java Road, North Point, Hong Kong.
香港北角渣華道三百二十三號二樓

Government Laboratory (Office at Lai Chi Kok Government Offices)
11/F and 12/F, Lai Chi Kok Government Offices, 19 Lai Wan Road,
Lai Chi Kok, Kowloon, Hong Kong.
香港九龍荔枝角荔灣道十九號荔枝角政府合署十一及十二樓

Government Laboratory (Office at Cheung Sha Wan)
4-5/F and 8/F 850-870 Lai Chi Kok Road, Cheung Sha Wan, Kowloon, Hong Kong.
香港九龍長沙灣荔枝角道850-870號四、五及八樓

Government Laboratory (Office at Public Health Laboratory Centre)
4/F, West Wing, Public Health Laboratory Centre, 382 Nam Cheong Street, Kowloon, Hong Kong.
香港九龍南昌街三百八十二號公共衛生檢測中心四樓西翼

Government Laboratory (Special Chemistry Laboratory)
Room 206 & 207, Biotech Centre 1, Hong Kong Science Park, Shatin, Hong Kong.
香港新界沙田香港科學園生物科技中心一座206及207室

Government Laboratory (Food Safety Laboratory)
800 Victoria Road, Pokfulam, Hong Kong.
香港薄扶林域多利道八百號

ACCREDITED TEST CATEGORIES
認可測試類別 :

Calibration Services 校正服務
Chemical Testing 化學測試
Chinese Medicine 中藥
Environmental Testing 環境測試
Food 食品
Miscellaneous 雜類
Pharmaceutical Products 藥物
Physical and Mechanical Testing 物理及機械測試
Proficiency Testing Providers 能力驗證提供者
Reference Material Producers 標準物質生產者
Toys and Children's Products 玩具及兒童產品

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

7/F, Homantin Government Offices, 88 Chung Hau Street, Homantin, Kowloon, Hong Kong.
香港九龍何文田忠孝街八十八號何文田政府合署七樓

Chemical Testing 化學測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Gold and gold alloys	Fineness	ISO 11426: 2021
High purity gold	Purity assessment of gold with fineness greater than 999 ppt	In-house Method GL-GA-3 (ICP-MS & ICP-OES)
Platinum and platinum alloys	Fineness	In-house Method GL-GA-2
Blood	Lead	In-house Method GL-TE-102 (ICP-MS)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

7/F, Homantin Government Offices, 88 Chung Hau Street, Homantin, Kowloon, Hong Kong.
香港九龍何文田忠孝街八十八號何文田政府合署七樓

Chinese Medicine 中藥		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Proprietary Chinese Medicines and Chinese Herbal Medicines	Toxic elements :- Arsenic, Cadmium, Copper, Lead, Mercury	In-house Method GL-CM-3 (ICP-MS)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

7/F, Homantin Government Offices, 88 Chung Hau Street, Homantin, Kowloon, Hong Kong.
香港九龍何文田忠孝街八十八號何文田政府合署七樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Consumer Products :	Volatile organic compound content :	California Environmental Protection Agency California Air Resources Board (CARB) Method 310 (Amended May 5, 2005)
- Air Freshener, Floor Wax Stripper, Hairspray, Insect Repellent, Insecticide, Multi-purpose Lubricant	- Total volatile material - Water content - Water content - Ammonium	- MLD SOP SAS01 (June 27, 2003) - MLD SOP SAS03 (July 8, 2003) (Karl Fischer) - MLD SOP SAS04 (September 5, 2003) (GC-TCD) - MLD SOP SAS02 (July 7, 2003) (ion chromatography)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

7/F, Homantin Government Offices, 88 Chung Hau Street, Homantin, Kowloon, Hong Kong.
香港九龍何文田忠孝街八十八號何文田政府合署七樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Ambient Air collected on filter	Chromium (VI)	In-house Method GL-IN-8
Ambient Air collected on PUF and filter	Polychlorinated dibenzo-p-dioxins and polychlorinated dibenzofurans : 2,3,7,8-TCDF 2,3,7,8-TCDD 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF 1,2,3,4,6,7,8-HpCDD OCDF OCDD	In-house Method GL-OR-6 (HRGC-HRMS)
	Dioxin-like Polychlorinated Biphenyl (PCB) congeners: 3,3',4,4'-Tetrachlorobiphenyl (PCB #77) 3,4,4',5-Tetrachlorobiphenyl (PCB #81) 2,3,3',4,4'-Pentachlorobiphenyl (PCB #105) 2,3,4,4',5-Pentachlorobiphenyl (PCB #114) 2,3',4,4',5-Pentachlorobiphenyl (PCB #118) 2',3,4,4',5-Pentachlorobiphenyl (PCB #123) 3,3',4,4',5-Pentachlorobiphenyl (PCB #126) 2,3,3',4,4',5-Hexachlorobiphenyl (PCB #156) 2,3,3',4,4',5'-Hexachlorobiphenyl (PCB #157) 2,3',4,4',5,5'-Hexachlorobiphenyl (PCB #167) 3,3',4,4',5,5'-Hexachlorobiphenyl (PCB #169) 2,3,3',4,4',5,5'-Heptachlorobiphenyl (PCB #189)	In-house Method GL-OR-61 (HRGC-HRMS)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

7/F, Homantin Government Offices, 88 Chung Hau Street, Homantin, Kowloon, Hong Kong.
香港九龍何文田忠孝街八十八號何文田政府合署七樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Ambient air in DNPH impregnated SEP-PAK cartridge	Carbonyl compounds : Formaldehyde Acetaldehyde Acrolein Acetone Propionaldehyde Crotonaldehyde Methyl ethyl ketone Butyraldehyde/Isobutyraldehyde Benzaldehyde Isovaleraldehyde Valeraldehyde o-Tolualdehyde m-Tolualdehyde p-Tolualdehyde Hexanaldehyde 2,5-Dimethylbenzaldehyde	In-house Method GL-OR-8

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

7/F, Homantin Government Offices, 88 Chung Hau Street, Homantin, Kowloon, Hong Kong.
香港九龍何文田忠孝街八十八號何文田政府合署七樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Ambient Air	Volatile organic compounds : Freon 12 Chloromethane Freon 114 Chloroethene Bromomethane Chloroethane Freon 11 1,1-Dichloroethene Methylene chloride Freon 113 1,1-Dichloroethane cis-1,2-Dichloroethene Chloroform 1,2-Dichloroethane 1,1,1-Trichloroethane Benzene Carbon tetrachloride 1,2-Dichloropropane Trichloroethene cis-1,3 -Dichloropropene trans-1,3-Dichloropropene 1,1,2-Trichloroethane Toluene 1,2-Dibromoethane Tetrachloroethene Chlorobenzene Ethylbenzene m-/p-Xylene Styrene 1,1,2,2-Tetrachloroethane o-Xylene 4-Ethyltoluene 1,3,5-Trimethylbenzene 1,2,4-Trimethylbenzene Benzyl chloride m-Dichlorobenzene p- Dichlorobenzene o- Dichlorobenzene 1,2,4-Trichlorobenzene Hexachlorobutadiene	In-house Method GL-OR-9

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

7/F, Homantin Government Offices, 88 Chung Hau Street, Homantin, Kowloon, Hong Kong.
香港九龍何文田忠孝街八十八號何文田政府合署七樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Ambient air (cont'd)	Volatile organic compounds (cont'd): Propylene Propane Freon 22 1-Propyne Iso-butane 1-Butene/Iso-Butylene Butane trans-2-Butene 2,2-Dimethylpropane 1-Butyne cis-2-Butene 1,3-Butadiene 2-Methylbutane 1-Pentene 2-Methyl-1-Butene Pentane Isoprene Bromoethane trans-2-Pentene cis-2-Pentene 2-Methyl-2-Butene 3-Chloropropene 2,2-Dimethylbutane Cyclopentene trans-1,2-Dichloroethene 4-Methyl-1-Pentene 3-Methyl-1-Pentene Cyclopentane 2,3-Dimethylbutane trans-4-Methyl-2-Pentene 2-Methylpentane cis-4-Methyl-2-Pentene 3-Methylpentane Hexane trans-2-Hexene 2-Ethyl-1-Butene trans-3-Methyl-2-Pentene	In-house Method GL-OR-9

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

7/F, Homantin Government Offices, 88 Chung Hau Street, Homantin, Kowloon, Hong Kong.
香港九龍何文田忠孝街八十八號何文田政府合署七樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Ambient air (cont'd)	Volatile organic compounds (cont'd): cis-2-Hexene cis-3-Methyl-2-Pentene Methylcyclopentane 2,4-Dimethylpentane 2,2,3-Trimethylbutane 1-Methylcyclopentene Cyclohexane 2-Methylhexane 2,3-Dimethylpentane Cyclohexene 3-Methylhexane Dibromomethane Bromodichloromethane 1-Heptene 2,2,4-Trimethylpentane trans-3-Heptene Heptane cis-3-Heptene trans-2-Heptene cis-2-Heptene 2,2-Dimethylhexane Methylcyclohexane 2,5-Dimethylhexane 2,4-Dimethylhexane Bromotrichloromethane 2,3,4-Trimethylpentane 2-Methylheptane 1-Methylcyclohexene 4-Methylheptane 3-Methylheptane Dibromochloromethane 2,2,5-Trimethylhexnae 1-Octene Octane trans-1,2-Dimethylcyclohexane cis-1,2-Dimethylcyclohexane 1,2,4-Trimethylcyclohexane Bromoform 1,4-Dichlorobutane	In-house Method GL-OR-9

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

7/F, Homantin Government Offices, 88 Chung Hau Street, Homantin, Kowloon, Hong Kong.
香港九龍何文田忠孝街八十八號何文田政府合署七樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Ambient air (cont'd)	Volatile organic compounds (cont'd): 1-Nonene Nonane Iso-Propylbenzene 3,6-Dimethyloctane m-/p-Chlorotoluene n-Propylbenzene o-Chlorotoluene 3-Ethyltoluene 2-Ethyltoluene Tert-Butylbenzene 1-Decene Decane Iso-Butylbenzene Sec-Butylbenzene 1,2,3-Trimethylbenzene p-Cymene Indan 1,3-Diethylbenzene 1,4-Diethylbenzene n-Butylbenzene 1,2-Diethylbenzene Undecane 1,2,3,5-Tetramethylbenzene 1,2,4,5-Tetramethylbenzene Naphthalene Dodecane Hexylbenzene	In-house Method GL-OR-9
Ambient air collected on PUF and filter	Perfluorooctanesulfonic acid (PFOS) and Perfluorooctanoic acid (PFOA)	In-house Method GL-OR-141

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

7/F, Homantin Government Offices, 88 Chung Hau Street, Homantin, Kowloon, Hong Kong.
香港九龍何文田忠孝街八十八號何文田政府合署七樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Ambient air collected on PUF and resin	Polycyclic aromatic hydrocarbons: Acenaphthene Acenaphthylene Anthracene Benz(a)anthracene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(g,h,i)perylene Benzo(a)pyrene Benzo(e)pyrene Chrysene Dibenzo(a,h)anthracene Fluoranthene Fluorene Indeno(1,2,3-cd)pyrene Naphthalene Phenanthrene Pyrene	In-house Method GL-OR-10
Asbestos bulk samples	Identification Asbestos containing materials - amosite, crocidolite, chrysotile, fibrous actinolite, fibrous anthophyllite, fibrous tremolite	In-house Method GL-AB-1 Air Pollution Control Ordinance, Section 2 (G.N. 884, Gazette Published on 14/02/2014 No. 07 Vol. 18) Method for Determinating Asbestos Containing Material under Section 2 of the Air Pollution Control Ordinance
Asbestos air-borne fibres and dust	Air sampling - clearance sampling	In-house Method GL-AB-2
Asbestos air-borne samples	Fibre counting - clearance indicator	MDHS 39/4

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

7/F, Homantin Government Offices, 88 Chung Hau Street, Homantin, Kowloon, Hong Kong.
香港九龍何文田忠孝街八十八號何文田政府合署七樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Incinerator fly ash	Polychlorinated dibenzo-p-dioxins and polychlorinated dibenzofurans : 2,3,7,8-TCDF 2,3,7,8-TCDD 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF 1,2,3,4,6,7,8-HpCDD OCDF OCDD	In-house Method GL-OR-72 (HRGC-HRMS)
Fly ash	Dioxin-like Polychlorinated Biphenyl (PCB) congeners: 3,3',4,4'-Tetrachlorobiphenyl (PCB #77) 3,4,4',5-Tetrachlorobiphenyl (PCB #81) 2,3,3',4,4'-Pentachlorobiphenyl (PCB #105) 2,3,4,4',5-Pentachlorobiphenyl (PCB #114) 2,3',4,4',5-Pentachlorobiphenyl (PCB #118) 2',3,4,4',5-Pentachlorobiphenyl (PCB #123) 3,3',4,4',5-Pentachlorobiphenyl (PCB #126) 2,3,3',4,4',5-Hexachlorobiphenyl (PCB #156) 2,3,3',4,4',5'-Hexachlorobiphenyl (PCB #157) 2,3',4,4',5,5'-Hexachlorobiphenyl (PCB #167) 3,3',4,4',5,5'-Hexachlorobiphenyl (PCB #169) 2,3,3',4,4',5,5'-Heptachlorobiphenyl (PCB #189)	In-house Method GL-OR-66 (HRGC-HRMS)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

7/F, Homantin Government Offices, 88 Chung Hau Street, Homantin, Kowloon, Hong Kong.
香港九龍何文田忠孝街八十八號何文田政府合署七樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Water and Wastewater	Physical Examination :-	
	- Chlorophyll-a & Pheo-pigments	In-house Method GL-OR-34
	- Colour	In-house Method GL-PH-12 (Lovibond Tintometer)
	- Conductivity	BS 2690 Part 9: 1970: Section 6
	- Dissolved Oxygen	APHA 17e 4500-O G APHA 20e 4500-OG
	- pH Value	APHA 17e 4500-H^+B APHA 20e 4500- H^+B
	- Settleable Solids	APHA 17e 2540F
	- Total Solids dried at 103-105℃	In-house Method GL-PH-19
	- Total Suspended Solids dried at 103-105℃	APHA 17e 2540D APHA 22e 2540D In-house Method GL-PH-23
	- Total Volatile Solids and Volatile Suspended Solids ignited at 550℃	In-house Method GL-PH-19 In-house Method GL-PH-23
	- Turbidity	In-house Method GL-PH-20

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

7/F, Homantin Government Offices, 88 Chung Hau Street, Homantin, Kowloon, Hong Kong.
香港九龍何文田忠孝街八十八號何文田政府合署七樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Water and Wastewater (cont'd)	Trace Metals :-	
	- Digestion/Sample Preparation Procedures	APHA 17e 3030A, F3.b, 3112B, 3113B, 4a.3 3114B, 4d APHA 22e 3030A, 3030B, F3b In-house Method GL-TE-50
	- Cadmium	APHA 17e 3113 APHA 22e 3113 (Electrothermal AAS)
	- Selenium	APHA 17e 3114 with modification APHA 22e 3114 with modification (Hydride Generation AAS)
	- Arsenic	APHA 17e 3114 with modification APHA 22e 3114 with modification (Hydride Generation AAS)
	- Mercury	APHA 17e 3112 with modification APHA 22e 3112 with modification (Cold vapour AAS)
	- Antimony, Barium, Beryllium, Boron, Cadmium, Chromium, Copper, Iron, Manganese, Nickel, Lead, Silver, Thallium, Vanadium, Zinc	APHA 17e 3120 APHA 22e 3120 (ICP-AES)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

7/F, Homantin Government Offices, 88 Chung Hau Street, Homantin, Kowloon, Hong Kong.
香港九龍何文田忠孝街八十八號何文田政府合署七樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Water and Wastewater (cont'd)	Trace Metals :- (cont'd)	
	- Aluminium, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Mercury, Molybdenum, Nickel, Selenium, Silver, Thallium, Tin, Vanadium, Zinc	In-house Method GL-TE-63 (ICP-MS)
	- Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Nickel, Potassium, Silver, Sodium, Thallium, Vanadium, Zinc	In-house Method GL-TE-60 (ICP-AES)
	Non - metallic Constituents :-	
	- Chloride	APHA 17e and 20e 4500-Cl^- B & D In-house Method GL-IN-43 (FIA)
	- Cyanide	ASTM D2036-89A ASTM D2036-98A In-house Method GL-IN-42 (FIA)
	- Fluoride	APHA 17e 4500-F^- C APHA 20e 4500-F^- C In-house Method GL-IN-47 (FIA)
	- Nitrogen (Ammonia)	APHA 17e 4500-NH_3 B, C APHA 20e 4500-NH_3 B, F In-house Method GL-IN-15 (FIA)
	- Nitrogen (Nitrate)	APHA 17e and 20e 4500-NO_3^- E In-house Method GL-IN-18 (FIA)
	- Nitrogen (Nitrite)	APHA 17e and 20e 4500-NO_2^- B In-house Method GL-IN-18 (FIA)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

7/F, Homantin Government Offices, 88 Chung Hau Street, Homantin, Kowloon, Hong Kong.
香港九龍何文田忠孝街八十八號何文田政府合署七樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Water and Wastewater (cont'd)	Non - metallic Constituents :- (cont'd)	
	- Nitrogen (Total Kjeldahl)	APHA 20e 4500-Norg D In-house Method GL-IN-14, GL-IN-15 (FIA)
	- Phosphorus (Total)	APHA 20e 4500-P B & E ASTM D515-88A In-house Method GL-IN-14, GL-IN-16 (FIA)
	- Phosphorus (Reactive)	APHA 17e and 20e 4500-P E
	- Phosphorus (Dissolved & Reactive)	In-house Method GL-IN-16 (FIA)
	- Silica	In-house Method GL-IN-17 (FIA)
	- Sulphate	APHA 17e and 20e 4500-SO_4^{2-} C In-house Method GL-IN-39 (Ion Chromatography)
	- Total Sulphide	APHA 17e 4500-S^{2-} B, C & D APHA 20e 4500-S^{2-} B, C & D
	- Total Residual Chlorine	APHA 17e 4500-Cl G APHA 20e 4500-Cl G
	Organic Pollutants :-	
	- Oil & Grease	APHA 20e 5520B In-house Method GL-OR-28
	- Hydrocarbons	APHA 20e 5520F
	- Total Organic Carbon	In-house Method GL-OR-32 (TOC)
	- Oxygen-Demand (Biochemical)	BS 6068: Section 2.14: 1984 BS 6068: Section 2.63: 1998 EN 1899-1: 1998
	- Oxygen-Demand (Chemical)	ASTM D 1252-88 A and B ASTM D 1252-00 A and B

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

7/F, Homantin Government Offices, 88 Chung Hau Street, Homantin, Kowloon, Hong Kong.
香港九龍何文田忠孝街八十八號何文田政府合署七樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Water and Wastewater (cont'd)	Organic Pollutants :- (cont'd)	
	- Phenols	APHA 17e 5530B & D APHA 20e 5530B & D
	- Anionic Surfactants	BS 6068: 2.23: 1986 BS 6068: Section 2.23: 1994 BS EN 903: 1994 In-house Method GL-OR-65 (FIA)
	- Non-ionic Surfactants	BS 6068: 2.24: 1986
	- Organochlorine Pesticides : alpha - BHC beta - BHC delta - BHC gamma – BHC (Lindane) 2,4' - DDD 4,4' - DDD 2,4' - DDE 4,4' - DDE 2,4' - DDT 4,4' - DDT Aldrin Dieldrin Endrin Heptachlor Heptachlor epoxide Hexachlorobenzene Endosulfan I Endosulfan II cis-Chlordane trans-Chlordane oxy-Chlordane cis-Nonachlor trans-Nonachlor Mirex	In-house Method GL-OR-16 (GC-ECD)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

7/F, Homantin Government Offices, 88 Chung Hau Street, Homantin, Kowloon, Hong Kong.
香港九龍何文田忠孝街八十八號何文田政府合署七樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Water and Wastewater (cont'd)	Organic Pollutants :- (cont'd)	
	Dioxin-like Polychlorinated Biphenyl (PCB) congeners: 3,3',4,4'-Tetrachlorobiphenyl (PCB #77) 3,4,4',5-Tetrachlorobiphenyl (PCB #81) 2,3,3',4,4'-Pentachlorobiphenyl (PCB #105) 2,3,4,4',5-Pentachlorobiphenyl (PCB #114) 2,3',4,4',5-Pentachlorobiphenyl (PCB #118) 2',3,4,4',5-Pentachlorobiphenyl (PCB #123) 3,3',4,4',5-Pentachlorobiphenyl (PCB #126) 2,3,3',4,4',5-Hexachlorobiphenyl (PCB #156) 2,3,3',4,4',5'-Hexachlorobiphenyl (PCB #157) 2,3',4,4',5,5'-Hexachlorobiphenyl (PCB #167) 3,3',4,4',5,5'-Hexachlorobiphenyl (PCB #169) 2,3,3',4,4',5,5'-Heptachlorobiphenyl (PCB #189)	In-house Method GL-OR-60 (HRGC-HRMS)
	- Tri-n-Butyltin	In-house Method GL-OR-19, GL-OR-20 (GC-MSD)
	- Organotin compounds:- Monobutyltin Dibutyltin Tetrabutyltin Triphenyltin	In-house method GL-OR-20 (GC-MSD)
	- Polycyclic Aromatic Hydrocarbons: Acenaphthene Acenaphthylene Anthracene Benz(a)anthracene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(g,h,i)perylene Benzo(a)pyrene Dibenz(a,h)anthracene Chrysene Fluoranthene Fluorene Indeno(1,2,3-cd)pyrene Phenanthrene Pyrene	In-house Method GL-OR-15 (HPLC with SPE clean-up)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

7/F, Homantin Government Offices, 88 Chung Hau Street, Homantin, Kowloon, Hong Kong.
香港九龍何文田忠孝街八十八號何文田政府合署七樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Water and Wastewater (cont'd)	Semivolatile Organic Compounds :- Acenaphthene Acenaphthylene Aldrin Anthracene Benz(a)anthracene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(g,h,i)perylene Benzo(a)pyrene alpha - BHC beta - BHC delta - BHC gamma - BHC (Lindane) 2,4' - DDD 4,4' - DDD 2,4' - DDE 4,4' - DDE 2,4' - DDT 4,4' - DDT Chrysene Dibenz(a,h)anthracene Dieldrin Endosulfan I Endosulfan II Endrin Fluoranthene Fluorene Heptachlor Heptachlor epoxide Hexachlorobenzene Indeno(1,2,3-cd)pyrene Phenanthrene Pyrene	In-house Method GL-OR-21 (GCMS)
	Perfluorooctanesulfonic acid (PFOS) and Perfluorooctanoic acid (PFOA)	In-house Method GL-OR-141

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

7/F, Homantin Government Offices, 88 Chung Hau Street, Homantin, Kowloon, Hong Kong.
香港九龍何文田忠孝街八十八號何文田政府合署七樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Water and Wastewater (cont'd)	Polychlorinated dibenzo-p-dioxins and polychlorinated dibenzofurans : 2,3,7,8-TCDF 2,3,7,8-TCDD 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF 1,2,3,4,6,7,8-HpCDD OCDF OCDD	In-house Method GL-OR-58 (HRGC-HRMS)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

7/F, Homantin Government Offices, 88 Chung Hau Street, Homantin, Kowloon, Hong Kong.
香港九龍何文田忠孝街八十八號何文田政府合署七樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Water and Wastewater (cont'd)	Polychlorinated Biphenyl (PCB) Congeners: 2,4'-Dichlorobiphenyl (PCB #8) 2,2',5-Trichlorobiphenyl (PCB #18) 2,4,4'-Trichlorobiphenyl (PCB #28) 2,4',5-Trichlorobiphenyl (PCB #31) 2,2'3,5'-Tetrachlorobiphenyl (PCB #44) 2,2',5,5'-Tetrachlorobiphenyl (PCB #52) 2,3',4,4'-Tetrachlorobiphenyl (PCB 66) 3,3',4,4'-Tetrachlorobiphenyl (PCB #77) 3,4,4',5-Tetrachlorobiphenyl (PCB #81) 2,2',4,5,5'-Pentachlorobiphenyl (PCB #101) 2,3,3',4,4'-Pentachlorobiphenyl (PCB #105) 2,3,4,4',5-Pentachlorobiphenyl (PCB #114) 2,3',4,4',5-Pentachlorobiphenyl (PCB #118) 2',3,4,4',5-Pentachlorobiphenyl (PCB #123) 3,3',4,4',5-Pentachlorobiphenyl (PCB #126) 2,2',3,3',4,4'-Hexachlorobiphenyl (PCB #128) 2,2',3,4,4',5'-Hexachlorobiphenyl (PCB #138) 2,2',3,4',5',6-Hexachlorobiphenyl (PCB #149) 2,2',4,4',5,5'-Hexachlorobiphenyl (PCB #153) 2,3,3',4,4',5-Hexachlorobiphenyl (PCB #156) 2,3,3',4,4',5'-Hexachlorobiphenyl (PCB #157) 2,3',4,4',5,5'-Hexachlorobiphenyl (PCB #167) 3,3',4,4',5,5'-Hexachlorobiphenyl (PCB #169) 2,2',3,3',4,4',5-Heptachlorobiphenyl (PCB #170) 2,2',3,4,4',5,5'-Heptachlorobiphenyl (PCB #180) 2,2',3,4',5,5',6-Heptachlorobiphenyl (PCB #187) 2,3,3',4,4',5,5'-Heptachlorobiphenyl (PCB #189)	In-house Method GL-OR-57 (GC-MS)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

7/F, Homantin Government Offices, 88 Chung Hau Street, Homantin, Kowloon, Hong Kong.
香港九龍何文田忠孝街八十八號何文田政府合署七樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Saline water	Trace Metals :-	
	Digestion / Sample Preparation Procedure	In-house Method GL-TE-50
	- Arsenic, Cadmium, Chromium, Copper, Lead, Mercury, Nickel, Zinc	In-house Method GL-TE-94 (Discrete Sampling ICP-MS)
	Non-metallic Constituents :-	
	- Nitrogen (Ammonia)	In-house Method GL-IN-15 (FIA)
	- Nitrogen (Nitrate)	In-house Method GL-IN-18 (FIA)
	- Phosphorus (Dissolved & Reactive)	In-house Method GL-IN-16 (FIA)
	- Total Suspended Solids dried at 103-105℃	In-house Method GL-PH-23
	- Volatile Suspended Solids ignited at 550℃	In-house Method GL-PH-23
	- Silica	In-house Method GL-IN-17 (FIA)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

7/F, Homantin Government Offices, 88 Chung Hau Street, Homantin, Kowloon, Hong Kong.
香港九龍何文田忠孝街八十八號何文田政府合署七樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Biota	Trace Metals :	
	- Digestion Procedure	In-house Method GL-TE-10 (Acid Digestion Procedure for Biota)
	- Aluminium, Arsenic, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Mercury, Nickel, Vanadium, Zinc	In-house Method GL-TE-65 (ICP-MS)
	Dioxin-like Polychlorinated Biphenyl (PCB) congeners: 3,3',4,4'-Tetrachlorobiphenyl (PCB #77) 3,4,4',5-Tetrachlorobiphenyl (PCB #81) 2,3,3',4,4'-Pentachlorobiphenyl (PCB #105) 2,3,4,4',5-Pentachlorobiphenyl (PCB #114) 2,3',4,4',5-Pentachlorobiphenyl (PCB #118) 2',3,4,4',5-Pentachlorobiphenyl (PCB #123) 3,3',4,4',5-Pentachlorobiphenyl (PCB #126) 2,3,3',4,4',5-Hexachlorobiphenyl (PCB #156) 2,3,3',4,4',5'-Hexachlorobiphenyl (PCB #157) 2,3',4,4',5,5'-Hexachlorobiphenyl (PCB #167) 3,3',4,4',5,5'-Hexachlorobiphenyl (PCB #169) 2,3,3',4,4',5,5'-Heptachlorobiphenyl (PCB #189)	In-house Method GL-OR-67 (HRGC-HRMS)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

7/F, Homantin Government Offices, 88 Chung Hau Street, Homantin, Kowloon, Hong Kong.
香港九龍何文田忠孝街八十八號何文田政府合署七樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Biota	Polychlorinated Biphenyl (PCB) Congeners: 2,4'-Dichlorobiphenyl (PCB #8) 2,2',5-Trichlorobiphenyl (PCB #18) 2,4,4'-Trichlorobiphenyl (PCB #28) 2,4',5-Trichlorobiphenyl (PCB #31) 2,2'3,5'-Tetrachlorobiphenyl (PCB #44) 2,2',5,5'-Tetrachlorobiphenyl (PCB #52) 2,3',4,4'-Tetrachlorobiphenyl (PCB 66) 3,3',4,4'-Tetrachlorobiphenyl (PCB #77) 3,4,4',5-Tetrachlorobiphenyl (PCB #81) 2,2',4,5,5'-Pentachlorobiphenyl (PCB #101) 2,3,3',4,4'-Pentachlorobiphenyl (PCB #105) 2,3,4,4',5-Pentachlorobiphenyl (PCB #114) 2,3',4,4',5-Pentachlorobiphenyl (PCB #118) 2',3,4,4',5-Pentachlorobiphenyl (PCB #123) 3,3',4,4',5-Pentachlorobiphenyl (PCB #126) 2,2',3,3',4,4'-Hexachlorobiphenyl (PCB #128) 2,2',3,4,4',5'-Hexachlorobiphenyl (PCB #138) 2,2',3,4',5',6-Hexachlorobiphenyl (PCB #149) 2,2',4,4',5,5'-Hexachlorobiphenyl (PCB #153) 2,3,3',4,4',5-Hexachlorobiphenyl (PCB #156) 2,3,3',4,4',5'-Hexachlorobiphenyl (PCB #157) 2,3',4,4',5,5'-Hexachlorobiphenyl (PCB #167) 3,3',4,4',5,5'-Hexachlorobiphenyl (PCB #169) 2,2',3,3',4,4',5-Heptachlorobiphenyl (PCB #170) 2,2',3,4,4',5,5'-Heptachlorobiphenyl (PCB #180) 2,2',3,4',5,5',6-Heptachlorobiphenyl (PCB #187) 2,3,3',4,4',5,5'-Heptachlorobiphenyl (PCB #189)	In-house Method GL-OR-56 (GC-MS)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

7/F, Homantin Government Offices, 88 Chung Hau Street, Homantin, Kowloon, Hong Kong.
香港九龍何文田忠孝街八十八號何文田政府合署七樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Biota	Polychlorinated dibenzo-p-dioxins and polychlorinated dibenzofurans : 2,3,7,8-TCDF 2,3,7,8-TCDD 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF 1,2,3,4,6,7,8-HpCDD OCDF OCDD	In-house Method GL-TT-3 (HRGC-HRMS)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

7/F, Homantin Government Offices, 88 Chung Hau Street, Homantin, Kowloon, Hong Kong.
香港九龍何文田忠孝街八十八號何文田政府合署七樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Biota	Organic Pollutants: - Organochlorine Pesticides : alpha - BHC beta - BHC delta - BHC gamma - BHC (Lindane) 2,4' - DDD 4,4' - DDD 2,4' - DDE 4,4' - DDE 2,4' - DDT 4,4' - DDT Aldrin Dieldrin Endrin Heptachlor Heptachlor epoxide Hexachlorobenzene Endosulfan I Endosulfan II cis-Chlordane trans-Chlordane oxy-Chlordane cis-Nonachlor trans-Nonachlor Mirex	In-house Method GL-OR-16 (GC-ECD with SPE clean-up)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

7/F, Homantin Government Offices, 88 Chung Hau Street, Homantin, Kowloon, Hong Kong.
香港九龍何文田忠孝街八十八號何文田政府合署七樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Sediment	Trace Metals : (Acid Leachable)	
	- Digestion Procedure	In-house Method GL-TE-51 (Acid Digestion Procedure for Sediment)
	- Aluminium, Arsenic, Barium, Cadmium, Chromium, Cobalt, Copper, Iron, Lead, Manganese, Mercury, Nickel, Selenium, Silver, Tin, Vanadium, Zinc	In-house Method GL-TE-64 (ICP-MS)
Sediment and soil	Trace Metals : (Acid Leachable)	
	- Aluminium, Antimony, Arsenic, Barium, Boron, Beryllium, Cadmium,Chromium, Copper, Iron, Lead,Manganese, Mercury, Molybdenum, Nickel,Silver, Thallium, Vanadium, Zinc	In-house Method GL-TE-103 (Digestion and analysis by ICP-MS)
Sediment	Non-metallic Constituents :-	
	- Total Carbon	In-house Method GL-OR-33 (TOC)
	- Total Inorganic Carbon	In-house Method GL-OR-33 (TOC)
	- Total Organic Carbon	In-house Method GL-OR-33 (TOC)
	- Exchangeable Ammonia Nitrogen	In-house Method GL-IN-19 (FIA)
	- Cyanide	In-house Method GL-IN-44 (FIA)
	- Acid Volatile Sulphide	In-house Method GL-IN-45 (Spectrophotometry)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

7/F, Homantin Government Offices, 88 Chung Hau Street, Homantin, Kowloon, Hong Kong.
香港九龍何文田忠孝街八十八號何文田政府合署七樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Sediment (cont'd)	Organic Pollutants:	
	Semivolatile Organic Compounds :	In-house Method GL-OR-21 (GCMS)
	Acenaphthene Acenaphthylene Aldrin Anthracene Benz(a)anthracene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(g,h,i)perylene Benzo(a)pyrene alpha - BHC beta - BHC delta - BHC gamma - BHC (Lindane) 2,4' - DDD 4,4' - DDD 2,4' - DDE 4,4' - DDE 2,4' - DDT 4,4' - DDT Chrysene Dibenz(a,h)anthracene Dieldrin Endosulfan I Endosulfan II Endrin Fluoranthene Fluorene Heptachlor Heptachlor epoxide Hexachlorobenzene Indeno(1,2,3 - cd) pyrene Phenanthrene Pyrene	
	- Organotin compounds	In-house method GL-OR-20 (GC-MSD)
	Monobutyltin Dibutyltin Tetrabutyltin Triphenyltin	

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

7/F, Homantin Government Offices, 88 Chung Hau Street, Homantin, Kowloon, Hong Kong.
香港九龍何文田忠孝街八十八號何文田政府合署七樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Sediment (cont'd)	Organic Pollutants: Polychlorinated Biphenyl Congeners :- 2,4'-Dichlorobiphenyl (8) 2,2',5-Trichlorobiphenyl (18) 2,4,4'-Trichlorobiphenyl (28) 2,4',5-Trichlorobiphenyl (31) 2',3,4-Trichlorobiphenyl (33) 2,2', 3,5'-Tetrachlorobiphenyl (44) 2,2', 5,5'-Tetrachlorobiphenyl (52) 2,3', 4,4'-Tetrachlorobiphenyl (66) 2,3', 4',5-Tetrachlorobiphenyl (70) 3,3', 4,4'-Tetrachlorobiphenyl (77) 3,4,4',5-Tetrachlorobiphenyl (81) 2,2', 4,5,5'-Pentachlorobiphenyl (101) 2,3,3',4,4'-Pentachlorobiphenyl (105) 2,3,4,4',5-Pentachlorobiphenyl (114) 2,3', 4,4',5-Pentachlorobiphenyl (118) 2,3',4,4',6-Pentachlorobiphenyl (119) 2',3,4,4',5-Pentachlorobiphenyl (123) 3,3',4,4',5-Pentachlorobiphenyl (126) 2,2', 3,3', 4,4'-Hexachlorobiphenyl (128) 2,2', 3,4,4',5'-Hexachlorobiphenyl (138) 2,2',3,4',5',6-Hexachlorobiphenyl (149) 2,2',4,4',5,5'-Hexachlorobiphenyl (153) 2,3,3', 4,4',5-Hexachlorobiphenyl (156) 2, 3,3',4,4',5-Hexachlorobiphenyl (157) 2,3',4,4',5,5'-Hexachlorobiphenyl (167) 3,3',4,4',5,5'-Hexachlorobiphenyl (169) 2,2',3,3',4,4',5-Heptachlorobiphenyl (170) 2,2',3,4,4',5,5'-Heptachlorobiphenyl (180) 2,2',3,4',5,5',6-Heptachlorobiphenyl (187) 2,3,3',4,4',5,5'-Heptachlorobiphenyl (189) 2,2',3,3',4,4',5,5'-Octachlorobiphenyl (194) 2,2',3,3',4,4',5,6-Octachlorobiphenyl (195) 2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (206)	In-house Method GL-OR-25 (ASE/GC-MSD)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

7/F, Homantin Government Offices, 88 Chung Hau Street, Homantin, Kowloon, Hong Kong.
香港九龍何文田忠孝街八十八號何文田政府合署七樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Sediment (cont'd)	Organic Pollutants: (cont'd)	
	- Polycyclic Aromatic Hydrocarbons:	In-house Method GL-OR-15 (HPLC with SPE clean-up)
	Acenaphthene Acenaphthylene Anthracene Benz(a)anthracene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(g,h,i)perylene Benzo(a)pyrene Chrysene Dibenz(a,h)anthracene Fluoranthene Fluorene Indeno(1,2,3-cd)pyrene Phenanthrene Pyrene	
	- Halogenated Hydrocarbons:	In-house Method GL-OR-18 (GC-ECD)
	Bromoform Bromodichloromethane Bromotrichloromethane Chlorodibromomethane Chloroform 1,2-Dichlorobenzene 1,3-Dichlorobenzene Trichloroethylene Tetrachloroethylene	

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

7/F, Homantin Government Offices, 88 Chung Hau Street, Homantin, Kowloon, Hong Kong.
香港九龍何文田忠孝街八十八號何文田政府合署七樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Sediment (cont'd)	Organic Pollutants:	
	- Organochlorine Pesticides :	In-house Method GL-OR-16 (GC-ECD with SPE clean-up)
	alpha - BHC beta - BHC delta - BHC gamma - BHC (Lindane) 2,4' - DDD 4,4' - DDD 2,4' - DDE 4,4' - DDE 2,4' - DDT 4,4' - DDT Aldrin Dieldrin Endrin Heptachlor Heptachlor epoxide Hexachlorobenzene Endosulfan I Endosulfan II cis-Chlordane trans-Chlordane oxy-Chlordane cis-Nonachlor trans-Nonachlor Mirex	
	Tri-n-Butyltin	In-house Method GL-OR-19, GL-OR-20 (GC-MSD)
	Perfluorooctanesulfonic acid (PFOS) and Perfluorooctanoic acid (PFOA)	In-house Method GL-OR-141

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

7/F, Homantin Government Offices, 88 Chung Hau Street, Homantin, Kowloon, Hong Kong.
香港九龍何文田忠孝街八十八號何文田政府合署七樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Sediment, Soil and Sludge	Organic Pollutants:- (cont'd) - Organochlorine Pesticides : alpha - BHC beta - BHC delta - BHC gamma - BHC (Lindane) 2,4' - DDD 4,4' - DDD 2,4' - DDE 4,4' - DDE 2,4' - DDT 4,4' - DDT Aldrin Dieldrin Endrin Heptachlor Heptachlor epoxide Hexachlorobenzene Pentachlorobenzene Endosulfan I Endosulfan II cis-Chlordane trans-Chlordane oxy-Chlordane cis-Nonachlor trans-Nonachlor Mirex	In-house Method GL-OR-161 (GC-MS/MS)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

7/F, Homantin Government Offices, 88 Chung Hau Street, Homantin, Kowloon, Hong Kong.
香港九龍何文田忠孝街八十八號何文田政府合署七樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Sediment, Soil and Sludge	Organic Pollutants:- (cont'd)	
	Polychlorinated dibenzo-p-dioxins and polychlorinated dibenzofurans : 2,3,7,8-TCDF 2,3,7,8-TCDD 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF 1,2,3,4,6,7,8-HpCDD OCDF OCDD	In-house Method GL-OR-73 (HRGC-HRMS)
	Dioxin-like Polychlorinated Biphenyl (PCB) congeners: 3,3',4,4'-Tetrachlorobiphenyl (PCB #77) 3,4,4',5-Tetrachlorobiphenyl (PCB #81) 2,3,3',4,4'-Pentachlorobiphenyl (PCB #105) 2,3,4,4',5-Pentachlorobiphenyl (PCB #114) 2,3',4,4',5-Pentachlorobiphenyl (PCB #118) 2',3,4,4',5-Pentachlorobiphenyl (PCB #123) 3,3',4,4',5-Pentachlorobiphenyl (PCB #126) 2,3,3',4,4',5-Hexachlorobiphenyl (PCB #156) 2,3,3',4,4',5'-Hexachlorobiphenyl (PCB #157) 2,3',4,4',5,5'-Hexachlorobiphenyl (PCB #167) 3,3',4,4',5,5'-Hexachlorobiphenyl (PCB #169) 2,3,3',4,4',5,5'-Heptachlorobiphenyl (PCB #189)	In-house Method GL-OR-62 (HRGC-HRMS)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

7/F, Homantin Government Offices, 88 Chung Hau Street, Homantin, Kowloon, Hong Kong.
香港九龍何文田忠孝街八十八號何文田政府合署七樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
General foodstuff	Trace elements :- Antimony, Arsenic, Cadmium, Chromium, Lead, Mercury, Tin	In-house Method GL-TE-10 In-house Method GL-TE-65 (ICP-MS)
	Nutrition labelling: - Calcium and sodium	In-house Method GL-TE-91 (ICP-AES)
Formulated Milk Powder	Composition: -	
	Iodine	In-house Method GL-TE-95 (ICP-MS)
	Calcium, Iron, Magnesium, Phosphorus, Potassium, Sodium, Zinc	In-house Method GL-TE-98 (ICP-OES)
	Copper, Selenium, Manganese, Zinc	In-house Methods GL-TE-99 (ICP-MS)
	Contaminants:-	
Fish	Methylmercury	In-house Methods GL-TE-96 (LC-ICP-MS)
Rice and aquatic product	Inorganic arsenic	In-house Methods GL-TE-101 (IC-ICP-MS)
Drinking water	Arsenic, Boron, Barium, Cadmium, Chromium, Copper, Mercury, Manganese, Nickel, Lead, Antimony, Selenium, Uranium	In-house Methods GL-TE-107 (ICP-MS)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

7/F, Homantin Government Offices, 88 Chung Hau Street, Homantin, Kowloon, Hong Kong.
香港九龍何文田忠孝街八十八號何文田政府合署七樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
General foodstuff	Dioxin and dioxin-like polychlorinated biphenyl congeners :- 2,3,7,8-TCDF 2,3,7,8,-TCDD 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8- HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF 1,2,3,4,6,7,8-HpCDD OCDF OCDD 3,3',4,4'-Tetrachlorobiphenyl (PCB-77) 3,4,4',5-Tetrachlorobiphenyl (PCB-81) 2,3,3',4,4'-Pentachlorobiphenyl (PCB-105) 2,3,4,4',5-Pentachlorobiphenyl (PCB-114) 2,3',4,4',5-Pentachlorobiphenyl (PCB-118) 2',3,4,4',5-Pentachlorobiphenyl (PCB-123) 3,3',4,4',5-Pentachlorobiphenyl (PCB-126) 2,3,3',4,4',5-Hexachlorobiphenyl (PCB-156) 2,3,3',4,4',5'-Hexachlorobiphenyl (PCB-157) 2,3',4,4',5,5'-Hexachlorobiphenyl (PCB-167) 3,3',4,4',5,5'-Hexachlorobiphenyl (PCB-169) 2,3,3',4,4',5,5'-Heptachlorobiphenyl (PCB-189)	In-house Method GL-TT-2

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

7/F, Homantin Government Offices, 88 Chung Hau Street, Homantin, Kowloon, Hong Kong.
香港九龍何文田忠孝街八十八號何文田政府合署七樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
General foodstuff	Additives :- - Mineral oil	 In-house Method GL-AD-16
	Contaminants :-	
	- Cyanide (free)	In-house Method GL-FC-3
	- Formaldehyde	In-house Method GL-FC-5
	- Naphthalene	In-house Method GL-FC-1
	- Melamine	In-house Method GL-FC-7
	- Phthalates: Di(2-ethylhexyl) phthalate (DEHP) Benzylbutyl phthalate (BBP) Di-isononyl phthalate (DINP) Diisodecyl ortho- phthalate (DIDP) Di-n-octyl phthalate (DNOP) Dibutyl phthalate (DBP) Bis(2-ethoxyethyl) phthalate (DEEP) Dihexyl phthalate (DHXP) Bis(2-n-butoxyethyl) phthalate (DBEP) Dibenzyl phthalate (DBzP) Diamyl (Diisopentyl) phthalate (DIPP) Diphenyl phthalate (DPhP) Dicyclohexyl phthalate (DCHP) Bis(4-methyl-2-pentyl)phthalate (BMPP)	In-house method GL-FC-11 (LC-MS/MS)
Drinks	Benzene	In-house Method GL-FC-6
Soy and seasoning sauces	3-MCPD	In-house Method GL-FC-4
Oil	Benzo[a]pyrene	In-house Method GL-FC-12 (GC-HRMS)
	Acid value	In-house Method GL-CO-13 Cl. 4.5 (Titration)
	Peroxide value	In-house Method GL-CO-13 Cl. 4.6 (Titration)
Infant and follow-up formula	Benzo[a]pyrene	In-house Method GL-FC-14 (GC-MS/MS)
Turtle jelly	Proline, Hydroxyproline, Lysine, Hydroxylysine	In-house Method GL-CO-45 (LC-MS/MS)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

7/F, Homantin Government Offices, 88 Chung Hau Street, Homantin, Kowloon, Hong Kong.
香港九龍何文田忠孝街八十八號何文田政府合署七樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
General foodstuff	Radionuclides: Iodine-131 Cesium-134 Cesium-137	In-house Method GL-RC-13(A)
	Toxins:-	
Oils, nuts,and cereals	Mycotoxins :-	
	- Aflatoxins B_1, B_2, G_1, G_2	In-house Method GL-TX-1
Dairy products	Aflatoxin M_1	In-house Method GL-TX-2
Cereal and coffee products	Ochratoxin A	In-house Method GL-TX-4
Seafood	Domoic acid	In-house Method GL-TX-5A
Apple Juice	Patulin	In-house Method GL-TX-11 (LC-MS/MS)
Fish and fish products	Histamine	In-house Method GL-TX-7
Shellfish	Okadaic acid (OA) Dinophysistoxins (DTX-1, DTX-2)	In-house Method GL-TX-8 (LC-MS/MS)
	Azaspiracids (AZA-1, AZA-2, AZA-3)	In-house Method GL-TX-10 (LC-MS/MS)
Fish	Ciguatoxins (P-CTX-1, P-CTX-2, P-CTX-3)	In-house Method GL-TX-9 (LC-MS/MS)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

7/F, Homantin Government Offices, 88 Chung Hau Street, Homantin, Kowloon, Hong Kong.
香港九龍何文田忠孝街八十八號何文田政府合署七樓

Miscellaneous 雜類		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Mainstream smoke of cigarettes	Determination of Total and Nicotine-free Dry Particulate Matter Using a Routine Analytical Smoking Machine	ISO 4387:2019 (E)
	Determination of Nicotine in Total Particulate Matter from the Mainstream Smoke	ISO 10315:2021(E)
Biodiesel	Water content	EN ISO 12937: 2000
	Oxidation Stability	EN 14112: 2003
Fuel and petroleum products	Sulphur content	EN ISO 20884: 2004 EN ISO 20884: 2011

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

7/F, Homantin Government Offices, 88 Chung Hau Street, Homantin, Kowloon, Hong Kong.
香港九龍何文田忠孝街八十八號何文田政府合署七樓

Proficiency Testing Providers 能力驗證提供者

PROFICIENCY TESTING SCHEME AND ITEM 能力驗證計劃及項目	MEASURAND OR CHARACTERISTIC MEASURED 測試參數或特質	PROFICIENCY TESTING SCHEME PROCEDURE* 能力驗證計劃程序
Government Laboratory Proficiency Testing Scheme:-		Protocol for Proficiency Testing Scheme (PTPP)
Chinese Herbal Medicine	(a) Organochlorine pesticide residues (b) Elements	
Environmental sample - Sediment	Polynuclear aromatic hydrocarbons	
General Foodstuff	(a) Elements (b) Malachite Green (c) Melamine (d) Organochlorine pesticide residues (e) Radionuclides : Iodine-131 Cesium-134 Cesium-137 (f) Boric acid	
Flour confectionery	Propionic acid	
Biological matrix	Toxicology - drugs in biological matrix	

* INCLUDING PROCEDURES FOR DETERMINING ASSIGNED VALUES AND THE UNCERTAINTY

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

7/F, Homantin Government Offices, 88 Chung Hau Street, Homantin, Kowloon, Hong Kong.
香港九龍何文田忠孝街八十八號何文田政府合署七樓

Reference Material Producers 標準物質生產者

MATRIX 種類	REFERENCE MATERIAL PROPERTY 標準物質的特性	PRODUCTION PLAN NAME 生產計劃名稱	UNCERTAINTY 不確定度 (U_{CRM})*	APPROACH USED FOR PROPERTY VALUES ASSIGNMENT 定值方法
Certified Reference Materials				
				Assigned values are experimentally determined using the following techniques:-
Chinese medicine -Botanical materials	Chemical elements: - Cadmium	RMPP		Isotope dilution inductively coupled plasma mass spectrometry (ID-ICP-MS), Gravimetric standard additions inductively coupled plasma mass spectrometry (GSA-ICP-MS) and Gravimetric standard additions inductively coupled plasma atomic emission spectrometry (GSA-ICP-AES)
	(0.1 to 1 mg/kg)		3 to 8%	
	(2 to 10 mg/kg)		3 to 8%	
	- Lead			
	(0.5 to 5 mg/kg)		4 to 8%	
	(1 to 10 mg/kg)		4 to 8%	
	- Zinc			
	(20 to 100 mg/kg)		4 to 8%	
	- Nickel			
	(10 to 50 mg/kg)		4 to 8%	
	- Arsenic			
	(0.5 to 2 mg/kg)		4 to 8%	
	- Calcium			
	(2 to 100 mg/kg)		3 to 8%	
General foodstuff	Chemical elements: - Arsenic	RMPP		Isotope dilution inductively coupled plasma mass spectrometry (ID-ICP-MS) and Gravimetric standard additions inductively coupled plasma mass spectrometry (GSA-ICP-MS)
	(0.3 to 100 mg/kg)		4 to 8%	
	- Cadmium			
	(0.2 to 10 mg/kg)		3 to 8%	
	- Iron			
	(100 to 1000 mg/kg)		3 to 8%	
	- Zinc			
	(20 to 1000 mg/kg)		3 to 8%	
Food of plant origin	Toxic metal and metalloid species	RMPP		Inductively coupled plasma mass spectrometry (ICP-MS) with gravimetric standard addition
	- Total Arsenic			Isotope dilution high resolution inductively coupled plasma mass spectrometry (ID-HR-ICP-MS)
	(0.05 to 100 mg/kg)		4 to 8%	
	- Cadmium			Ion chromatography - Inductively coupled plasma mass spectrometry (IC-ICP-MS) with gravimetric standard addition
	(0.2 to 10 mg/kg)		3 to 8%	
	- Inorganic Arsenic			
	(0.1 to 10 mg/kg)		8 to 12%	

* Expanded uncertainty of property a value (U_{CRM}) is expressed as a relative expanded uncertainty, calculated using coverage factor of 2, which gives a level of confidence of approximately 95%.

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

7/F, Homantin Government Offices, 88 Chung Hau Street, Homantin, Kowloon, Hong Kong.
香港九龍何文田忠孝街八十八號何文田政府合署七樓

Reference Material Producers 標準物質生產者

MATRIX 種類	REFERENCE MATERIAL PROPERTY 標準物質的特性	PRODUCTION PLAN NAME 生產計劃名稱	UNCERTAINTY 不確定度 (U_{CRM})*	APPROACH USED FOR PROPERTY VALUES ASSIGNMENT 定值方法
Certified Reference Materials				
				Assigned values are experimentally determined using the following techniques:-
Food of plant origin	Pesticides: - Cypermethrin (100 to 500 µg/kg)	RMPP	13%	Isotope dilution gas chromatography- high resolution mass spectrometry (GC-HRMS) and Gas chromatography-tandem mass spectrometry (GC-MS/MS)
Food of plant origin	Pesticides: - Alpha-endosulfan (100 to 1000 µg/kg) - Beta-endosulfan (100 to 1000 µg/kg) - Endosulfan sulphate (100 to 1000 µg/kg)	RMPP	6 to 8% 6 to 8% 6 to 8%	Isotope dilution gas chromatography- negative chemical ionisation-mass spectrometry (GC-NCI-MS) and Gas chromatography electron impact-high resolution mass spectrometry (GC-EI-HRMS)
Chinese medicine - Botanical materials	Pesticides: - α-hexachlorocyclohexane (10 to 1000 µg/kg) - γ-hexachlorocyclohexane (10 to 1000 µg/kg)	RMPP	4 to 10% 4 to 10%	Isotope dilution gas chromatography- negative chemical ionisation-mass spectrometry (GC-NCI-MS) and Isotope dilution gas chromatography tandem mass spectrometry (ID-GC-MS/MS)
Food - Dairy products	Organic contaminants: - Melamine (0.5 to 5 mg/kg)	RMPP	7 to 8%	Isotope dilution liquid chromatography tandem mass spectrometry (ID-LC-MS/MS) and Isotope dilution gas chromatography- mass spectrometry (ID-GC-MS)
Pure substance	Melamine (Purity: 95 - 100%)	RMPP	0.5%	High performance liquid chromatography (HPLC) Liquid chromatography tandem mass spectrometry (LC-MS/MS) Infra-red spectrometry (IR) Gas chromatography mass spectrometry (GC-MS) Inductively coupled plasma mass spectrometry (ICP-MS) Karl Fischer coulometry
Pure substance	Estradiol (Purity: 95 - 100%)	RMPP	0.5%	High performance liquid chromatography (HPLC) Liquid chromatography mass spectrometry (LC-MS) Inductively coupled plasma mass spectrometry (ICP-MS) Gas chromatography mass spectrometry (GC-MS) Karl Fischer coulometry Quantitative Nuclear Magnetic Resonance (qNMR)

* Expanded uncertainty of property a value (U_{CRM}) is expressed as a relative expanded uncertainty, calculated using coverage factor of 2, which gives a level of confidence of approximately 95%.

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

Public Works Central Laboratory Building, Cheung Yip Street, Kowloon Bay, Kowloon, Hong Kong.
香港九龍九龍灣祥業街工務中央試驗所大樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass measurements:		
- Weights used for trade	Calibration for mass in accordance with in-house procedure GL-WM-2 over the following ranges:	
	0.2 g - 20 g	0.4 mg
	above 20 g - 200 g	2 mg
	above 200 g - 2 kg	0.02 g
- Single pan mechanical and electronic balance used for trade	Calibration for mass in accordance with in-house procedure GL-WM-1 over the following ranges:	
	0.2 g to 20 g	90 µg
	above 20 g to 200 g	500 µg
	above 200 g to 1 kg	3 mg
	above 1 kg to 4 kg	20 mg
	above 4 kg to 20 kg	200 mg (Calibration is conducted using OIML Class F1 from 10 mg to 20 kg)

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

Public Works Central Laboratory Building, Cheung Yip Street, Kowloon Bay, Kowloon, Hong Kong.
香港九龍九龍灣祥業街工務中央試驗所大樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Food containers	Toxicology tests :-	
	- Cadmium and Lead in earthenware and vitreous enamel ware	BS 6748: 1986 + A1: 2011 ISO 6486-1: 2019 ISO 6486-2: 1999

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

Public Works Central Laboratory Building, Cheung Yip Street, Kowloon Bay, Kowloon, Hong Kong.
香港九龍九龍灣祥業街工務中央試驗所大樓

Physical and Mechanical Testing 物理及機械測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Pipe, tubing and associated fitting	Physical tests :-	
- Flexible rubber tubing for use in LPG and Towngas low pressure installations	- Bore diameter - Strength, adhesion & stretch test - Resistance to pressure test - Test for resistance to kinking - Test for burning behaviour - Test for resistance to n-pentane and test for flexibility - Test for resistance to crushing - Test for resistance to edible oil - Bending test - Test for ozone resistance	Code of Practice GU01 (Issue 2, 2009) "Testing Method for Approval of Flexible Gas Tubing for Low Pressure Applications" – App. 1 issued by Gas Authority, EMSD, Government of the Hong Kong SAR (Test Method GL-CG-4)
- Metal-braided flexible rubber tubing for use in LPG and Towngas low pressure installations	- Bore diameter - Resistance to pressure test - Test for resistance to kinking - Test for burning behaviour - Test for resistance to n-pentane and test for flexibility - Test for resistance to crushing - Test for resistance to edible oil - Bending test - Test for resistance to cutting - Proof pressure test - Test for resistance to stretch - Test for ozone resistance - Test for resistance to heat - Tensile test	In-house Method GL-CG-5

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

Public Works Central Laboratory Building, Cheung Yip Street, Kowloon Bay, Kowloon, Hong Kong.
香港九龍九龍灣祥業街工務中央試驗所大樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Toys: -	Chemical tests :-	
Category I Toy materials: Dry, brittle, powder like or pliable materials	- Migration of the elements: Aluminium, Antimony, Arsenic, Barium, Boron, Cadmium, Cobalt, Copper, Lead, Manganese, Mercury, Nickel, Selenium, Strontium, Tin and Zinc Chromium (III) (by calculation)	BS EN 71-3:2019 + A1:2021 Technique used: ICP-MS
	Chromium (VI)	Technique used: IC-ICP-MS
	Organic Tin (expressed as TBT) : Methyl tin, Dimethyl tin, Di-*n*-propyl tin, *n*-Butyl tin, Di-*n*-butyl tin, Tri-n-butyl tin, Tetra-*n*-butyl tin, *n*-Octyl tin, Di-*n*-octyl tin, Diphenyl tin, Triphenyl tin	Technique used: GC-MS/MS
Category II Toy materials: Liquid or sticky materials	- Migration of the elements: Aluminium, Antimony, Arsenic, Barium, Boron, Cadmium, Cobalt, Copper, Lead, Manganese, Mercury, Nickel, Selenium, Strontium, Tin and Zinc Chromium (III) (by calculation)	BS EN 71-3:2019 + A1:2021 Technique used: ICP-MS
	Chromium (VI)	Technique used: IC-ICP-MS
	Organic Tin (expressed as TBT) : Methyl tin, Dimethyl tin, Di-*n*-propyl tin, *n*-Butyl tin, Di-*n*-butyl tin, Tri-n-butyl tin, Tetra-*n*-butyl tin, *n*-Octyl tin, Di-*n*-octyl tin, Diphenyl tin, Triphenyl tin	Technique used: GC-MS/MS

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

Public Works Central Laboratory Building, Cheung Yip Street, Kowloon Bay, Kowloon, Hong Kong.
香港九龍九龍灣祥業街工務中央試驗所大樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Toys (Cont'd): -	Chemical tests (Cont'd) :-	
Category III Toy materials: Scraped-off materials	- Migration of the elements: Aluminium, Antimony, Arsenic, Barium, Boron, Cadmium, Cobalt, Copper, Lead, Manganese, Mercury, Nickel, Selenium, Strontium, Tin and Zinc Chromium (III) (by calculation)	BS EN 71-3:2019 + A1:2021 Technique used: ICP-MS
	Chromium (VI)	Technique used: IC-ICP-MS
	Organic Tin (expressed as TBT) : Methyl tin, Dimethyl tin, Di-*n*-propyl tin, *n*-Butyl tin, Di-*n*-butyl tin, Tri-n-butyl tin, Tetra-*n*-butyl tin, *n*-Octyl tin, Di-*n*-octyl tin, Diphenyl tin, Triphenyl tin	Technique used: GC-MS/MS
Plasticised materials in toys and children's products	- Phthalates: Di(2-ethylhexyl) phthalate (DEHP) Di-*n*-butyl phthalate (DBP) Benzyl butyl phthalate (BBP) Di-isononyl phthalate (DINP) Di-isodecyl phthalate (DIDP) Di-*n*-octyl phthalate (DnOP)	In-house Method GL-TY-84 (LC-MS/MS)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

Public Works Central Laboratory Building, Cheung Yip Street, Kowloon Bay, Kowloon, Hong Kong.
香港九龍九龍灣祥業街工務中央試驗所大樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Toys	Flammability tests	BS EN 71-2: 2020 ***<Excluding the following>*** Test for flammable gas

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

Public Works Central Laboratory Building, Cheung Yip Street, Kowloon Bay, Kowloon, Hong Kong.
香港九龍九龍灣祥業街工務中央試驗所大樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Physical and mechanical tests :-	
Toys	Safety requirements and test methods	BS EN 71-1: 2014 + A1:2018 * ***<Excluding the following>*** 4.15.1.3 (dynamic strength), 4.15.1.5, 4.15.5.5, 4.18 (test to EN 15649-3), 4.20.2.5, 4.20.2.8, 4.20.2.11, 4.20.2.12 and 4.26 (test to EN 14682)

* Acoustic tests are conducted at Acoustic Testing Laboratory, 2/F, 323 Java Road, North Point, Hong Kong

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

11/F and 12/F, Lai Chi Kok Government Offices, 19 Lai Wan Road, Lai Chi Kok, Kowloon, Hong Kong.
香港九龍荔枝角荔灣道十九號荔枝角政府合署十一及十二樓

Chemical Testing 化學測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Tests for Dangerous Goods:-	
Aqueous Acids	Anions :- a. Formate b. Chloride c. Fluoride d. Phosphate e. Nitrate f. Sulphate	In-house Method GL-IN-48
Acetic Acid	a. pH test b. Test with lanthanum nitrate solution	In-house Method GL-DG-9
Hydrofluoric Acid	a. pH test b. Test with calcium chloride solution and ferric chloride solution	In-house Method GL-DG-1
Formic Acid	a. pH test b. Test with Tollens reagent c. Test with mercuric chloride solution	In-house Method GL-DG-12
Nitric Acid	a. pH test b. Brown ring test	In-house Method GL-DG-10
Orthophosphoric Acid	a. pH test b. Test with ammonium molybdate solution and benzidine solution	In-house Method GL-DG-13
Perchloric Acid	a. pH test b. Fusion with cadmium chloride and extraction with Brilliant Green	In-house Method GL-DG-14
Sulphuric Acid	a. pH test b. Test with barium rhodizonate	In-house Method GL-DG-7
Calcium Hypochlorite	a. Flame test and test with ammonium ferrocyanide solution b. Test with silver nitrate solution c. Test with thallous sulphate solution d. Available chlorine content	In-house Method GL-DG-3

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

11/F and 12/F, Lai Chi Kok Government Offices, 19 Lai Wan Road, Lai Chi Kok, Kowloon, Hong Kong.
香港九龍荔枝角荔灣道十九號荔枝角政府合署十一及十二樓

Chemical Testing 化學測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Tests for Dangerous Goods (cont'd) :-	
Sodium Hypochlorite Solution	a. Flame test b. Test with silver nitrate solution c. Test with thallous sulphate solution d. Available chlorine content	In-house Method GL-DG-3
Potassium Cyanide and Sodium Cyanide	a. Flame test b. Test with chloramine-T and pyridine-barbituric acid solution c. Cyanides content	In-house Method GL-DG-11
Ammonia	Identification of alkaline gas	In-house Method GL-DG-15
Hydrogen Peroxide Solution	a. Test with diethyl ether and potassium chromate solution b. Hydrogen peroxide content	In-house Method GL-DG-5
Hydrochloric Acid	a. pH test b. Test with silver nitrate solution	In-house Method GL-DG-6
Sodium Hydroxide and Potassium Hydroxide	a. pH test b. Flame test	In-house Method GL-DG-8
Flammable liquids	Flash point a. Less than 23℃ b. 23℃ to 100℃	In-house Method GL-DG-2 (Flash Point)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

11/F and 12/F, Lai Chi Kok Government Offices, 19 Lai Wan Road, Lai Chi Kok, Kowloon, Hong Kong.
香港九龍荔枝角荔灣道十九號荔枝角政府合署十一及十二樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Water and Wastewater .	Microbial Indicators : E. coli count Faecal Coliform count	 DoE (1983) The Bacteriological Examination of Drinking Water Supplies, 1982 Sections 7.8 and 7.9 Membrane Filtration Procedure: Section 7.8, and 7.9.4.2 Bacterial Confirmation: Section 7.9.4.4 and in-situ urease test DoE (1983) The Bacteriological Examination of Drinking Water Supplies, 1982 Sections 7.8 and 7.9 Membrane Filtration Procedure: Sections 7.8, and 7.9.4.2; Bacterial Confirmation: Section 7.7.6.3

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

11/F and 12/F, Lai Chi Kok Government Offices, 19 Lai Wan Road, Lai Chi Kok, Kowloon, Hong Kong.
香港九龍荔枝角荔灣道十九號荔枝角政府合署十一及十二樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Formulated Milk Powder	Microbiological assay:-	
	Vitamin B5 (Pantothenic acid)	In house method GL-CO-41 (AOAC-RI Licence No. 100904)
	Vitamin B7 (Biotin)	In house method GL-CO-30 (AOAC-RI Licence No. 101001)
	Vitamin B9 (Folic acid)	In house method GL-CO-31 (AOAC-RI Licence No. 100903)
	Vitamin B12 (Cobalamins)	In house method GL-CO-32 (AOAC-RI Licence No. 101002)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

11/F and 12/F, Lai Chi Kok Government Offices, 19 Lai Wan Road, Lai Chi Kok, Kowloon, Hong Kong.
香港九龍荔枝角荔灣道十九號荔枝角政府合署十一及十二樓

Pharmaceutical Products 藥物		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Chemical tests :-	
Chlorpheniramine Maleate and Pseudoephedrine Hydrochloride Oral Solution	a. Identification b. Assay	United States Pharmacopeia 2022 (USP-NF 2022)
Pseudoephedrine Hydrochloride Tablets	a. Identification b. Assay	United States Pharmacopeia 2022 (USP-NF 2022)
Clindamycin Phosphate Topical Solution	a. Identification b. Assay	United States Pharmacopeia 2022 (USP-NF 2022)
Clindamycin Injection	a. Identification b. Assay	United States Pharmacopeia 2022 (USP-NF 2022)
Guaifenesin Oral Solution	a. Identification b. Assay	United States Pharmacopeia 2022 (USP-NF 2022)
Guaifenesin Tablets	a. Identification b. Assay	United States Pharmacopeia 2022 (USP-NF 2022)
Chewable Aluminium Hydroxide Tablets	a. Identification b. Neutralising capacity c. Assay d. Uniformity of mass	British Pharmacopoeia 2022(BP 2022)
Indometacin Capsules	a. Identification b. Dissolution c. Related substances d. Assay e. Uniformity of mass	British Pharmacopoeia 2022 (BP 2022)
Phenobarbital Tablets	a. Identification b. Disintegration c. Assay d. Uniformity of mass	British Pharmacopoeia 2016 (BP 2016)
Acetaminophen Tablets	a. Identification b. Assay c. Uniformity of dosage units	United States Pharmacopeia 2022 (USP-NF 2022)
Metformin Tablets	a. Identification b. Assay	British Pharmacopoeia 2022 (BP 2022)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

11/F and 12/F, Lai Chi Kok Government Offices, 19 Lai Wan Road, Lai Chi Kok, Kowloon, Hong Kong.
香港九龍荔枝角荔灣道十九號荔枝角政府合署十一及十二樓

Pharmaceutical Products 藥物		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Chemical tests (cont'd):-	
Methadone Hydrochloride in Methodone Linctus	a. Identification b. Assay	In-house Method GL-PP-16 (HPLC)
Diclofenac Sodium in tablets	a. Identification b. Assay	In-house Method GL-PP-20 (HPLC)
Betamethasone, Betamethasone Dipropionate and Betamethasone 17-Valerate in cream	a. Identification b. Assay	In-house Method GL-PP-22 (HPLC)
Glucosamine in tablets and capsules	a. Identification b. Assay	In-house Method GL-PP-21 (LC-MS/MS)
Oil-based capsules, soft gel, syrup, tablets, capsules	Vitamin D3	In-house Method GL-PP-23 (LC-MS/MS)
Injections	Human Serum Albumin	In-house Method GL-PP-24 (MALDI-TOF/TOF MS)
	Contaminants:	
Pharmaceutical preparations	- Phthalates Di(2-ethylhexyl) phthalate (DEHP) Di-n-octyl phthalate (DNOP) Di-n-butyl phthalate (DNBP) Benzylbutyl phthalate (BBP) Di-isononyl phthalate (DINP) Diisodecyl phthalate (DIDP) Diethyl-phthalate (DEP)	In-house method GL-PP-18 (LC-MS/MS)
Pharmaceutical preparations/injections	Botulinum Neurotoxin A	In-house Method GL-PP-25 (LC-MS/MS)
Electronic Cigarette Liquid	Nicotine	In-house Method GL-PP-26 (LC-MS/MS)
Sartan tablets	N-Nitrosodimethylamine (NDMA)	In-house Method GL-PP-27 (LC-MS/MS, LC-HRMS)
Tablets and Capsules	Elemental impurities:- Arsenic, Cadmium, Lead, Mercury	In-house Method GL-PP-28 (ICP-MS)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

4-5/F and 8/F, 850-870 Lai Chi Kok Road, Cheung Sha Wan, Kowloon, Hong Kong
香港九龍長沙灣荔枝角道 850-870 號四、五及八樓

Chemical Testing 化學測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Seepage samples	Detection of: - Brilliant Scarlet 4R, Orange II, Erythrosin B, Quinine, Tartrazine, Brilliant Blue FCF, Fast Green FCF, Allura Red AC, Eosin Yellowish, Rhodamine WT, Fluorescein Sodium, Sulforhodamine B, Rhodamine B, Sulforhodamine G	In-house method GL-OR-153 (HPLC-DAD/FLD and LC-MS/MS)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部
4-5/F and 8/F, 850-870 Lai Chi Kok Road, Cheung Sha Wan, Kowloon, Hong Kong
香港九龍長沙灣荔枝角道 850-870 號四、五及八樓

Chinese Medicine 中藥		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Chinese Herbal Medicines	Identification of the following species - *Cordyceps sinensis*	In-house Method GL-CO-43 (Polymerase Chain Reaction / DNA Sequencing)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部
4-5/F and 8/F, 850-870 Lai Chi Kok Road, Cheung Sha Wan, Kowloon, Hong Kong
香港九龍長沙灣荔枝角道 850-870 號四、五及八樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
General foodstuff	Preservatives :-	
	- Benzoic acid, sorbic acid, salicylic acid, methyl p-hydroxybenzoate, ethyl p-hydroxybenzoate and propyl p-hydroxybenzoate	In-house Method GL-AD-5(A)
	- Benzoic acid and sorbic acid	In-house Method GL-AD-5(B)
	- Methyl p-hydroxybenzoate, ethyl p-hydroxybenzoate and propyl p-hydroxybenzoate	In-house Method GL-AD-5(C)
	- Propionic acid	In-house Method GL-AD-7
	- Boric acid	In-house Method GL-AD-6(A) In-house Method GL-AD-6(B)
	- Nitrate and Nitrite	In-house Method GL-AD-9(A)
	- Sulphur dioxide	In-house Method GL-AD-8(B) & 8(C) In-house Method GL-AD-8(D)
	Lauric arginate ethyl ester	In-house Method GL-AD-18 (LC-MS/MS)
	Antioxidants :-	
	- BHA, BHT, and gallates	In-house Method GL-AD-14
	Colouring matter :- - Qualitative analysis for Sudan I, Sudan II, Sudan III, Sudan IV, Sudan Orange G,, Sudan Red 7B, Dimethyl Yellow, Oil Yellow XP, Yellow OB	In-house Method GL-AD 12(A)
	- Water-soluble colours	In-house Method GL-AD-13
	Sweeteners :- - Cyclamate - Acesulfame-K, Saccharin, Aspartame, Alitame, Sucralose	In-house Method GL-AD-11(C) In-house Method GL-AD-11(B)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部
4-5/F and 8/F, 850-870 Lai Chi Kok Road, Cheung Sha Wan, Kowloon, Hong Kong
香港九龍長沙灣荔枝角道 850-870 號四、五及八樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
General foodstuff	Parameters for deteriorated food :-	
	- Total volatile nitrogen	In-house Method GL-CP-2
	- pH	In-house Method GL-CP-3
	- Titratable acidity and titratable alkalinity	In-house Method GL-CP-4
	Nutrition labelling:	
	Total fat	In-house Method GL-CO-14 (Acid hydrolysis)
	Protein	In-house Method GL-CO-15 (Kjeldahl method)
	Moisture	In-house Method GL-CO-17 (Thermogravimetry)
	Ash	In-house Method GL-CO-17 (Thermogravimetry)
	Saturated fatty acids ($C_{4:0}$, $C_{6:0}$, $C_{8:0}$, $C_{10:0}$, $C_{12:0}$, $C_{14:0}$, $C_{15:0}$, $C_{16:0}$, $C_{17:0}$, $C_{18:0}$, $C_{20:0}$, $C_{21:0}$, $C_{22:0}$, $C_{23:0}$, $C_{24:0}$)	AOAC Official Method 996.06 (2005) (Hydrolytic extraction gas chromatography)
	Trans fatty acids ($C_{14:1T}$(9-*trans*), $C_{16:1T}$(9-*trans*), $C_{18:1T}$(total), $C_{18:2TT}$(9,12-*trans*), $C_{18:2T}$(9-*cis*,12-*trans*), $C_{18:2T}$(9-*trans*,12-*cis*), $C_{20:1T}$(11-*trans*), $C_{22:1T}$(13-*trans*))	AOAC Official Method 996.06 (2005) (Hydrolytic extraction gas chromatography)
	Monounsaturated fatty acids ($C_{14:1}$ (9-*cis*), $C_{15:1}$ (10-*cis*), $C_{16:1}$ (9-*cis*), $C_{17:1}$ (10-*cis*), $C_{18:1}$ (6-*cis*), $C_{18:1}$ (9-*cis*), $C_{18:1}$ (11-*cis*), $C_{18:1}$ (12-*cis*), $C_{20:1}$ (5-*cis*), $C_{20:1}$ (8-*cis*), $C_{20:1}$ (11-*cis*), $C_{22:1}$ (13-*cis*), $C_{24:1}$ (15-*cis*))	AOAC Official Method 996.06 (2005) (Hydrolytic extraction gas chromatography)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部
4-5/F and 8/F, 850-870 Lai Chi Kok Road, Cheung Sha Wan, Kowloon, Hong Kong
香港九龍長沙灣荔枝角道 850-870 號四、五及八樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
General foodstuff (cont'd)	Nutrition labelling (Cont'd) :	
	Polyunsaturated fatty acids ($C_{18:2}$ (9,12-*cis*), $C_{18:3}$ (6,9,12-*cis*), $C_{18:3}$ (9,12,15-*cis*), $C_{20:2}$ (11,14-*cis*), $C_{20:3}$ (8,11,14-*cis*), $C_{20:3}$ (11,14,17-*cis*) $C_{20:4}$ (5,8,11,14-*cis*), $C_{22:2}$ (13,16-*cis*) $C_{20:5}$ (5,8,11,14,17-*cis*), $C_{22:3}$ (13,16,19-*cis*) $C_{22:4}$ (7,10,13,16-*cis*), $C_{22:5}$ (4,7,10,13,16-*cis*), $C_{22:5}$ (7,10,13,16,19-*cis*), $C_{22:6}$ (4,7,10,13,16,19-*cis*))	AOAC Official Method 996.06 (2005) (Hydrolytic extraction gas chromatography)
	Sugars :- glucose, galactose, fructose, sucrose, maltose, lactose	In-house Method GL-CO-20 (HPLC-RI)
	Cholesterol	AOAC Official Method 994.10 (2005) (GC-FID)
	Total Dietary Fibre	AOAC Official Method 985.29 (2005) (Enzymatic-Gravimetric Method)
	Energy and Carbohydrates	In-house method GL-CO-54 (by calculation)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部
4-5/F and 8/F, 850-870 Lai Chi Kok Road, Cheung Sha Wan, Kowloon, Hong Kong
香港九龍長沙灣荔枝角道 850-870 號四、五及八樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Milk and dairy products	Composition and quality of milk :-	
	- Total solids	In-house Method GL-CO-10(A)
	- Milk fat	In-house Method GL-CO-10(A)
	- Titratable acidity	In-house Method GL-CO-10(A)
	Composition of dried milk :-	
	- Moisture	In-house Method GL-CO-1(A)
	- Fat	In-house Method GL-CO-1(A)
	Composition of evaporated and condensed milk :-	
	- Total solids	In-house Method GL-CO-11(A)
	- Fat	In-house Method GL-CO-11(A)
	- Sucrose	In-house Method GL-CO-11(A)
	Composition of ice-cream :-	
	- Milk solids not fat	In-house Method GL-CO-12(A)
	- Fat	In-house Method GL-CO-12(A)
	- Sucrose	In-house Method GL-CO-12(A)
	Composition and quality of cream :-	
	- Fat, acidity	In-house Method GL-CO-7
	Composition of cheese and butter :-	
	- Fat, total solids, moisture	In-house Method GL-CO-8

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部
4-5/F and 8/F, 850-870 Lai Chi Kok Road, Cheung Sha Wan, Kowloon, Hong Kong
香港九龍長沙灣荔枝角道 850-870 號四、五及八樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Formulated Milk Powder	Composition: -	
	Vitamin A (all-trans-retinol)	In-house method GL-CO-52 (HPLC-FID)
	Vitamin B1 (Thiamine)	In house method GL-CO-25 (HPLC-FLD)
	Vitamin B2 (Riboflavin)	In house method GL-CO-26 (HPLC-FLD)
	Vitamin B3 (Niacin)	In house method GL-CO-27 (HPLC-UV)
	Vitamin B5 (Pantothenic acid)	In house method GL-CO-28 (HPLC- UV)
	Vitamin B6 (Pyridoxine)	In house method GL-CO-29 (HPLC-FLD)
	Vitamin B7 (Biotin and Biocytin)	In house method GL-CO-42 (LC-MS/MS)
	Vitamin C (Ascorbic acid)	In-house Method GL-CO-47 (HPLC-UV and HPLC-FLD)
	Vitamin E (α-tocopherol)	In house method GL-CO-35 (HPLC-FLD)
	Vitamin K (Phylloquinone)	In house method GL-CO-36 (HPLC-FLD)
	Chloride	In house method GL-CO-40 (Titration)
	Choline	In house method GL-CO-37 (LC-MS/MS)
	Myo-Inositol	In-house Method GL-CO-49 (LC-MS/MS)
	L-Carnitine	In house method GL-CO-38 (LC-MS/MS)
	Taurine	In-house Method GL-CO-46 (HPLC)
	Fluoride	In-house Method GL-CO-48 (Ion selective electrode)
Formulated powder and food for infants and young children	Vitamins D2 (Ergocalciferol) and D3 (Cholecalciferol)	In-house Method GL-CO-51 (LC-MS/MS)
Food for infants and young children	All-trans-retinol, 12-cis-retinal, Beta-carotene	In-house Method GL-CO-53 (HPLC and LC-MS/MS)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部
4-5/F and 8/F, 850-870 Lai Chi Kok Road, Cheung Sha Wan, Kowloon, Hong Kong
香港九龍長沙灣荔枝角道 850-870 號四、五及八樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Tests for genetically modified organisms (GMO): -	
	The laboratory has been accredited to modify and validate methods for GMO testing in food matrices [Remark : the list of items below about determination of GM contents in food matrices may not be exhaustive. For the most up-to-date list, please contact the HKAS Executive.]	In-house Protocol TD/MWI/039 and TD/MWI/041
Soy, maize, rice, papaya, tomato and their derived foodstuff	Qualitative screening of transgenic traits using part of the sequence of :- - CaMV 35S promoter - NOS terminator from *Agrobacterium tumefaciens*	In-house Methods GL-GM-18 and GL-GM-20 (Polymerase Chain Reaction/Gel Electrophoresis)
Soy and soy derived foodstuff	Qualitative screening of transgenic trait Roundup Ready Soya (RRS) using part of the sequence of :- - Le1 gene - CaMV 35S promoter & CTP sequence of *P. hybrida* EPSPS gene - EPSPS gene from CP4 strain & NOS-terminator	In-house Methods GL-GM-18 and GL-GM-20 (Polymerase Chain Reaction/Gel Electrophoresis)
Maize and maize derived foodstuff	Qualitative screening of transgenic trait Bt176 using part of the sequence of:- - MHMG gene - Maize CDPK promoter & synthetic cryIA (b) gene	In-house Methods GL-GM-18 and GL-GM-20 (Polymerase Chain Reaction/Gel Electrophoresis)
	Qualitative screening of transgenic trait Bt11 using part of the sequence of:- - MHMG gene - IVS2 from adh 1-1S & synthetic pat gene - IVS6 from adh 1-1S & synthetic cryIA (b) gene	

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部
4-5/F and 8/F, 850-870 Lai Chi Kok Road, Cheung Sha Wan, Kowloon, Hong Kong
香港九龍長沙灣荔枝角道 850-870 號四、五及八樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Maize and maize derived foodstuff (cont'd)	Tests for GMO (cont'd): - Qualitative screening of transgenic trait MON810 using part of the sequence of:- - MHMG gene - junction of host maize genome & enhanced CaMV 35S promoter - hsp70 & synthetic cryIA (b) gene Qualitative screening of transgenic trait GA21 using part of the sequence of:- - MHMG gene - OTP & m-EPSPS gene from maize Qualitative screening of transgenic trait T25 using part of the sequence of:- - MHMG gene - pat gene from *Streptomyces viridochromogene* & terminator from the 35S gene from CaMV Qualitative screening of transgenic trait TC1507 using part of the sequence of:- - MHMG gene - TC1507 specific sequence Qualitative screening of transgenic trait NK603 using part of the sequence of:- - MHMG gene - Maize genome/rice actin 1 promoter - 3' insert-to-plant junction Qualitative screening of transgenic trait CBH351 using part of the sequence of:- - MHMG gene - CBH351 specific sequence Qualitative screening of transgenic trait MON863 using part of the sequence of:- - MHMG gene - 5' insert-to-plant junction	In-house Methods GL-GM-18 and GL-GM-20 (Polymerase Chain Reaction/Gel Electrophoresis)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

4-5/F and 8/F, 850-870 Lai Chi Kok Road, Cheung Sha Wan, Kowloon, Hong Kong
香港九龍長沙灣荔枝角道 850-870 號四、五及八樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Tests for GMO (cont'd): -	
Papaya and papaya derived foodstuff	Qualitative screening of transgenic papaya line 55-1 using part of the sequence of:- - Papain gene - NOS-terminator and CaMV-35S promoter - CaMV-35S and GUS gene	In-house Methods GL-GM-18 and GL-GM-20 (Polymerase Chain Reaction/Gel Electrophoresis)
Rice and rice derived foodstuff	Qualitative screening of transgenic trait LLRICE62 using part of the sequence of:- - P35S::bar DNA - 3' insert-to-plant junction - SPS gene	In-house Methods GL-GM-18 and GL-GM-20 (Polymerase Chain Reaction/Gel Electrophoresis)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部
4-5/F and 8/F, 850-870 Lai Chi Kok Road, Cheung Sha Wan, Kowloon, Hong Kong
香港九龍長沙灣荔枝角道 850-870 號四、五及八樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Soy and soy derived foodstuff	Tests for GMO (cont'd): - Qualitative screening of transgenic trait Roundup Ready Soya (RRS) using part of the sequence of :- - Le1 gene - 5' insert-to-plant junction Qualitative screening of transgenic trait MON89788 using part of the sequence of :- - Le1 gene - 5' insert-to-plant junction Qualitative screening of transgenic trait A2704-12 using part of the sequence of :- - Le1 gene - Junction between a 3' bla sequence and a 5' bla sequence Qualitative screening of transgenic trait DP-356043-5 using part of the sequence of :- - Le1 gene - 5' insert-to-plant junction Qualitative screening of transgenic trait DP-305423-1 using part of the sequence of :- - Le1 gene - 3' insert-to-plant junction Qualitative screening of transgenic trait DAS-44406-6 using part of the sequence of:- - Le1 gene - 5' insert-to-plant junction Qualitative screening of transgenic trait DAS-68416-4 using part of the sequence of:- - Le1 gene - 3' insert-to-plant junction Qualitative screening of transgenic trait DAS-81419-2 using part of the sequence of:- - Le1 gene - 5' insert-to-plant junction	In-house Methods GL-GM-18 and GL-GM-20 (Real-time PCR method)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部
4-5/F and 8/F, 850-870 Lai Chi Kok Road, Cheung Sha Wan, Kowloon, Hong Kong
香港九龍長沙灣荔枝角道 850-870 號四、五及八樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Tests for GMO (cont'd): -	
Soy and soy derived foodstuff	Qualitative screening of transgenic trait MON87708 using part of the sequence of:- - Le1 gene - 3' insert-to-plant junction Qualitative screening of transgenic trait A5547-127 using part of the sequence of:- - Le1 gene - 5' insert-to-plant junction Qualitative screening of transgenic trait FG72 using part of the sequence of:- - Le1 gene - 3' insert-to-plant junction	In-house Methods GL-GM-18 and GL-GM-20 (Real-time PCR method)
Maize and maize derived foodstuff	Qualitative screening of transgenic trait Bt176 using part of the sequence of:- - Zm Adh1 gene - 3' insert-to-plant junction Qualitative screening of transgenic trait Bt11 using part of the sequence of:- - Zm Adh1 gene - 5' insert-to-plant junction Qualitative screening of transgenic trait MON810 using part of the sequence of:- - MHMG gene - 5' insert-to-plant junction Qualitative screening of transgenic trait GA21 using part of the sequence of:- - MHMG gene - 5' insert-to-plant junction Qualitative screening of transgenic trait T25 using part of the sequence of:- - Zm Adh1 gene - 3' insert-to-plant junction	In-house Methods GL-GM-18 and GL-GM-20 (Real-time PCR method)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部
4-5/F and 8/F, 850-870 Lai Chi Kok Road, Cheung Sha Wan, Kowloon, Hong Kong
香港九龍長沙灣荔枝角道 850-870 號四、五及八樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Maize and maize derived foodstuff	Tests for GMO (cont'd): - Qualitative screening of transgenic trait TC1507 using part of the sequence of:- - MHMG gene - TC1507 specific sequence Qualitative screening of transgenic trait NK603 using part of the sequence of:- - Zm Adh1 gene - 3' insert-to-plant junction Qualitative screening of transgenic trait CBH351 using part of the sequence of:- - Zm Adh1 gene - 3' insert-to-plant junction Qualitative screening of transgenic trait MON863 using part of the sequence of:- - MHMG gene - 5' insert-to-plant junction Qualitative screening of transgenic trait 3272 using part of the sequence of:- - MHMG gene - 5' insert-to-plant junction Qualitative screening of transgenic trait MIR604 using part of the sequence of:- - Zm Adh1 gene - 5' insert-to-plant junction Qualitative screening of transgenic trait MON88017 using part of the sequence of:- - MHMG gene - 3' insert-to-plant junction Qualitative screening of transgenic trait DAS-59122 using part of the sequence of:- - MHMG gene - insert-to-plant junction	In-house Methods GL-GM-18 and GL-GM-20 (Real-time PCR method)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部
4-5/F and 8/F, 850-870 Lai Chi Kok Road, Cheung Sha Wan, Kowloon, Hong Kong
香港九龍長沙灣荔枝角道 850-870 號四、五及八樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Maize and maize derived foodstuff (cont'd)	Tests for GMO (cont'd): - Qualitative screening of transgenic trait MON89034 using part of the sequence of:- - MHMG gene - 3' insert-to-plant junction Qualitative screening of transgenic trait MIR162 using part of the sequence of:- - Zm Adh1 gene - 3' insert-to-plant junction Qualitative screening of transgenic trait DAS-40278-9 using part of the sequence of:- - MHMG gene - 5' insert-to-plant junction Qualitative screening of transgenic trait 98140 using part of the sequence of:- - MHMG gene - 5' insert-to-plant junction Qualitative screening of transgenic trait MON87427 using part of the sequence of:- - MHMG gene - 5' insert-to-plant junction Qualitative screening of transgenic trait 5307 using part of the sequence of:- - Zm Adh1 gene - 3' insert-to-plant junction Qualitative screening of transgenic trait DP-004114-3 using part of the sequence of:- - MHMG gene - 5' insert-to-plant junction Qualitative screening of transgenic trait MON87411 using part of the sequence of:- - MHMG gene - 3' insert-to-plant junction	In-house Methods GL-GM-18 and GL-GM-20 (Real-time PCR method)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部
4-5/F and 8/F, 850-870 Lai Chi Kok Road, Cheung Sha Wan, Kowloon, Hong Kong
香港九龍長沙灣荔枝角道 850-870 號四、五及八樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Tests for GMO (cont'd): -	
Maize and maize derived foodstuff (cont'd)	Qualitative screening of transgenic trait MON87460 using part of the sequence of:- - MHMG gene - 5' insert-to-plant junction	In-house Methods GL-GM-18 and GL-GM-20 (Real-time PCR method)
Rapeseed and rapeseed derived foodstuff	Qualitative screening of transgenic trait DP-073496-4 using part of the sequence of:- - FatA(A) gene - 5' insert-to-plant junction Qualitative screening of transgenic trait GT73/RT73 using part of the sequence of:- - CruA gene - 3' insert-to-plant junction	In-house Methods GL-GM-18 and GL-GM-20 (Real-time PCR method)
Rice and rice derived foodstuff	Qualitative screening of transgenic trait Bt63 using part of the sequence of:- - RBE-4 gene - 3' insert-to-plant junction Qualitative screening of transgenic trait LLRICE62 using part of the sequence of:- - PLD gene - 3' insert-to-plant junction	In-house Methods GL-GM-18 and GL-GM-20 (Real-time PCR method)
Soy, maize, potato, rapeseed and their derived foodstuff	Qualitative screening of transgenic traits using part of the sequence of :- - CaMV 35S promoter - NOS terminator from *Agrobacterium tumefaciens* - -	In-house Methods GL-GM-18 and GL-GM-20 (Real-time PCR method)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部
4-5/F and 8/F, 850-870 Lai Chi Kok Road, Cheung Sha Wan, Kowloon, Hong Kong
香港九龍長沙灣荔枝角道 850-870 號四、五及八樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Soy and soy derived foodstuff	Tests for GMO (cont'd): - Quantitative tests of transgenic trait Roundup Ready Soya (RRS) using part of the sequence of :- - Le1 gene - 5' insert-to-plant junction Quantitative tests of transgenic trait Roundup Ready Soya (RRS) using part of the sequence of :- - The junction between CTP4 from *P. hydrida* And EPSPS gene Quantitative tests of transgenic trait MON89788 using part of the sequence of :- - Le1 gene - 5' insert-to-plant junction Quantitative tests of transgenic trait A2704-12 using part of the sequence of :- - Le1 gene - Junction between a 3' bla sequence and a 5' bla sequence Quantitative tests of transgenic trait DP-356043-5 using part of the sequence of :- - Le1 gene - 5' insert-to-plant junction Quantitative tests of transgenic trait DP-305423-1 using part of the sequence of :- - Le1 gene - 3' insert-to-plant junction Quantitative tests of transgenic trait DAS-44406-6 using part of the sequence of:- - Le1 gene - 5' insert-to-plant junction Quantitative test of transgenic trait DAS-68416-4 using part of the sequence of:- - Le1 gene - 3' insert-to-plant junction	In-house Methods GL-GM-19 and GL-GM-20 (Real-time PCR method)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部
4-5/F and 8/F, 850-870 Lai Chi Kok Road, Cheung Sha Wan, Kowloon, Hong Kong
香港九龍長沙灣荔枝角道 850-870 號四、五及八樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Tests for GMO (cont'd): -	
Soy and soy derived foodstuff (cont'd)	Quantitative test of transgenic trait DAS-81419-2 using part of the sequence of:- - Le1 gene - 5' insert-to-plant junction	In-house Methods GL-GM-19 and GL-GM-20 (Real-time PCR method)
	Quantitative tests of transgenic trait FG72 using part of the sequence of:- - Le1 gene - 3' insert-to-plant junction	
	Quantitative tests of transgenic trait MON87708 using part of the sequence of:- - Le1 gene - 3' insert-to-plant junction	
	Quantitative tests of transgenic trait A5547-127 using part of the sequence of:- - Le1 gene - 5' insert-to-plant junction	
Maize and maize derived foodstuff	Quantitative tests of transgenic trait Bt176 using part of the sequence of:- - Zm Adh1 gene - 3' insert-to-plant junction	In-house Methods GL-GM-19 and GL-GM-20 (Real-time PCR method)
	Quantitative tests of transgenic trait Bt11 using part of the sequence of:- - Zm Adh1 gene - 5' insert-to-plant junction	
	Quantitative tests of transgenic trait MON810 using part of the sequence of:- - MHMG gene - 5' insert-to-plant junction	
	Quantitative tests of transgenic trait MON810 using part of the sequence of:- - The junction between hsp70 gene and synthetic cryIA(b) gene	

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部
4-5/F and 8/F, 850-870 Lai Chi Kok Road, Cheung Sha Wan, Kowloon, Hong Kong
香港九龍長沙灣荔枝角道 850-870 號四、五及八樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Maize and maize derived foodstuff	Tests for GMO (cont'd): - Quantitative tests of transgenic trait TC1507 using part of the sequence of:- - MHMG gene - TC1507 specific sequence Quantitative tests of transgenic trait NK603 using part of the sequence of:- - Zm Adh1 gene - 3' insert-to-plant junction Quantitative tests of transgenic trait GA21 using part of the sequence of:- - MHMG gene - 5' insert-to-plant junction Quantitative tests of transgenic trait MON863 using part of the sequence of:- - MHMG gene - 5' insert-to-plant junction Quantitative tests of transgenic trait 3272 using part of the sequence of:- - MHMG gene - 5' insert-to-plant junction Quantitative tests of transgenic trait MIR604 using part of the sequence of:- - Zm Adh1 gene - 5' insert-to-plant junction Quantitative tests of transgenic trait MON88017 using part of the sequence of:- - MHMG gene - 3' insert-to-plant junction Quantitative tests of transgenic trait DAS-59122 using part of the sequence of:- - MHMG gene - insert-to-plant junction	In-house Methods GL-GM-19 and GL-GM-20 (Real-time PCR method)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部
4-5/F and 8/F, 850-870 Lai Chi Kok Road, Cheung Sha Wan, Kowloon, Hong Kong
香港九龍長沙灣荔枝角道 850-870 號四、五及八樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Maize and maize derived foodstuff (cont'd)	Tests for GMO (cont'd): - Quantitative tests of transgenic trait MON89034 using part of the sequence of:- - MHMG gene - 3' insert-to-plant junction Quantitative tests of transgenic trait MIR162 using part of the sequence of:- - Zm Adh1 gene - 3' insert-to-plant junction Quantitative test of transgenic trait DAS-40278-9 using part of the sequence of:- - MHMG gene - 5' insert-to-plant junction Quantitative test of transgenic trait 98140 using part of the sequence of:- - MHMG gene - 5' insert-to-plant junction Quantitative test of transgenic trait MON87427 using part of the sequence of:- - MHMG gene - 5' insert-to-plant junction Quantitative tests of transgenic trait DP-004114-3 using part of the sequence of:- - MHMG gene - 5' insert-to-plant junction Quantitative tests of transgenic trait MON87411 using part of the sequence of:- - MHMG gene - 3' insert-to-plant junction Quantitative tests of transgenic trait MON87460 using part of the sequence of:- - MHMG gene - 5' insert-to-plant junction	In-house Methods GL-GM-19 and GL-GM-20 (Real-time PCR method)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部
4-5/F and 8/F, 850-870 Lai Chi Kok Road, Cheung Sha Wan, Kowloon, Hong Kong
香港九龍長沙灣荔枝角道 850-870 號四、五及八樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Tests for GMO (cont'd): -	
Maize and maize derived foodstuff (cont'd)	Quantitative tests of transgenic trait 5307 using part of the sequence of:- - Zm Adh1 gene - 3' insert-to-plant junction	In-house Methods GL-GM-19 and GL-GM-20 (Real-time PCR method)
Rapeseed and rapeseed derived foodstuff	Quantitative tests of transgenic trait DP-073496-4 using part of the sequence of:- - FatA(A) gene - 5' insert-to-plant junction Quantitative tests of transgenic trait GT73/RT73 using part of the sequence of:- - CruA gene - 3' insert-to-plant junction	In-house Methods GL-GM-19 and GL-GM-20 (Real-time PCR method)
Rice and rice derived foodstuff	Quantitative tests of transgenic trait Bt63 using part of the sequence of:- - RBE-4 gene - 3' insert-to-plant junction Quantitative test of transgenic trait LLRICE62 using part of the sequence of:- - PLD gene - 3' insert-to-plant junction	In-house Methods GL-GM-19 and GL-GM-20 (Real-time PCR method)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

4-5/F and 8/F, 850-870 Lai Chi Kok Road, Cheung Sha Wan, Kowloon, Hong Kong
香港九龍長沙灣荔枝角道 850-870 號四、五及八樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Molluscs	Identification of the following species - *Concholepas concholepas* - *Melo melo* - *Cymbium pepo* - *Cymbium cymbium* - *Cymbium tritonis* - *Hemifusus colosseus* - *Dosidicus gigas* - *Haliotis discus (to genus level)* - *Haliotis rufescens (to genus level)*	In-house Method GL-CO-18 (Polymerase Chain Reaction / DNA Sequencing)
Fish	- *Ruvettus pretiosus* - *Lepidocybium flavobrunneum* - *Pollachius virens* - *Merluccius merluccius* - *Merlangius merlangus* - *Melanogrammus aeglefinus* - *Sphyrna mokarran* - *Sphyrna tudes* - *Variola albimarginata* - *Plectropomus leopardus* - *Plectropomus areolatus* - *Larimichthys crocea* - *Carcharhinus longimanus* - *Sphyrna lewini* - *Sphyrna zygaena* - *Chiloscyllium plagiosum* - *Carcharhinus sorrah* - *Dissostichus eleginoides* - *Dissostichus mawsoni*	
Turtle-related products	Detection of turtle DNA (Reptiles of the order Testudines)	In-house Method GL-CO-44 (Polymerase Chain Reaction)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

4/F, West Wing, Public Health Laboratory Centre, 382 Nam Cheong Street, Kowloon, Hong Kong.
香港九龍南昌街三百八十二號公共衛生檢測中心四樓西翼

Chinese Medicine 中藥		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Proprietary Chinese Medicines and Chinese Herbal Medicines	Pesticides residues:- Organochlorine pesticides- Aldrin, Dieldrin, Endrin, *cis*-Chlordane, *trans*-Chlordane, Oxychlordane, Heptachlor, *cis*-Heptachlor epoxide, Hexachlorocyclohexane isomers (alpha-, beta- and delta-BHC) , Lindane, Hexachlorobenzene, Methyl pentachlorophenyl sulphide, Pentachloroaniline, Quintozene (pentachloronitrobenzene), 2,4'-DDT, 4,4'-DDT, 4,4'-DDE and 4,4'-DDD. Organophosphorus pesticides - Acephate, Dichlorvos, Omethoate, Diazinon, Dimethoate, Ethion, Malathion, Methidathion, Isocarbophos, Triazophos, Parathion, Monocrotophos, Chlorpyrifos, Trichlorfon, Methamidophos, Phosphamidon and Parathion-methyl	In-house method GL-CM-2 (GC)
Chinese Herbal Medicines	Organochlorine pesticides :- Aldrin, Dieldrin, Endrin, *cis*-Chlordane, *trans*-Chlordane, Oxychlordane, Heptachlor, *cis*-Heptachlor epoxide, Hexachlorocyclohexane isomers (alpha-, beta- and delta-BHC) , Lindane, Hexachlorobenzene, Methyl pentachlorophenyl sulphide, Pentachloroaniline, Quintozene (pentachloronitrobenzene), 2,4'-DDT, 4,4'-DDT, 4,4'-DDE and 4,4'-DDD.	In-house method GL-CM-18 (GC-MS/MS) In-house method GL-CM-19 (GC-MS/MS Screening)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

4/F, West Wing, Public Health Laboratory Centre, 382 Nam Cheong Street, Kowloon, Hong Kong.
香港九龍南昌街三百八十二號公共衞生檢測中心四樓西翼

Chinese Medicine 中藥		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Chinese Herbal Medicines	Organochlorine pesticides :- Aldrin Dieldrin Endrin *cis*-Chlordane *trans*-Chlordane oxychlordane Heptachlor *cis*-Heptachlor epoxide α-Hexachlorocyclohexane β-Hexachlorocyclohexane γ-Hexachlorocyclohexane (Lindane) δ-Hexachlorocyclohexane Hexachlorobenzene Quintozene (pentachloronitrobenzene) Pentachloroaniline Methyl pentachlorophenyl sulphide 4,4'-DDT *(p,p'*-DDT) 2,4'-DDT (*o,p'*-DDT) 4,4'-DDE (*p,p'*-DDE) 4,4'-DDD (*p,p'*-TDE) α-Endosulfan β-Endosulfan Endosulfan sulphate Nitrofen *o,p'*-Dicofol *p,p'*-Dicofol Chlordane (Sum of *cis*-chlordane, *trans*-chlordane and oxychlordane) Heptachlor (Sum of heptachlor and *cis*-heptachlor expoxide) Hexachlorocyclohexane (Sum of alpha-, beta-, gamma-, and delta-BHC, expressed as BHC) Quintozene (Sum of quintozene, pentachloroaniline and methyl pentachlorophenyl sulphide) DDT [Sum of 2,4'-DDT (o,p'-DDT), 4,4'-DDT (p,p'-DDT), 4,4'-DDE (p,p'-DDE) and 4,4'-DDD (p,p'-TDE), expressed as DDT] Endosulfan (Sum of alpha-Endosulfan, beta-Endosulfan and Endosulfan sulphate, expressed as Endosulfan) Dicofol (Sum of o,p'-Dicofol and p,p'-Dicofol, expressed as Dicofol)	In-house method GL-CM-31 (GC-MS/MS Screening) In-house method GL-CM-32 (GC-MS/MS)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

4/F, West Wing, Public Health Laboratory Centre, 382 Nam Cheong Street, Kowloon, Hong Kong.
香港九龍南昌街三百八十二號公共衛生檢測中心四樓西翼

Chinese Medicine 中藥		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Chinese Herbal Medicines	Pesticide residues:- Acephate Aldicarb Aldicarb sulfone Aldicarb sulfoxide Cadusafos Carbofuran Carbofuran-3-hydroxy Chlordimeform Chlorpyrifos Chlorsulfuron Coumaphos Demeton (Sum of Demeton-S and Demeton-O) Diazinon Dichlorvos Dimethoate Ethametsulfuron-methyl Ethion Ethoprophos Fenamiphos Fenamiphos sufone Fenamiphos sulfoxide Fipronil Fipronil desulfinyl Fipronil sulfone Fipronil sulfide Fonofos Isazofos Isocarbophos Isofenphos-methyl Malathion Methamidophos Methidathion Metsulfuron-methyl Monocrotophos Omethoate Parathion Parathion-methyl Phorate Phorate sulfone Phorate sulfoxide	In-house method GL-CM-33 (LC-MS/MS Screening) In-house method GL-CM-34 (LC-MS/MS)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

4/F, West Wing, Public Health Laboratory Centre, 382 Nam Cheong Street, Kowloon, Hong Kong.
香港九龍南昌街三百八十二號公共衛生檢測中心四樓西翼

Chinese Medicine 中藥		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Chinese Herbal Medicines (cont'd)	Pesticide residues (cont'd):- Phosfolan Phosfolan-methyl Phosphamidon Sulfotep Terbufos Terbufos sulfone Terbufos sulfoxide Triazophos Trichlorfon Aldicarb (Sum of Aldicarb, Aldicarb sulfone and Aldicarb sulfoxide, expressed as Aldicarb) Carbofuran (Sum of Carbofuran, and Carbofuran-3- hydroxy, expressed as Carbofuran) Fenamiphos (Sum of Fenamiphos, Fenamiphos sulfone and Fenamiphos sulfoxide, expressed as Fenamiphos) Fipronil (Sum of Fipronil, Fipronil desulfinyl, Fipronil sulfone and Fipronil sulfide, expressed as Fipronil) Phorate (Sum of Phorate, Phorate sulfone and Phorate sulfoxide, expressed as Phorate) Terbufos (Sum of Terbufos, Terbufos sulfone and Terbufos sulfoxide, expressed as Terbufos)	In-house method GL-CM-33 (LC-MS/MS Screening) In-house method GL-CM-34 (LC-MS/MS)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

4/F, West Wing, Public Health Laboratory Centre, 382 Nam Cheong Street, Kowloon, Hong Kong.
香港九龍南昌街三百八十二號公共衛生檢測中心四樓西翼

Chinese Medicine 中藥		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Proprietary Chinese Medicines	Organochlorine pesticides :- Aldrin, Dieldrin, Endrin, *cis*-Chlordane, *trans*-Chlordane, Oxychlordane, Heptachlor, *cis*-Heptachlor epoxide, Hexachlorocyclohexane isomers (alpha-, beta- and delta-BHC), Lindane (gamma-BHC), Hexachlorobenzene, Methyl pentachlorophenyl sulphide, Pentachloroaniline, Quintozene (pentachloronitrobenzene), 2,4'-DDT (o,p'-DDT), 4,4'-DDT (p,p'-DDT), 4,4'-DDE (p,p'-DDE), and 4,4'-DDD (p,p'-TDE).	In-house method GL-CM-24 (GC-MS/MS Screening) In-house method GL-CM-25 (GC-MS/MS)
Chinese Herbal Medicines and Chinese Herbal Medicines Decocted Liquid	Organophosphorus pesticides- Acephate, Dichlorvos, Omethoate, Diazinon, Dimethoate, Ethion, Malathion, Methidathion, Isocarbophos, Triazophos, Parathion, Monocrotophos, Chlorpyrifos, Trichlorfon, Methamidophos, Phosphamidon, Parathion-methyl and Phorate	In-house method GL-CM-23 (LC-MS/MS Screening) In-house method GL-CM-30 (LC-MS/MS)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

4/F, West Wing, Public Health Laboratory Centre, 382 Nam Cheong Street, Kowloon, Hong Kong.
香港九龍南昌街三百八十二號公共衛生檢測中心四樓西翼

Chinese Medicine 中藥		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Proprietary Chinese Medicines and Chinese Herbal Medicines	Aconitum alkaloids:- Aconitine Hypaconitine Mesaconitine Yunaconitine Crassicauline A Solanaceous alkaloids:- Atropine Scopolamine Anisodine Anisodamine Strychnos alkaloids:- Brucine Strychnine	In-house Method GL-CM-16 (LC-MS/MS)
Chinese Herbal Medicines	Sulphur Dioxide	In-house Method GL-CM-26 (Titration) In-house Method GL-CM-28 (Headspace GC-TCD)
Chinese Herbal Medicines	Aflatoxins (B1, B2, G1, G2 and their total)	In-house Method GL-CM-29 (LC-MS/MS)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

4/F, West Wing, Public Health Laboratory Centre, 382 Nam Cheong Street, Kowloon, Hong Kong.
香港九龍南昌街三百八十二號公共衛生檢測中心四樓西翼

Chinese Medicine 中藥		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Proprietary Chinese Medicines	Chemical markers (Identification):- Verbascoside Salvianolic acid B Hesperidin Baicalin Baicalein Glycyrrhizic acid Wogonin Prim-*O*-glucosylcimifugin Nodakenin 5-*O*-Methylvisamminoside Isorhynchophylline Imperatorin Z-Ligustilide Isoimperatorin Levistilide A Tanshinone IIA Ginsenoside Rf Ginsenoside Rg_1 Ginsenoside Re Ginsenoside Rb_1 Saikosaponin A Saikosaponin D Ferulic acid α-Pinene Isoborneol Borneol Menthol Cinnamic aldehyde Catalpol Gastrodin Chlorogenic acid Amygdalin Ginsenoside Ro Tenuifolin Rhein Cholic acid 6-Gingerol Deoxycholic acid Phellodendrine Polygalaxanthone III β-Ecdysterone Peimisine Peiminine	In-house Method GL-CM-17 (LC-MS/MS, LC-QTOF MS & GC-MS/MS)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

4/F, West Wing, Public Health Laboratory Centre, 382 Nam Cheong Street, Kowloon, Hong Kong.
香港九龍南昌街三百八十二號公共衛生檢測中心四樓西翼

Chinese Medicine 中藥		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Proprietary Chinese Medicines	Chemical markers (Identification) (Cont'd) :- Lobetyolin Forsythin Columbianadin Berberine Dracorhodin Osthole Costunolide Dehydrocostus lactone Deoxyschizandrin Betulinic acid Oleanolic acid Ursolic acid Glycine Paeonol Alisol B 23-acetate Astragaloside IV Atractylodin Patchouli alcohol, Perillaldehyde Echinocystic acid Genkwanin Harpagoside Honokiol Magnolol Naringin Ricinoleic acid Alpha-Cyperone Anisaldehyde Arecoline Asarinin Curcumin Gentiopicrin Linarin Luteolin Magnolin Mangiferin Mulberrin Piperine Muscone Quercetin-3-O-beta-D-gentiobioside Stachydrine Synephrine Tetrahydropalmatine	In-house Method GL-CM-17 (LC-MS/MS, LC-QTOF MS & GC-MS/MS)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

4/F, West Wing, Public Health Laboratory Centre, 382 Nam Cheong Street, Kowloon, Hong Kong.
香港九龍南昌街三百八十二號公共衛生檢測中心四樓西翼

Chinese Medicine 中藥		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Proprietary Chinese Medicines	Chemical markers (Identification & Quantification):- Paeoniflorin	In-house Method GL-CM-17 (LC-MS/MS, LC-QTOF MS & GC-MS/MS)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

4/F, West Wing, Public Health Laboratory Centre, 382 Nam Cheong Street, Kowloon, Hong Kong.
香港九龍南昌街三百八十二號公共衛生檢測中心四樓西翼

Chinese Medicine 中藥		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Proprietary Chinese Medicines and Health Products	Drug Adulteration:- 2,4-dinitrophenol Aminotadalafil Amoxicillin Ampicillin Aspirin Atenolol Atorvastatin Benzylsibutramine Betamethasone Bisacodyl Celecoxib Cetirizine Chlorpheniramine Cimetidine Cinnarizine Clobetasol proprionate Clotrimazole Cyproheptadine Dexamethasone Diclofenac Diphenoxylate DMAA (1,3-dimethylamylamine) Domperidone Erythromycin Etoricoxib Fenfluramine Finasteride Fluoxetine Frusemide Gemfibrozil Glibenclamide Gliclazide Glimepiride Glipizide Hydrochlorothiazide Hydrocortisone Ibuprofen Indomethacin Loperamide Loratadine Lorcaserin Losartan	In-house method GL-CM-5 (LC-MS/MS) In-house method GL-CM-20 (LC-MS/MS Screening)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

4/F, West Wing, Public Health Laboratory Centre, 382 Nam Cheong Street, Kowloon, Hong Kong.
香港九龍南昌街三百八十二號公共衛生檢測中心四樓西翼

Chinese Medicine 中藥		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Proprietary Chinese Medicines and Health Products	Drug Adulteration (Cont'd):- Mazindol Mefenamic acid Metformin Metoprolol Metronidazole Miconazole Minoxidil Montelukast N,N-didesmethylsibutramine Naproxen N-desmethylsibutramine Nifedipine N-nitrosofenfluramine Omeprazole Orlistat Paracetamol Pentoxifylline Phenformin Phenolphthalein Phentermine Phenylbutazone Pioglitazone Piroxicam Prednisolone Prednisone Propranolol Pseudovardenafil Ranitidine Repaglinide Rosiglitazone Salbutamol Sibutramine Sildenafil Simvastatin Sitagliptin Tadalafil Tetracycline Theophylline Thyroxine Tolbutamide Triamcinolone Vardenafil	In-house method GL-CM-5 (LC-MS/MS) In-house method GL-CM-20 (LC-MS/MS Screening)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

4/F, West Wing, Public Health Laboratory Centre, 382 Nam Cheong Street, Kowloon, Hong Kong.
香港九龍南昌街三百八十二號公共衛生檢測中心四樓西翼

Chinese Medicine 中藥		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Proprietary Chinese Medicines and Health Products	Drug Adulteration (Cont'd):- Aminopyrine Amlodipine Caffeine Colchicine Betamethasone-17-valerate Betamethasone-21-valerate Betamethasone dipropionate Beclomethasone dipropionate Dexamethasone acetate Enalapril Fluocinolone acetonide Ketoconazole Lincomycin Metoclopramide Prednisone acetate Pyridoxine Thiamine Tretinoin Triamcinolone acetonide Topiramate Yohimbine Cannabidiol	In-house method GL-CM-5 (LC-MS/MS) In-house method GL-CM-20 (LC-MS/MS Screening)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

Room 206 & 207, Biotech Centre 1, Hong Kong Science Park, Shatin, Hong Kong.
香港新界沙田香港科學園生物科技中心一座 206 及 207 室

Chinese Medicine 中藥		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Chinese Herbal Medicines	Aflatoxins:- B_1, B_2, G_1 and G_2	In-house method GL-CM-4 (HPLC)
Chinese Herbal Medicines - Herba Ephedrae	Physicochemical identification Thin Layer Chromatography identification HPLC fingerprinting Assay: Ephedrine and Pseudoephedrine	Hong Kong Chinese Materia Medica Standards Volume 2

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

Room 206 & 207, Biotech Centre 1, Hong Kong Science Park, Shatin, Hong Kong.
香港新界沙田香港科學園生物科技中心一座 206 及 207 室

Chinese Medicine 中藥		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Proprietary Chinese Medicines and Health Products	Drug Adulteration:- 2,4-dinitrophenol Aminotadalafil Amoxicillin Ampicillin Aspirin Atenolol Atorvastatin Benzylsibutramine Betamethasone Bisacodyl Celecoxib Cetirizine Chlorpheniramine Cimetidine Cinnarizine Clobetasol proprionate Clotrimazole Cyproheptadine Dexamethasone Diclofenac Diphenoxylate DMAA (1,3-dimethylamylamine) Domperidone Erythromycin Etoricoxib Fenfluramine Finasteride Fluoxetine Frusemide Gemfibrozil Glibenclamide Gliclazide Glimepiride Glipizide Hydrochlorothiazide Hydrocortisone Ibuprofen Indomethacin Loperamide Loratadine Lorcaserin Losartan	In-house method GL-CM-5 (LC-MS/MS) In-house method GL-CM-20 (LC-MS/MS Screening)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

Room 206 & 207, Biotech Centre 1, Hong Kong Science Park, Shatin, Hong Kong.
香港新界沙田香港科學園生物科技中心一座 206 及 207 室

Chinese Medicine 中藥		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Proprietary Chinese Medicines and Health Products	Drug Adulteration (Cont'd):- Mazindol Mefenamic acid Metformin Metoprolol Metronidazole Miconazole Minoxidil Montelukast N,N-didesmethylsibutramine Naproxen N-desmethylsibutramine Nifedipine N-nitrosofenfluramine Omeprazole Orlistat Paracetamol Pentoxifylline Phenformin Phenolphthalein Phentermine Phenylbutazone Pioglitazone Piroxicam Prednisolone Prednisone Propranolol Pseudovardenafil Ranitidine Repaglinide Rosiglitazone Salbutamol Sibutramine Sildenafil Simvastatin Sitagliptin Tadalafil Tetracycline Theophylline Thyroxine Tolbutamide Triamcinolone Vardenafil	In-house method GL-CM-5 (LC-MS/MS) In-house method GL-CM-20 (LC-MS/MS Screening)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

Room 206 & 207, Biotech Centre 1, Hong Kong Science Park, Shatin, Hong Kong.
香港新界沙田香港科學園生物科技中心一座 206 及 207 室

Chinese Medicine 中藥		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Proprietary Chinese Medicines and Health Products	Drug Adulteration (Cont'd):- Aminopyrine Amlodipine Caffeine Colchicine Betamethasone-17-valerate Betamethasone-21-valerate Betamethasone dipropionate Beclomethasone dipropionate Dexamethasone acetate Enalapril Fluocinolone acetonide Ketoconazole Lincomycin Metoclopramide Prednisone acetate Pyridoxine Thiamine Tretinoin Triamcinolone acetonide Topiramate Yohimbine Cannabidiol	In-house method GL-CM-5 (LC-MS/MS) In-house method GL-CM-20 (LC-MS/MS Screening)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

800 Victoria Road, Pokfulam, Hong Kong.
香港薄扶林域多利道八百號

Chemical Testing 化學測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Animal Urine	Veterinary Drug Residues :-	
	- Beta-agonist : Clenbuterol, Salbutamol	In-house Method GL-VD-19 (LC-MS/MS)
	- Chloramphenicol	In-house Method GL-VD-23 (LC-MS/MS)
Organic materials	Purity of organic compounds with molecular weight between 75 – 1000 g/mol	In-house method GL-RM-11 (qNMR)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

800 Victoria Road, Pokfulam, Hong Kong.
香港薄扶林域多利道八百號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Animal feed	Veterinary drug residues :-	
	- Beta-agonists: - Clenbuterol Salbutamol	In-house Method GL-VD-4 (ELISA and LC-MS/MS)
	- Chloramphenicol	In-house Method GL-VD-7 (ELISA and LC-MS/MS)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

800 Victoria Road, Pokfulam, Hong Kong.
香港薄扶林域多利道八百號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Pesticide and Veterinary Drug Residues :-	
	The laboratory has been accredited to modify and validate methods for the determination of pesticide and veterinary residues in food matrices. [Remark : the list of items below about determination of pesticide and veterinary drug residues in food matrices may not be exhaustive. For the most up-to-date list, please contact the HKAS Executive.]	In-house protocol RE/SWM/4
General foodstuff	Pesticide residues : - Organochlorines : Alpha-BHC (Alpha-HCH) Beta-BHC (Beta-HCH) Gamma-BHC (Lindane/Gamma-HCH) Delta-BHC (Delta-HCH) o,p'-DDE p,p'-DDE o,p'-TDE (o,p'-DDD) p,p'-TDE (p,p'-DDD) Aldrin Dichlobenil (Dichlorbenil) Dieldrin alpha-Endosulfan beta-Endosulfan Endrin cis-Heptachlor epoxide trans-Heptachlor epoxide Heptachlor Hexachlorobenzene Methoxychlor (4,4'-Methoxychlor) Mirex Oxychlordane Procymidone Tetradifon Trifluralin Vinclozolin	In-house Method GL-OR-134 (GC-MS/MS, LC-MS/MS Screening)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

800 Victoria Road, Pokfulam, Hong Kong.
香港薄扶林域多利道八百號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
General foodstuff (cont'd)	Pesticide residues : (cont'd) 2,4'-DDT 4,4'-DDT cis-Chlordane trans-Chlordane Endosulfan sulfate Dicofol Chlorothalonil (Chlorthalonil) Chlorfenapyr Quintozene (Pentachloronitrobenzene / PCNB) Pentachloroaniline (PCA) Methyl pentachlorophenyl sulphide (Pentachlorothioanisole / MPCPS) Pentachlorobenzene - N-methylcarbamates : Aldicarb sulfoxide Aldoxycarb (Aldicarb sulfone) Butocarboxim Metolcarb Carbonfuran Carbaryl Isoprocarb Promecarb Oxamyl Methomyl Aldicarb Propoxur Bendiocarb Ethiofencarb Methiocarb 3-Hydroxycarbofuran - Pyrethroids : Bifenthrin Cyfluthrin Cyhalothrin Cypermethrin Deltamethrin Fenpropathrin Fenvalerate Permethrin	In-house Method GL-OR-134 (GC-MS/MS, LC-MS/MS Screening) (cont'd)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

800 Victoria Road, Pokfulam, Hong Kong.
香港薄扶林域多利道八百號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
General foodstuff (cont'd)	Pesticide residues : (cont'd) - Organophosphorus Acephate Azinphos methyl Carbophenothion Chlorfenvinphos Chlorpyrifos methyl Chlorpyrifos Coumaphos Crufomate Diazinon Dichlorvos (DDVP) Dimethoate Disulfoton (Disulfonton) Edifenphos Ethion Ethoprophos Fenamiphos Fenchlorphos Fenitrothion Fensulfothion Fenthion Isocarbophos Isofenphos Malathion Methamidophos Methidathion Mevinphos Monocrotophos Omethoate Parathion (Parathion ethyl) Parathion methyl Phenthoate Phorate Phosalone Phosmet Phosphamidon Pirimiphos methyl	In-house Method GL-OR-134 (GC-MS/MS, LC-MS/MS Screening) (cont'd)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

800 Victoria Road, Pokfulam, Hong Kong.
香港薄扶林域多利道八百號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
General foodstuff (cont'd)	Pesticide residues : (cont'd) - Organophosphorus Profenophos Prothiofos (Prothiophos) Pyrazophos Quinalphos Sulfotep Tetrachlorvinphos Triazophos Trichlorfon	In-house Method GL-OR-134 (GC-MS/MS, LC-MS/MS Screening) (cont'd)
Fruit, vegetables and aquatic products	Pesticide residues : - Organochlorines : Methoxychlor (4,4'-Methoxychlor) Alpha-BHC (Alpha-HCH) Beta-BHC (Beta-HCH) Gamma-BHC (Lindane/Gamma-HCH) Delta-BHC (Delta-HCH) o,p'-DDT p,p'-DDT p,p'-TDE p,p'-DDE o,p'-DDE - Organophosphorus : Azinphos Methyl Chlorpyrifos Chlorpyrifos methyl Dimethoate Methidathion	In-house Method GL-OR-137 (GC-MS/MS, LC-MS/MS)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

800 Victoria Road, Pokfulam, Hong Kong.
香港薄扶林域多利道八百號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Fruit, vegetables and aquatic products (cont'd)	Pesticide residues : - N-methylcarbamates : Aldicarb sulfoxide Aldoxycarb (Aldicarb sulfone) Butocarboxim Metolcarb Carbonfuran Carbaryl Isoprocarb Promecarb Oxamyl Methomyl Aldicarb Propoxur Bendiocarb Ethiofencarb Methiocarb 3-Hydroxycarbofuran - Pyrethroids : Bifenthrin Cyfluthrin Cyhalothrin Cypermethrin Deltamethrin Fenpropathrin Fenvalerate Permethrin	In-house Method GL-OR-137 (GC-MS/MS, LC-MS/MS) (cont'd)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

800 Victoria Road, Pokfulam, Hong Kong.
香港薄扶林域多利道八百號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
General foodstuff	Pesticide residues :- (Pesticides and definition related compounds) 2-(Thiocyanomethyl-thio)benzothiazole (TCMTB) Avermectin B1a + Avermectin B1a 8,9Z + Avermectin B1b Acephate Acetamiprid Acetamiprid-N-desmethyl (N1-[(6-chloro-3-pyridyl)methyl]-N2-cyano-acetamidine) Acibenzolar-S-methyl Acifluorfen Alachlor Aldicarb Aldicarb sulfone Aldicarb sulfoxide Ametryn Amitraz Semiamitraz (N-(2,4-dimethylphenyl)-N'-methylformamidine) Anilazine Atrazine Azinphos Methyl Azoxystrobin Benalaxyl Bendiocarb 3-Hydroxycarbofuran Benfuracarb Carbofuran Bensulfuron methyl Bentazone Bifenthrin Bioresmethrin Bispyribac sodium Bitertanol Boscalid Bromacil Bromoxynil	In-house Method GL-OR-140 (Screening by LC-MS/MS)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

800 Victoria Road, Pokfulam, Hong Kong.
香港薄扶林域多利道八百號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
General foodstuff (cont'd)	Pesticide residues :- (Pesticides and definition related compounds) (cont'd) Buprofezin Butachlor Butafenacil Butocarboxim Butylate Cadusafos Carbaryl Carbendazim Thiophanate-methyl Carbophenothion Carbosulfan Carboxin Carfentrazone (carfentrazone-chloropropionic acid / alpha, 2-dichloro-5-[-4-difluoromethyl)-4,5-dihydro-3-methyl-5-oxo-1H-1,2,4-triazol-1-yl]-4-fluorobenzenepropanoic acid) Carfentrazone ethyl Chlorantraniliprole Chlorbenzuron Chlorfenviphos Chlorimuron ethyl Chlorpropham Chlorpyrifos Chlorpyrifos Methyl Chlorsulfuron Chlortoluron Clodinafop Clodinafop-propargyl Clofencet Clofentezine Clomazone Clothianidin Coumaphos	In-house Method GL-OR-140 (Screening by LC-MS/MS) (cont'd)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

800 Victoria Road, Pokfulam, Hong Kong.
香港薄扶林域多利道八百號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
General foodstuff (cont'd)	Pesticide residues :- (Pesticides and definition related compounds) (cont'd) Coumaphos oxon (O,O-diethyl O-3- chloro-4-methyl-2-oxo-2H-1- benzopyran-7-yl phosphate) Crufomate Cyclanilide Cycloate Cyfluthrin Cyhalothrin Cymoxanil Cypermethrin Cyproconazole Cyprodinil Deltamethrin Desmedipham Diazinon Dichlofluanid Dichlorvos / DDVP Diclofop Diclofop-methyl Dicloran Diclosulam Dicrotophos Difenoconazole Difenzoquat Diflubenzuron Dimethenamid Dimethoate Dimethomorph Diniconazole Dinotefuran Diphenylamine Disulfoton Diuron Dodine	In-house Method GL-OR-140 (Screening by LC-MS/MS) (cont'd)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

800 Victoria Road, Pokfulam, Hong Kong.
香港薄扶林域多利道八百號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
General foodstuff (cont'd)	Pesticide residues :- (Pesticides and definition related compounds) (cont'd) Edifenphos Emamectin B1a + Emamectin B1b Endosulfan sulphate Ethametsulfuron methyl Ethiofencarb Ethion Ethoprophos Ethoxyquin Etofenprox Etoxazole Famoxadone 5-methyl-5-phenylhydantoin (2,4-imidazolidinedione, 5-methyl-5-phenyl / RPA 717879) Fenamidone Fenamiphos Fenamiphos sulphone Fenamiphos sulphoxide Fenarimol Fenbuconazole Fenhexamid Fenitrothion Fenobucarb (BPMC) 6-Chlorobenzoxazol-2(3H)-one (6-chloro- 2,3-dihydrobenzoxazol-2-one) Fenoxaprop ([2-[4-](6-chloro-2-benzoxazoly)oxy]phenoxy]propanoic acid) Fenoxaprop ethyl Fenpropathrin Fenpropimorph Fenpyroximate Fensulfothion Fenthion Fenthion oxon Fenthion oxon sulphone Fenthion oxon sulphoxide	In-house Method GL-OR-140 (Screening by LC-MS/MS) (cont'd)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

800 Victoria Road, Pokfulam, Hong Kong.
香港薄扶林域多利道八百號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
General foodstuff (cont'd)	Pesticide residues :- (Pesticides and definition related compounds) (cont'd) Fenthion sulphone Fenthion sulphoxide Fenvalerate Fipronil Fipronil sulfone (5-amino-3-cyano-1-(2,6-dichloro-4-trifluoromethylphenyl)-4-trifluoromethylsulphonylpyrazole / MB 46136) Flonicamid Florasulam Fluazifop acid Fluazifop-butyl Fluazifop-P-butyl Fluazinam Flubendiamide Flucythrinate 2,2-difluoro-1,3-benzodioxole-4-carboxylic acid Fludioxonil Flufenacet Flufenoxuron Flufenpyr ethyl Flumethrin Flumetsulam Flumiclorac pentyl Flumioxazin Fluometuron Fluopicolide 2-(trifluoromethyl)benzamide Fluopyram Fluridone Fluroxypyr Flusilazole Fluthiacet methyl Flutolanil Flutriafol Fluvalinate	In-house Method GL-OR-140 (Screening by LC-MS/MS) (cont'd)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

800 Victoria Road, Pokfulam, Hong Kong.
香港薄扶林域多利道八百號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
General foodstuff (cont'd)	Pesticide residues :- (Pesticides and definition related compounds) (cont'd) Fomesafen Fonofos Forchlorfenuron Formetanate hydrochloride Fosthiazate Halosulfuron methyl Haloxyfop Hexythiazox Hymexazol Imazalil Imazamethabenz methyl Imazapyr Imazethapyr Imazosulfuron Imidacloprid Indoxacarb Iodosulfuron-methyl Sodium Ipconazole Iprodione Isocarbophos Isofenphos Isofenphos-methyl Isoprocarb Isoprothiolane Isoxaben Kresoxim methyl Lactofen Linuron Malathion Mandipropamid Mepronil 2,4-DNOP (2,4-Dinitro-6-(1-methylheptyl)phenol) Meptyldinocap Mesosulfuron methyl Mesotrione	In-house Method GL-OR-140 (Screening by LC-MS/MS) (cont'd)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

800 Victoria Road, Pokfulam, Hong Kong.
香港薄扶林域多利道八百號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
General foodstuff (cont'd)	Pesticide residues :- (Pesticides and definition related compounds) (cont'd) Metaflumizone Metalaxyl Metconazole Methamidophos Methidathion Methiocarb Methiocarb sulphone Methiocarb sulphoxide Methomyl Thiodicarb Methoprene Methoxyfenozide Metolachlor Metolcarb Metrafenone Metribuzin Metsulfuron methyl Mevinphos Molinate Monocroptophos Myclobutanil Dichlorvos (DDVP / 2,2-dichlorovinyl dimethyl phosphate) Naled Napropamide Naptalam Nicosulfuron Norflurazon Norflurazon desmethyl (4-chloro- 5-(amino)-2-alpha, alpha, alphatrifluoro- m-tolyl)-3(3H)-pyridazinone) Novaluron Omethoate Orthosulfamuron Oryzalin Oxadiazon Oxamyl Oxamyl oxime	In-house Method GL-OR-140 (Screening by LC-MS/MS) (cont'd)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

800 Victoria Road, Pokfulam, Hong Kong.
香港薄扶林域多利道八百號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
General foodstuff (cont'd)	Pesticide residues :- (Pesticides and definition related compounds) (cont'd) Demeton-S-methyl Demeton-S-methylsulphone Oxydemeton-methyl Oxyfluorfen Paclobutrazol Parathion (Parathion Ethyl) Parathion Methyl Penconazole Pendimethalin Penoxsulam Permethrin Phenmedipham Phenthoate Phorate Phorate oxon Phorate oxon sulphone Phorate oxon sulphoxide Phorate sulphone Phorate sulphoxide Phosalone Phosmet N-desethyl-phosphamidon Phosphamidon Phoxim Piperonyl butoxide Pirimicarb Pirimphos methyl Pretilachlor Primisulfuron methyl Prochloraz Profenofos Prometryn Propachlor Propamocarb Propanil	In-house Method GL-OR-140 (Screening by LC-MS/MS) (cont'd)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

800 Victoria Road, Pokfulam, Hong Kong.
香港薄扶林域多利道八百號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
General foodstuff (cont'd)	Pesticide residues :- (Pesticides and definition related compounds) (cont'd) Propargite Atrazine-desethyl (2-amino-4-chloro-6-isopropylamino- s -triazine) Atrazine-desethyl-desisopropyl (2,4-diamino-6-chloro- s -triazine) Propazine Propiconazole Propoxur Propoxycarbazone Propyzamide Prosulfuron Prothioconazole-desthio Prothiofos Pymetrozine Pyraclostrobin Pyrazophos Pyrethrum – Cinerin 1 Pyrethrum – Cinerin 2 Pyrethrum – Jasmolin 1 Pyrethrum – Jasmolin 2 Pyrethrum – Pyrethrin 1 Pyrethrum – Pyrethrin 2 Pyridaben Pyridalyl 6-chloro-3-phenyl-pyridazine-4-ol Pyridate 4'-Hydroxy Pyrimethanil (4-((4,6-dimethyl-2-pyrimidinyl)amino)phenol / 2-(4-hydroxyanilino)-4,6-dimethylpyrimidine) Pyrimethanil Pyriproxyfen Pyrithiobac sodium Pyroxsulam Quinalphos Quinclorac Quinoxyfen	In-house Method GL-OR-140 (Screening by LC-MS/MS) (cont'd)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

800 Victoria Road, Pokfulam, Hong Kong.
香港薄扶林域多利道八百號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
General foodstuff (cont'd)	Pesticide residues :- (Pesticides and definition related compounds) (cont'd) Quizalofop Quizalofop ethyl Quizalofop methyl Rimsulfuron Saflufenacil Sethoxydim Atrazine-desethyl-desisopropyl (2,4-diamino-6-chloro-s-triazine) Atrazine-desisopropyl (2-amino-4-chloro-6-ethylamino-s-triazine) Simazine Spinetoram (Major component + Minor component) Spinosyn A + Spinosyn D Spirodiclofen Spiromesifen Spiromesifen metabolite M01 (Spiromesifen-alcohol / 4-hydroxy-3-(2,4,6-trimethylphenyl)-1-oxaspiro[4.4]non-3-en-2-one) Spirotetramat Spirotetramat Metabolite (BYI08330-cis-enol / 3-(2,5-dimethylphenyl)-4-hydroxy-8-methoxy-1-azaspiro[4.5]dec-3-en-2-one) Spiroxamine Sulfotep Tebuconazole Tebufenozide Teflubenzuron Cyhalothric acid ((Z)-3-(2-chloro-3,3,3-trifluroro-1-propenyl)-2,2-dimethylcyclopropanecarboxylic acid) Tembotrione Tembotrione metabolite AE 1417268 (2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl]-4,6-dihydroxycyclohexane-1,3-dione)	In-house Method GL-OR-140 (Screening by LC-MS/MS) (cont'd)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

800 Victoria Road, Pokfulam, Hong Kong.
香港薄扶林域多利道八百號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
General foodstuff (cont'd)	Pesticide residues :- (Pesticides and definition related compounds) (cont'd) Terbufos Terbufos oxon Terbufos oxon sulphone Terbufos oxon sulphoxide Terbufos sulphone Terbufos sulphoxide Tetrachlorvinphos Tetraconazole 5-Hydroxythiabendazole Thiabendazole Thiacloprid Thiamethoxam Thidiazuron Thiencarbazone methyl Thifensulfuron methyl Thiocyclam Tolclofos methyl Tolylfluanid Topramezone Tralkoxydim Triadimefon Triadimenol Triasulfuron Triazophos Tribenuron methyl Tribufos Trichlorfon 3,5,6-trichloro-2-pyridinol Triclopyr Tricyclazole Trifloxystrobin Trifloxysulfuron Triflumizole Triflusulfuron methyl Triticonazole Uniconazole Vamidothion Zoxamide	In-house Method GL-OR-140 (Screening by LC-MS/MS) (cont'd)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

800 Victoria Road, Pokfulam, Hong Kong.
香港薄扶林域多利道八百號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Fruit and Vegetables	Pesticide residues :- (Pesticides and definition related compounds) 2-(Thiocyanomethylthio)benzothiazole (TCMTB) 2-Phenylphenol Acibenzolar-s-methyl Aldrin Dieldrin Ametryn Atrazine Benalaxyl Benfluralin Bifenthrin Boscalid Bromacil Bromopropylate Butachlor Butafenacil Cadusafos Captan Carboxin Carfentrazone-ethyl Chlorantraniliprole cis-Chlordane Oxy-Chlordane trans-Chlordane Chlorfenapyr Chlorpropham Chlorpyrifos Chlorpyrifos methyl Clodinafop-propargyl Clomazone Coumaphos Cycloate Cyhalothrin Cyprodinil o,p'-DDT p,p'-DDD p,p'-DDE p,p'-DDT	In-house Method GL-OR-144 (Screening by GC-TOF-MS)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

800 Victoria Road, Pokfulam, Hong Kong.
香港薄扶林域多利道八百號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Fruit and Vegetables (cont'd)	Pesticide residues :- (Pesticides and definition related compounds) (cont'd) Diazinon 2,6-Dichlorobenzamide Dichlobenil Diclofop-methyl Dicloran Dimethenamid Dimethipin Dimethoate Diniconazole Diphenylamine Disulfoton alpha-Endosulfan beta-Endosulfan Endosulfan Sulfate Endrin Endrin ketone Ethalfluralin Ethion Ethoprophos Etofenprox Etoxazole Fenamidone Fenarimol Fenchlorphos Fenitrothion Fenoxaprop-ethyl Fenpropathrin Fenpropimorph Fenthion Fenvalerate Fipronil Flonicamid Fluazifop-butyl Flufenpyr-ethyl Flumiclorac pentyl Fluopicolide Fluopyram	In-house Method GL-OR-144 (Screening by GC-TOF-MS) (cont'd)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

800 Victoria Road, Pokfulam, Hong Kong.
香港薄扶林域多利道八百號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Fruit and Vegetables (cont'd)	Pesticide residues :- (Pesticides and definition related compounds) (cont'd) Flusilazole Flutolanil Flutriafol Folpet Fonofos Fthalide cis-Heptachlor epoxide Heptachlor trans-Heptachlor epoxide Hexachlorobenzene alpha-BHC beta-BHC delta-BHC gamma-BHC Hexythiazox Imazamethabenz-methyl Isofenphos Kresoxim methyl Lactofen Malathion Mepronil Metconazole Methidathion Methoxychlor Metolachlor Metrafenone Mevinphos Mirex Napropamide Nitrapyrin Norflurazon Norflurazon-desmethyl o,p'-DDD o,p'-DDE Oxyfluorfen	In-house Method GL-OR-144 (Screening by GC-TOF-MS) (cont'd)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

800 Victoria Road, Pokfulam, Hong Kong.
香港薄扶林域多利道八百號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Fruit and Vegetables (cont'd)	Pesticide residues :- (Pesticides and definition related compounds) (cont'd) Parathion Parathion methyl Penconazole Pendimethalin Pentachloroaniline Pentachlorobenzene Pentachlorothioanisole Permethrin Phenthoate Phosalone Pirimiphos Methyl Pretilachlor Procymidone Profenofos Prometryn Propachlor Propanil Atrazine-desethyl Propazine Propiconazole Propyzamide Prothiofos Pyridalyl Pyrimethanil Pyriproxyfen Quinalphos Quinoxyfen Quintozene Atrazine-desisopropyl Spirodiclofen Sulfotep Tecnazene Tefluthrin Terbufos Terbufos sulphone Tetraconazole	In-house Method GL-OR-144 (Screening by GC-TOF-MS) (cont'd)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

800 Victoria Road, Pokfulam, Hong Kong.
香港薄扶林域多利道八百號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Fruit and Vegetables (cont'd)	Pesticide residues :- (Pesticides and definition related compounds) (cont'd) Tetradifon Tolclofos-methyl Tolylfluanid Triazophos Tribufos Trifloxystrobin Trifluralin Uniconazole Vinclozolin Zoxamide	In-house Method GL-OR-144 (Screening by GC-TOF-MS) (cont'd)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

800 Victoria Road, Pokfulam, Hong Kong.
香港薄扶林域多利道八百號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Fruits, vegetables and egg products	Pesticide residues: Acephate Acetamiprid Acetamiprid-N-desmethyl (N1-[(6-chloro-3-pyridyl)methyl]-N2-cyano-acetamidine) Acibenzolar-S-methyl Acifluorfen Alachlor Aldicarb Aldicarb sulfone Aldicarb sulfoxide Atrazine Benalaxyl Bensulfuron methyl Bifenthrin Bioresmethrin Bitertanol Boscalid Buprofezin Butachlor Butafenacil Cadusafos Carbaryl Carbofuran 3-Hydroxycarbofuran Carfentrazone ethyl Chlorantraniliprole	In-house Method GL-OR-149 (LC-MS/MS)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部
800 Victoria Road, Pokfulam, Hong Kong.
香港薄扶林域多利道八百號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Fruits, vegetables and egg products (cont'd)	Pesticide residues: (cont'd) Chlorimuron ethyl Chlorpropham Chlorpyrifos Chlorpyrifos Methyl Chlorsulfuron Chlortoluron Clodinafop-propargyl Clomazone Clothianidin Coumaphos Cyfluthrin Cyhalothrin Cyprodinil Deltamethrin Diazinon Dichlorvos Dicrotophos Diflubenzuron Dimethoate Dimethomorph Diniconazole Dinotefuran Diphenylamine Ethametsulfuron methyl Ethion Ethoprophos Etoxazole Famoxadone Fenamiphos Fenamiphos sulphone Fenamiphos sulphoxide Fenarimol Fenbuconazole Fenhexamid Fenobucarb Fenoxaprop ethyl	In-house Method GL-OR-149 (LC-MS/MS) (cont'd)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

800 Victoria Road, Pokfulam, Hong Kong.
香港薄扶林域多利道八百號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Fruits, vegetables and egg products (cont'd)	Pesticide residues: (cont'd) Fenpropathrin Fenpropimorph Fenpyroximate Fenthion Fenthion sulphone Fenthion sulphoxide Fenvalerate Fipronil Fipronil sulfone Florasulam Fluazifop-butyl Fluazinam Flubendiamide Flufenoxuron Flumethrin Flumetsulam Flumiclorac pentyl Flumioxazin Fluopicolide 2-(trifluoromethyl)benzamide Fluopyram Flutriafol Fluvalinate Fomesafen Fonofos Formetanate hydrochloride Fosthiazate Halosulfuron methyl Hexythiazox Imazalil Indoxacarb Iodosulfuron-methyl Sodium Iprodione Isocarbophos Isofenphos-methyl Isoprocarb Isoprothiolane Kresoxim methyl Lactofen Malathion	In-house Method GL-OR-149 (LC-MS/MS) (cont'd)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部
800 Victoria Road, Pokfulam, Hong Kong.
香港薄扶林域多利道八百號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Fruits, vegetables and egg products (cont'd)	Pesticide residues: (cont'd) Mandipropamid Mepronil Mesosulfuron methyl Mevinphos Molinate Monocroptophos Myclobutanil Nicosulfuron Norflurazon Novaluron Omethoate Oxamyl Oxamyl oxime Demeton-S-methyl Demeton-S-methylsulphone Oxydemeton-methyl Oxyfluorfen Paclobutrazol Parathion Parathion Methyl Penconazole Pendimethalin Permethrin Phenmedipham Phenthoate Phorate Phorate sulphone Phorate sulphoxide Phosalone Phosmet Piperonyl butoxide Pirimphos methyl Pretilachlor Profenofos Propanil Propargite Atrazine-desethyl Atrazine-desethyl-desisopropyl Propazine Propiconazole	In-house Method GL-OR-149 (LC-MS/MS) (cont'd)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部
800 Victoria Road, Pokfulam, Hong Kong.
香港薄扶林域多利道八百號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Fruits, vegetables and egg products (cont'd)	Pesticide residues: (cont'd) Prothioconazole-desthio Prothiofos Pyraclostrobin Pyridaben Pyrimethanil Pyriproxyfen Quinalphos Quizalofop ethyl Quizalofop methyl Atrazine-desisopropyl Spinetoram (Major component) Spinetoram (Minor component) Spirodiclofen Spiromesifen Spiromesifen metabolite M01 Spirotetramat Spiroxamine Tebuconazole Tebufenozide Teflubenzuron Terbufos Terbufos sulphone Terbufos sulphoxide Tetraconazole Thiacloprid Tolclofos methyl Tralkoxydim Triadimefon Triadimenol Triasulfuron Triazophos Tribenuron methyl Tribufos Tricyclazole Trifloxystrobin Vamidothion Zoxamide	In-house Method GL-OR-149 (LC-MS/MS) (cont'd)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部
800 Victoria Road, Pokfulam, Hong Kong.
香港薄扶林域多利道八百號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Fruits, vegetables and egg products	Pesticide residues: Acephate Acetamiprid-N-desmethyl Acibenzolar-S-methyl Alachlor Atrazine Bioresmethrin Boscalid Buprofezin Cadusafos Carbaryl Carbofuran 3-Hydroxycarbofuran Chlorpropham Chlorpyrifos Chlorpyrifos Methyl Chlortoluron Clodinafop-propargyl Clomazone Clothianidin Dimethoate Dimethomorph Diniconazole Dinotefuran Ethoprophos Etofenprox Etoxazole Fenamidone Fenamiphos Fenamiphos sulphoxide Fenbuconazole Fenhexamid Fenpropimorph Fenpyroximate Fipronil Fipronil sulfone Florasulam Fluazifop-butyl Flumetsulam Fluopicolide	In-house Method GL-OR-150 (LC-QE-MS)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部
800 Victoria Road, Pokfulam, Hong Kong.
香港薄扶林域多利道八百號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Fruits, vegetables and egg products (cont'd)	Pesticide residues: (cont'd) Fluopyram Florasulam Flutriafol Fonofos Fosthiazate Hexythiazox Imazalil Indoxacarb Isocarbophos Isoprocarb Isoprothiolane Lactofen Mepronil Mesosulfuron methyl Methidathion Methomyl Metolachlor Monocroptophos Norflurazon Omethoate Oxydemeton-methyl Demeton-S-methyl-sulfone Paclobutrazol Penconazole Pendimethalin Phenthoate Pretilachlor Propanil Propargite Pyridaben Propazine Atrazine-desethyl Propiconazole Propiconazole-desthio Pyraclostrobin Pyrimethanil Pyriproxyfen Quizalofop ethyl Quizalofop methyl	In-house Method GL-OR-150 (LC-QE-MS) (cont'd)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部
800 Victoria Road, Pokfulam, Hong Kong.
香港薄扶林域多利道八百號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Fruits, vegetables and egg products (cont'd)	Pesticide residues: (cont'd) Sethoxydim Spiromesifen Tebuconazole Tebufenozide Tetraconazole Thiacloprid Tolclofos methyl Tralkoxydim Triadimefon Triazophos Tribenuron methyl Tribufos Tricyclazole Trifloxystrobin Vamidothion	In-house Method GL-OR-150 (LC-QE-MS) (cont'd)
Fruits, vegetables and cereal	Ethephon	In-house Method GL-OR-154 (LC-MS/MS)
Fruits, vegetables and cereal	Glyphosate	In-house Method GL-OR-155 (LC-MS/MS)
Milk and milk products Nuts and seeds Food seasonings Condiments Noodles	Ethylene oxide	In-house Method GL-OR-174 (GC-MS/MS)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

800 Victoria Road, Pokfulam, Hong Kong.
香港薄扶林域多利道八百號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
General foodstuff	Pesticide residues:- (Against residue definition in RE/MWI/003) 2-(Thiocyanomethyl-thio)benzothiazole (TCMTB) Abamectin (Determined as "Avermectin B1a + Avermectin B1a 8,9Z + Avermectin B1b") Acephate Acetamiprid Acibenzolar-S-methyl Acifluorfen Alachlor Aldicarb Ametryn Amitraz Semiamitraz (N-(2,4-dimethylphenyl)-N'-methylformamidine) Anilazine Atrazine Azinphos methyl Azoxystrobin Benalaxyl Benfuracarb Bensulfuron methyl Bifenthrin Bioresmethrin Bispyribac sodium Bitertanol Boscalid Bromacil Bromoxynil Buprofezin Butachlor Butafenacil Butylate Cadusafos Carbaryl Carbendazim Carbofuran Carbosulfan Carfentrazone ethyl Chlorantraniliprole Chlorbenzuron Chlorimuron ethyl	In-house Methods GL-OR-140 & RE/MWI/003 (LC-MS/MS Screening)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

800 Victoria Road, Pokfulam, Hong Kong.
香港薄扶林域多利道八百號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
General foodstuff (cont'd)	Pesticide residues:- (Against residue definition in RE/MWI/003) (cont'd) Chlorpropham Chlorpyrifos Chlorpyrifos methyl Chlorsulfuron Chlortoluron Clodinafop propargyl Clofencet Clofentezine Clomazone Clothianidin Coumaphos Cycloate Cyfluthrin Cyhalothrin Cymoxanil Cypermethrin Cyproconazole Cyprodinil Deltamethrin Desmedipham Diazinon Dichlofluanid Dichlorvos Diclosulam Dicrotophos Difenoconazole Difenzoquat Diflubenzuron Dimethenamid-P Dimethoate Dimethomorph Diniconazole Dinotefuran Diphenylamine Dodine	In-house Methods GL-OR-140 & RE/MWI/003 (LC-MS/MS Screening) (cont'd)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

800 Victoria Road, Pokfulam, Hong Kong.
香港薄扶林域多利道八百號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
General foodstuff (cont'd)	Pesticide residues:- (Against residue definition in RE/MWI/003) (cont'd) Edifenphos Emamectin (Determined as Emamectin B1a + Emamectin B1b) Esfenvalerate Ethametsulfuron methyl Ethion Ethoprophos Ethoxyquin Etofenprox Etoxazole Famoxadone Fenamidone Fenamiphos Fenarimol Fenbuconazole Fenhexamid Fenitrothion Fenobucarb (BPMC) Fenoxaprop ethyl Fenpropathrin Fenpropimorph Fenpyroximate Fenthion Fenvalerate Fipronil Florasulam Fluazifop butyl Fluazifop-P-butyl Fluazinam Flubendiamide Flucythrinate Fludioxonil Flufenoxuron Flufenpyr ethyl Flumethrin Flumetsulam Flumiclorac pentyl Flumioxazin Fluopicolide	In-house Methods GL-OR-140 & RE/MWI/003 (LC-MS/MS Screening) (cont'd)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

800 Victoria Road, Pokfulam, Hong Kong.
香港薄扶林域多利道八百號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
General foodstuff (cont'd)	Pesticide residues:- (Against residue definition in RE/MWI/003) (cont'd) Fluopyram Fluridone Fluroxypyr Flusilazole Fluthiacet methyl Flutolanil Flutriafol Fluvalinate Fomesafen Fonofos Forchlorfenuron Formetanate hydrochloride Fosthiazate Halosulfuron methyl Hexythiazox Hymexazol Imazalil Imazamethabenz methyl Imazapyr Imazethapyr Imazosulfuron Indoxacarb Iodosulfuron-methyl sodium Ipconazole Iprodione Isocarbophos Isofenphos methyl Isoprocarb Isoprothiolane Isoxaben Kresoxim methyl Lactofen Malathion Mandipropamid Mepronil Meptyldinocap Mesosulfuron methyl	In-house Methods GL-OR-140 & RE/MWI/003 (LC-MS/MS Screening) (cont'd)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

800 Victoria Road, Pokfulam, Hong Kong.
香港薄扶林域多利道八百號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
General foodstuff (cont'd)	Pesticide residues:- (Against residue definition in RE/MWI/003) (cont'd) Mesotrione Metaflumizone Metalaxyl Metconazole Methamidophos Methidathion Methiocarb Methomyl Methoprene Methoxyfenoxide Metolachlor Metrafenone Metribuzin Metsulfuron methyl Mevinphos Molinate Monocrotophos Myclobutanil Naled Napropamide Naptalam Nicosulfuron Norflurazon Novaluron Omethoate Orthosulfamuron Oryzalin Oxadiazon Oxamyl Oxydemeton methyl Oxyfluorfen Paclobutrazol Parathion Parathion methyl Penconazole	In-house Methods GL-OR-140 & RE/MWI/003 (LC-MS/MS Screening) (cont'd)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

800 Victoria Road, Pokfulam, Hong Kong.
香港薄扶林域多利道八百號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
General foodstuff (cont'd)	Pesticide residues:- (Against residue definition in RE/MWI/003) (cont'd) Pendimethalin Penoxsulam Permethrin Phenmedipham Phenthoate Phorate Phosalone Phosmet Phosphamidon Phoxim Piperonyl butoxide Pirimicarb Pirimiphos methyl Pretilachlor Primisulfuron methyl Profenofos Prometryn Propamocarb Propanil Propargite Propazine Propiconazole Propoxycarbazone Prosulfuron Prothioconazole Prothiofos Pymetrozine Pyraclostrobin Pyrethrins Pyridaben Pyridalyl Pyrimethanil Pyriproxyfen Pyrithiobac sodium Pyroxsulam	In-house Methods GL-OR-140 & RE/MWI/003 (LC-MS/MS Screening) (cont'd)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

800 Victoria Road, Pokfulam, Hong Kong.
香港薄扶林域多利道八百號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
General foodstuff (cont'd)	Pesticide residues:- (Against residue definition in RE/MWI/003) (cont'd) Quinalphos Quinclorac Quinoxyfen Quizalofop ethyl Rimsulfuron Saflufenacil Semiamitraz Sethoxydim Simazine Spinetoram Spinosad Spirodiclofen Spiromesifen Spirotetramat Spiroxamine Tebuconazole Tebufenozide Teflubenzuron Tembotrione Terbufos Tetraconazole Thiabendazole Thiacloprid Thiamethoxam Thiencarbazone methyl Thifensulfuron methyl Thiocyclam Tolclofos methyl Tolylfluanid Topramezone Tralkoxydim Triadimefon Triadimenol Triasulfuron Triazophos Tribenuron methyl Tribufos	In-house Methods GL-OR-140 & RE/MWI/003 (LC-MS/MS Screening) (cont'd)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

800 Victoria Road, Pokfulam, Hong Kong.
香港薄扶林域多利道八百號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
General foodstuff (cont'd)	Pesticide residues:- (Against residue definition in RE/MWI/003) (cont'd) Trichlorfon Triclopyr Tricyclazole Trifloxystrobin Trifloxysulfuron Triflusulfuron methyl Triticonazole Uniconazole Vamidothion Zoxamide	In-house Methods GL-OR-140 & RE/MWI/003 (LC-MS/MS Screening) (cont'd)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

800 Victoria Road, Pokfulam, Hong Kong.
香港薄扶林域多利道八百號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Fruit and Vegetables	Pesticide residues:- (Against residue definition in RE/MWI/003) 2-(Thiocyanomethylthio)benzothiazole (TCMTB) Aldrin and Dieldrin Ametryn Benalaxyl Benfluralin Bifenthrin Boscalid Bromacil Bromopropylate Butachlor Butafenacil Cadusafos Captan Chlorantraniliprole Chlordane Chlorfenapyr Chlorpropham Chlorpyrifos Chlorpyrifos methyl Clomazone Cycloate Cyhalothrin Cyprodinil DDT Diazinon Dichlobenil Dicloran Dimethenamid-P Dimethipin Dimethoate Diniconazole Diphenylamine	In-house Methods GL-OR-144 & RE/MWI/003 (GC-TOF-MS Screening)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

800 Victoria Road, Pokfulam, Hong Kong.
香港薄扶林域多利道八百號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Fruit and Vegetables (cont'd)	Pesticide residues:- (Against residue definition in RE/MWI/003) (cont'd) Endosulfan Endrin Ethalfluralin Ethion Ethoprophos Etofenprox Etoxazole Fenamidone Fenarimol Fenitrothion Fenpropathrin Fenpropimorph Fenvalerate Esfenvalerate Fipronil Flufenpyr-ethyl Flumiclorac pentyl Fluopicolide Fluopyram Flusilazole Flutolanil Flutriafol Folpet Fonofos Fthalide Heptachlor Hexachlorobenzene Hexachlorocyclohexane (HCH) Lindane Hexythiazox Kresoxim methyl Lactofen Malathion Mepronil Metconazole Methidathion	In-house Methods GL-OR-144 & RE/MWI/003 (GC-TOF-MS Screening) (cont'd)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

800 Victoria Road, Pokfulam, Hong Kong.
香港薄扶林域多利道八百號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Fruit and Vegetables (cont'd)	Pesticide residues:- (Against residue definition in RE/MWI/003) (cont'd) Metolachlor Metrafenone Mevinphos Napropamide Norflurazon Oxyfluorfen Parathion Parathion methyl Penconazole Pendimethalin Permethrin Phenthoate Phosalone Pirimphos Methyl Pretilachlor Procymidone Profenofos Prometryn Propanil Propiconazole Prothiofos Pyridalyl Pyrimethanil Pyriproxyfen Quinalphos Quinoxyfen Quintozene Spirodiclofen Tecnazene Tetraconazole Tolclofos-methyl Tolylfluanid Triazophos Tribufos Trifloxystrobin Trifluralin Uniconazole Zoxamide	In-house Methods GL-OR-144 & RE/MWI/003 (GC-TOF-MS Screening) (cont'd)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

800 Victoria Road, Pokfulam, Hong Kong.
香港薄扶林域多利道八百號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Fruit and Vegetables	Pesticide residues :- (Against residue definition in RE/MWI/003) Tefluthrin	In-house Methods GL-OR-140, GL-OR-144 & RE/MWI/003 (LC-MS/MS and GC-TOF-MS Screening)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

800 Victoria Road, Pokfulam, Hong Kong.
香港薄扶林域多利道八百號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
General foodstuff	Pesticide residues :- (Against residue definition in RE/MWI/003) Aldrin and Dieldrin Chlordane Chlorfenapyr Chlorothalonil DDT Endosulfan Heptachlor Hexachlorocyclohexane (HCH) Lindane Procymidone Quintozene Trifluralin Acephate Azinphos methyl Bifenthrin Chlorpyrifos Chlorpyrifos methyl Cyfluthrin Cyhalothrin Cypermethrin Deltamethrin Diazinon Dichlorvos Dimethoate Edifenphos Ethion Ethoprophos Fenitrothion Fenpropathrin Fenvalerate / Esfenvalerate Isocarbophos	In-house Methods GL-OR-134 & RE/MWI/003 (GC-MS/MS and LC-MS/MS Screening)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

800 Victoria Road, Pokfulam, Hong Kong.
香港薄扶林域多利道八百號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
General foodstuff (cont'd)	Pesticide residues :- (Against residue definition in RE/MWI/003) (cont'd) Malathion Methamidophos Methidathion Mevinphos Monocrotophos Omethoate Parathion Parathion methyl Permethrin Phenthoate Phosalone Phosmet Phosphamidon Pirimiphos Methyl Profenofos Prothiofos Quinalphos Triazophos Trichlorfon Aldicarb Carbaryl Carbofuran Isoprocarb	In-house Methods GL-OR-134 & RE/MWI/003 (GC-MS/MS and LC-MS/MS Screening) (cont'd)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部
800 Victoria Road, Pokfulam, Hong Kong.
香港薄扶林域多利道八百號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Fruits, vegetables and egg products	Pesticide residues:- (Against residue definition in RE/MWI/003) Acephate Acetamiprid Acibenzolar-S-methyl Acifluorfen Alachlor Aldicarb Atrazine Benalaxyl Bensulfuron methyl Bifenthrin Bioresmethrin Bitertanol Boscalid Buprofezin Butachlor Butafenacil Cadusafos Carbaryl Carbofuran Chlorantraniliprole Chlorimuron ethyl Chlorpropham Chlorpyrifos Chlorpyrifos Methyl Chlorsulfuron Chlortoluron Clomazone Clothianidin Coumaphos Cyfluthrin Cyhalothrin Cyprodinil Deltamethrin Diazinon Dichlorvos	In-house Method GL-OR-149 & RE/MWI/003 (LC-MS/MS)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部
800 Victoria Road, Pokfulam, Hong Kong.
香港薄扶林域多利道八百號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Fruits, vegetables and egg products (cont'd)	Pesticide residues:- (Against residue definition in RE/MWI/003) (cont'd) Dicrotophos Diflubenzuron Dimethoate Dimethomorph Diniconazole Dinotefuran Diphenylamine Esfenvalerate Ethametsulfuron-methyl Ethion Ethoprophos Etoxazole Famoxadone Fenamidone Fenamiphos Fenarimol Fenbuconazole Fenhexamid Fenobucarb (BPMC) Fenpropathrin Fenpropimorph Fenpyroximate Fenvalerate Fipronil Florasulam Fluazinam Flubendiamide Flufenoxuron Flumethrin Flumetsulam Flumiclorac pentyl Flumioxazin Fluopicolide Fluopyram Flutraifol	In-house Method GL-OR-149 & RE/MWI/003 (LC-MS/MS) (cont'd)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部
800 Victoria Road, Pokfulam, Hong Kong.
香港薄扶林域多利道八百號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Fruits, vegetables and egg products (cont'd)	Pesticide residues:- (Against residue definition in RE/MWI/003) (cont'd) Fluvalinate Fomesafen Fonofos Formetanate hydrochloride [Salt] Fosthiazate Halosulfuron methyl Hexythiazox Imazalil Indoxacarb Iodosulfuron-methyl sodium Iprodione Isocarbophos Isofenphos-methyl Isoprocarb Isoprothiolane Kresoxim methyl Lactofen Malathion Mandipropamid Mepronil Mesosulfuron methyl Methamidophos Methidathion Methiocarb Methoxyfenozide Metolachlor Metsulfuron-methyl Mevinphos Molinate Monocroptophos Myclobutanil Nicosulfuron Novaluron Omethoate Oxamyl	In-house Method GL-OR-149 & RE/MWI/003 (LC-MS/MS) (cont'd)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部
800 Victoria Road, Pokfulam, Hong Kong.
香港薄扶林域多利道八百號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Fruits, vegetables and egg products (cont'd)	Pesticide residues:- (Against residue definition in RE/MWI/003) (cont'd) Oxydemeton-methyl Oxyfluorfen Paclobutrazol Parathion Parathion methyl Penconazole Pendimethalin Permethrin Phenmedipham Phenthoate Phosalone Phosmet Piperonyl butoxide Pirimphos Methyl Pretilachlor Profenofos Propanil Propargite Propazine Propiconazole Prothioconazole Prothiofos Pyraclostrobin Pyridaben Pyrimethanil Pyripoxyfen Quinalphos Spinetoram Spirodiclofen Spiromesifen Spirotetramat Spiroxamine Tebuconazole Tebufenozide Teflubenzuron	In-house Method GL-OR-149 & RE/MWI/003 (LC-MS/MS) (cont'd)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部
800 Victoria Road, Pokfulam, Hong Kong.
香港薄扶林域多利道八百號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Fruits, vegetables and egg products (cont'd)	Pesticide residues:- (Against residue definition in RE/MWI/003) (cont'd) Tetraconazole Thiacloprid Tolclofos-methyl Tralkoxydim Triadimefon Triadimenol Triasulfuron Triazophos Tribenuron-methyl Tribufos Tricyclazole Trifloxystrobin Vamidothion Zoxamide	In-house Method GL-OR-149 & RE/MWI/003 (LC-MS/MS) (cont'd)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部
800 Victoria Road, Pokfulam, Hong Kong.
香港薄扶林域多利道八百號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Fruits, vegetables and egg products	Pesticide residues:- (Against residue definition in RE/MWI/003) Acephate Acibenzolar-S-methyl Alachlor Atrazine Bioresmethrin Boscalid Buprofezin Cadusafos Carbaryl Carbofuran Chlorpropham Chlorpyrifos Chlorpyrifos-methyl Chlortoluron Clomazone Clothianidin Dimethoate Dimethomorph Diniconazole Dinotefuran Ethoprophos Etofenprox Etoxazole Fenamidone Fenbuconazole Fenhexamid Fenpropimorph Fenpyroximate Fipronil Florasulam Flumetsulam Fluopicolide Flutriafol Fonofos Fosthiazate Hexythiazox Imazalil	In-house Method GL-OR-150 & RE/MWI/003 (LC-QE-MS)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部
800 Victoria Road, Pokfulam, Hong Kong.
香港薄扶林域多利道八百號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Fruits, vegetables and egg products (cont'd)	Pesticide residues:- (Against residue definition in RE/MWI/003) (cont'd) Indoxacarb Isocarbophos Isoprocarb Isoprothiolane Lactofen Mepronil Mesosulfuron-methyl Methidathion Metolachlor Monocrotophos Omethoate Paclobutrazol Penconazole Pendimethalin Phenthoate Pretilachlor Propanil Propargite Pyridaben Propiconazole Prothioconazole Pyraclostrobin Pyrimethanil Pyriproxyfen Sethoxydim Tebuconazole Tebufenozide Tetraconazole Thiacloprid Tolclofos-methyl Tralkoxydim Triazophos Tribenuron-methyl Tribufos Tricyclazole Trifloxystrobin Vamidothion	In-house Method GL-OR-150 & RE/MWI/003 (LC-QE-MS) (cont'd)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Pesticide residues:- (Against residue definition in RE/MWI/003)	
Fruits, vegetables and creals	Ethephon	In-house Method GL-OR-154 & RE/MWI/003 (LC-MS/MS)
Fruits, vegetables and creals	Glyphosate	In-house Method GL-OR-155 & RE/MWI/003 (LC-MS/MS)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

800 Victoria Road, Pokfulam, Hong Kong.
香港薄扶林域多利道八百號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Veterinary drug residues :-	
Animal muscle	- Aminoglycosides :- Dihydrostreptomycin Gentamicin Neomycin Spectinomycin Streptomycin	In-house Method GL-VD-32 (LC-MS/MS)
	- Beta-lactams: - Amoxycillin Ampicillin Benzylpenicillin Cloxacillin Dicloxacillin Ceftiofur	In-house Method GL-VD-25 (RIA screening)
	- Fluoroquinolones :- Ciprofloxacin Danofloxacin Enrofloxacin Flumequine Sarafloxacin	In-house Method GL-VD-29 (LC-Fluorescence detection/ LC-MS/MS)
	- Quinolone :- Oxolinic acid	
	- Polypeptides antibiotics:- Bacitracin Colistin	In-house Method GL-VD-34 (LC-MS/MS screening)
	- Hormones :- Dienoestrol Diethylstilboestrol Hexoestrol	In-house Method GL-VD-3 (GC-MS)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

800 Victoria Road, Pokfulam, Hong Kong.
香港薄扶林域多利道八百號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Animal muscle (cont'd)	Veterinary drug residues :- (cont'd)	
	- Macrolides :- Josamycin Kitasamycin Tylosin	In-house Method GL-VD-21 (LC-Diode array detection)
	- Lincomycin - Macrolides :- Erythromycin Josamycin Kitasamycin Tylosin - Nitrofurans :- Furaltadone Furazolidone - Trimethoprim - Virginiamycin	In-house Method GL-VD-31 (LC-MS/MS screening)
	- Nitrofurans :- Furaltadone Furazolidone	In-house Method GL-VD-11 (LC-UVD/ LC-MS/MS)
	- Sulphonamides :- Sulfanitran Sulfacetamide Sulfadiazine Sulfapyridine Sulfamethazine Sulfisoxazole Sulfaquinoxaline Sulfathiazole Sulfamerazine Sulfamethizole Sulfamethoxy-pyridazine Dapsone Sulfamethoxazole Sulfadimethoxine	In-house Method GL-VD-24 (RIA screening)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

800 Victoria Road, Pokfulam, Hong Kong.
香港薄扶林域多利道八百號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Veterinary drug residues :- (cont'd)	
Animal muscle	- Tetracyclines :- Chlortetracycline Doxycycline Oxytetracycline Tetracycline	In-house Method GL-VD-2 (RIA screening) In-house Method GL-VD-30 (LC-UVD/ LC-MS/MS)
Pork and porcine liver	- Antibiotics:- Quinoxaline-2-carboxylic acid	In-house Method GL-VD-8 (GC-MS negative chemical ionization)
Bovine and porcine liver	Ivermectin (22,23-dihydroavermectin B1a)	In-house Method GL-VD-13 (LC-Fluorescence detection)
Animal kidney, liver and muscle	Trimethoprim	In-house Method GL-VD-27 (LC-MS/MS)
Animal muscle, kidney, heart, liver and lung	- Beta-agonists: - Clenbuterol Salbutamol	In-house Method GL-VD-5 (ELISA screening) In-house Method GL-VD-16 (LC-MS/MS)
Animal kidney, liver, muscle and aquatic food	- Chloramphenicol	In-house Method GL-VD-17 (ELISA screening and LC-MS/MS)
Animal kidney, liver and muscle	- Macrolides :- Erythromycin Josamycin Kitasamycin Tylosin	In-house Method GL-VD-28 (LC-MS/MS)
Animal kidney and liver	- Nitrofuran :- Furazolidone	In-house Method GL-VD-12 (LC-UVD/ LC-MS/MS)
Animal kidney, liver and muscle	- Nitroimidazoles :- Dimetridazole Metronidazole	In-house Method GL-VD-22 (GC-MS Negative chemical ionization)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

800 Victoria Road, Pokfulam, Hong Kong.
香港薄扶林域多利道八百號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Veterinary drug residues :- (cont'd)	
Animal kidney, liver and muscle Milk Egg Honey	- Nitroimidazoles :- Dimetridazole Metronidazole Hydroxymetronidazole Ronidazole Ipronidazole Hydroxyipronidazole Hydroxydimetridazole	In-house Method GL-VD-39 (LC-MS/MS)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

800 Victoria Road, Pokfulam, Hong Kong.
香港薄扶林域多利道八百號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Veterinary drug residues :- (cont'd)	
Animal muscle Porcine kidney and liver	- Sulphonamides :- Sulfacetamide Sulfadiazine Sulfapyridine Sulfamethazine Sulfachlorpyridazine Sulfisoxazole Sulfathiazole Sulfamerazine Sulfamethizole Sulfamethoxy-pyridazine Dapsone Sulfamethoxazole Sulfadimethoxine Sulfaquinoxaline	In-house Method GL-VD-26 (LC-MS/MS)
Aquatic food Fish and Shellfish tissue	- Malachite green and Leucomalachite green - Crystal violet and Leucocrystal violet	In-house method GL-VD-33 (LC-MS/MS)
Aquatic food Fish and Shellfish tissue Honey	- Nitrofuran metabolites - 3-amino-2-oxazolidone (AOZ) 3-amino-5-morpholinomethyl-2-oxazolidinone (AMOZ) 1-aminohydantoin (AHD) Semicarbazide (SEM)	In-house method GL-VD-35 (LC-MS/MS)
Animal muscle and milk	Synthetic hormones :- Dienoestrol Diethylstilboestrol Hexoestrol	In-house Method GL-VD-36 (LC-MS/MS screening)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

800 Victoria Road, Pokfulam, Hong Kong.
香港薄扶林域多利道八百號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Veterinary drug residues :- (cont'd)	
Animal-derived food	Chlorpromazine	In-house method GL-VD-37 (LC-MS/MS)
Animal-derived food	Ractopamine	In-house method GL-VD-38 (LC-MS/MS)

Government Laboratory – Analytical and Advisory Services Division
政府化驗所 – 分析及諮詢事務部

800 Victoria Road, Pokfulam, Hong Kong.
香港薄扶林域多利道八百號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Milk	- Aminoglycosides :- Dihydrostreptomycin Gentamicin Neomycin Spectinomycin Streptomycin	In-house Method GL-VD-32 (LC-MS/MS screening)
	- Beta-lactams: - Amoxycillin Ampicillin Benzylpenicillin Cloxacillin Dicloxacillin Ceftiofur	In-house Method GL-VD-25 (RIA screening)
	- Macrolides:- Erythromycin Tylosin	In-house Method GL-VD-28 (LC-MS/MS)
	- Polypeptides antibiotics:- Bacitracin Colistin	In-house Method GL-VD-34 (LC-MS/MS screening)
	- Sulphonamides :- Sulfanitran Sulfacetamide Sulfadiazine Sulfapyridine Sulfamethazine Sulfisoxazole Sulfaquinoxaline Sulfathiazole Sulfamerazine Sulfamethizole Sulfamethoxy-pyridazine Dapsone Sulfamethoxazole Sulfadimethoxine	In-house Method GL-VD-24 (RIA screening)
	- Tetracyclines :- Chlortetracycline Oxytetracycline Tetracycline	In-house Method GL-VD-2 (RIA screening)

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

ADDRESS : 10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
地址 香港新界大埔工業邨大宏街 10 號

Unit B, 10/F, Block 1, Tai Ping Industrial Centre, 57 Ting Kok Road, Tai Po, New Territories, Hong Kong
香港新界大埔汀角路57號太平工業中心第一座10樓B室

ENQUIRY : Dr LEE Kam-chuen, General Manager
查詢 李金泉博士，總經理

TELEPHONE : 2666 1888
電話

FAX : 2664 4353
傳真

E-MAIL : hkstc@stc.group
電郵

WEBSITE ADDRESS : www.stc.group
網址

CLIENTELE : Public
服務對象 公眾

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

ADDRESS **地址**	:	10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong 香港新界大埔工業邨大宏街 10 號 Unit B, 10/F, Block 1, Tai Ping Industrial Centre, 57 Ting Kok Road, Tai Po, New Territories, Hong Kong 香港新界大埔汀角路 57 號太平工業中心第一座 10 樓 B 室
ACCREDITED TEST CATEGORY **認可測試類別**	:	Testing Required by the China Compulsory Certification System (CCC) 中國強制性產品認證制度規定的檢測 Chinese Medicine 中藥 Construction Materials 建築材料 Electrical and Electronic Products 電氣及電子產品 Environmental Testing 環境測試 Food 食品 Miscellaneous 雜類 Pharmaceutical Products 藥物 Physical and Mechanical Testing 物理及機械測試 Textiles and Garments 紡織品及成衣 Toys and Children's Products 玩具及兒童產品

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Testing Required by the China Compulsory Certification System (CCC) 中國強制性產品認證制度規定的檢測		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Toys and children's products 兒童用品 - Toy *(2202)* - 玩具*(2202)*		
- Electric toy ***<Excluding the following>*** - ride-on vehicle toy - toy containing gas or liquid - toy intended to be used in water - toy likely to be cleaned with liquid - imitation weapon toy - cosmetic toy - toy with direct food contact - large and bulky toy	All required tests as specified in CNCA-C22-02: 2020	GB 6675.1-2014 GB 6675.2-2014 + Amendment 1 GB 6675.3-2014 GB 6675.4-2014 GB 19865-2005 + Amendment 1
- 電玩具 ***<不包括>*** - 乘騎車輛玩具 - 含氣體或液體玩具 - 預期在水中使用的玩具 - 可能用液體清潔的玩具 - 仿真武器玩具 - 玩具化妝品 - 與食品直接接觸的玩具 - 大型玩具	CNCA-C22-02: 2020 有關規定的所有檢測	GB 6675.1-2014 GB 6675.2-2014 +第 1 號修改單 GB 6675.3-2014 GB 6675.4-2014 GB 19865-2005 +第 1 號修改單

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Testing Required by the China Compulsory Certification System (CCC) 中國強制性產品認證制度規定的檢測

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Toys and children's products 兒童用品		
- Toy *(2202)* (cont'd) - 玩具*(2202)* (續上)		
- Plastic toy ***<Excluding the following>*** - ride-on vehicle toy - toy containing gas or liquid - imitation weapon toy - cosmetic toy - toy with direct food contact - large and bulky toy	All required tests as specified in CNCA-C22-02: 2020	GB 6675.1-2014 GB 6675.2-2014 + Amendment 1 GB 6675.3-2014 GB 6675.4-2014
- 塑膠玩具 ***<不包括>*** - 乘騎車輛玩具 - 含氣體或液體玩具 - 仿真武器玩具 - 玩具化妝品 - 與食品直接接觸的玩具 - 大型玩具	CNCA-C22-02: 2020 有關規定的所有檢測	GB 6675.1-2014 GB 6675.2-2014 +第 1 號修改單 GB 6675.3-2014 GB 6675.4-2014
- Metal toy ***<Excluding the following>*** - ride-on vehicle toy - toy containing gas or liquid - imitation weapon toy - cosmetic toy - toy with direct food contact - large and bulky toy	All required tests as specified in CNCA-C22-02: 2020	GB 6675.1-2014 GB 6675.2-2014 + Amendment 1 GB 6675.3-2014 GB 6675.4-2014
- 金屬玩具 ***<不包括>*** - 乘騎車輛玩具 - 含氣體或液體玩具 - 仿真武器玩具 - 玩具化妝品 - 與食品直接接觸的玩具 - 大型玩具	CNCA-C22-02: 2020 有關規定的所有檢測	GB 6675.1-2014 GB 6675.2-2014 +第 1 號修改單 GB 6675.3-2014 GB 6675.4-2014

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Chinese Medicine 中藥		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Chinese Herbal Medicines	Toxic elements :- - Arsenic, Cadmium, Lead, Mercury	In-house method CFD/STP/FOD/251 (ICP-MS)
Proprietary Chinese Medicines and Chinese Herbal Medicines	- Arsenic, Cadmium, Lead, Mercury, Copper	In-house Method CFD/STP/FOD/205 (ICP-AES)
	- Arsenic, Cadmium, Lead, Mercury	In-house Method CFD/STP/FOD/205 (ICP-AES and confirmation by ICP-MS)
Proprietary Chinese Medicines	Pesticides residues:- - Organochlorine pesticides: Aldrin, Dieldrin, Endrin, cis-Chlordane, trans-Chlordane, Oxychlordane, Heptachlor, Heptachlor epoxide, Hexachlorocyclohexane isomers (alpha-, beta- and delta-BHC) , Lindane, Hexachlorobenzene, Methyl pentachlorophenyl sulphide, Pentachloroaniline, Quintozene (pentachloronitrobenzene), 2,4'-DDT, 4,4'-DDT, 4,4'-DDE and 4,4'-DDD	In-house Method CFD/STP/FOD/277 (GC-ECD and confirmation by GC-MSD)
Proprietary Chinese Medicines (oil base capsule)	Pesticides residues:- - Organochlorine pesticides: Aldrin, Dieldrin, Endrin, cis-Chlordane, trans-Chlordane, Oxychlordane, Heptachlor, Heptachlor epoxide, Hexachlorocyclohexane isomers (alpha-, beta- and delta-BHC) , Lindane, Hexachlorobenzene, Methyl pentachlorophenyl sulphide, Pentachloroaniline, Quintozene (pentachloronitrobenzene), 2,4'-DDT, 4,4'-DDT, 4,4'-DDE and 4,4'-DDD	In-house Method CFD/STP/CHM/144 (GC-ECD & confirmation by GC-MSD)
Proprietary Chinese Medicines (medicinal oil)	Screening for Pesticides residues:- - Organochlorine pesticides: Aldrin, Dieldrin, Endrin, cis-Chlordane, trans-Chlordane, Oxychlordane, Heptachlor, Heptachlor epoxide, Hexachlorocyclohexane isomers (alpha-, beta- and delta-BHC) , Lindane, Hexachlorobenzene, Methyl pentachlorophenyl sulphide, Pentachloroaniline, Quintozene (pentachloronitrobenzene), 2,4'-DDT, 4,4'-DDT, 4,4'-DDE and 4,4'-DDD	In-house Method CFD/STP/CHM/144 (GC-ECD)

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Chinese Medicine 中藥		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Pharmaceutical Products	Chemical tests :-	
Pills 丸劑	- Disintegration 溶散時限	Pharmacopoeia of the People's Republic of China 2005, Volume I, App. I A (excluding wax ball) and App. XII A 中華人民共和國藥典2005年版一部, 附錄I A (蜡丸除外)及附錄XII A Pharmacopoeia of the People's Republic of China 2010, Volume I, App. I A (excluding wax ball) and App. XII A 中華人民共和國藥典2010年版一部, 附錄I A (蜡丸除外)及附錄XII A Pharmacopoeia of the People's Republic of China 2015, Volume IV, General Chapter 0108 and 0921 (excluding waxed pills, sugar pills, dripping pills and big honeyed pills) 中華人民共和國藥典 2015 年版四部, 通則 0108 及 0921（蠟丸, 糖丸, 滴丸劑及大蜜丸除外） Pharmacopoeia of the People's Republic of China 2020, Volume IV, General Chapter 0108 and 0921 (excluding waxed pills, sugar pills, dripping pills and big honeyed pills) 中華人民共和國藥典 2020 年版四部,通則 0108 及 0921 (蠟丸,糖丸,滴丸劑及大蜜丸除外)
	- Water content 水份含量 (by oven drying 烘乾法)	Pharmacopoeia of the People's Republic of China 2005, Volume I, App. I A and App. IX H Method 1 中華人民共和國藥典2005年版一部, 附錄I A及附錄IXH 第一法 Pharmacopoeia of the People's Republic of China 2010, Volume I, App. I A and App. IX H Method 1 中華人民共和國藥典2010年版一部, 附錄I A及附錄IXH 第一法 Pharmacopoeia of the People's Republic of China 2015, Volume IV, General Chapter 0108 and 0832 Method 2 (excluding waxed pills, sugar pills and dripping pills) 中華人民共和國藥典2015年版四部, 通則0108及0832第二法（蠟丸, 糖丸, 及滴丸劑除外）

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司
10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Chinese Medicine 中藥		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Pharmaceutical Products (con't)	Chemical tests :- (con't)	
Pills 丸劑	- Water content 水份含量 (by oven drying 烘乾法)	Pharmacopoeia of the People's Republic of China 2020, Volume IV, General Chapter 0108 and 0832 Method 2 (excluding waxed pills, sugar pills and dripping pills) 中華人民共和國藥典 2015 年版四部,通則 0108 及 0832 第二法 (蠟丸,糖丸,及滴丸劑除外)
	- Weight variation 重量差異	Pharmacopoeia of the People's Republic of China 2005, Volume I, App. I A 中華人民共和國藥典 2005 年版一部, 附錄 I A Pharmacopoeia of the People's Republic of China 2010, Volume I, App. I A 中華人民共和國藥典 2010 年版一部, 附錄 I A Pharmacopoeia of the People's Republic of China 2015, Volume IV, General Chapter 0108 中華人民共和國藥典 2015 年版四部, 通則 0108 Pharmacopoeia of the People's Republic of China 2020, Volume IV, General Chapter 0108 中華人民共和國藥典 2020 年版四部,通則 0108
Powder 散劑	- Water content水份含量 (by oven drying 烘乾法)	Pharmacopoeia of the People's Republic of China 2005, Volume I, App. I B and App. IX H Method 1 中華人民共和國藥典2005年版一部, 附錄I B及附錄IXH 第一法 Pharmacopoeia of the People's Republic of China 2010, Volume I, App. I B and App. IX H Method 1 中華人民共和國藥典2010年版一部, 附錄I B及附錄IXH 第一法 Pharmacopoeia of the People's Republic of China 2015, Volume IV, General Chapter 0115 and 0832 Method 2 中華人民共和國藥典 2015 年版四部, 通則 0115 及 0832 第二法

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司
10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Chinese Medicine 中藥

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Pharmaceutical Products (con't)	Chemical tests :- (con't)	
Powder 散劑	- Water content水份含量 (by oven drying 烘乾法)	Pharmacopoeia of the People's Republic of China 2020, Volume IV, General Chapter 0115 and 0832 Method 2 中華人民共和國藥典2020年版四部,通則0115及0832第二法
Granules 顆粒劑	- Water content水份含量 (by oven drying 烘乾法)	Pharmacopoeia of the People's Republic of China 2005, Volume I, App. I C and App. IX H Method 1 中華人民共和國藥典2005年版一部,附錄I C及附錄IXH 第一法 Pharmacopoeia of the People's Republic of China 2010, Volume I, App. I C and App. IX H Method 1 中華人民共和國藥典2010年版一部, 附錄I C及附錄IXH 第一法 Pharmacopoeia of the People's Republic of China 2015, Volume IV, General Chapter 0104 and 0832 Method 2 中華人民共和國藥典2015年版四部, 通則0104及0832第二法 Pharmacopoeia of the People's Republic of China 2020, Volume IV, General Chapter 0104 and 0832 Method 2 中華人民共和國藥典2020年版四部,通則0104及0832第二法
Tablets 片劑	- Disintegration 崩解時限	Pharmacopoeia of the People's Republic of China 2005, Volume I, App. I D (excluding vaginal tablet) and App. XII A (excluding enteric-coated tablet and effervescent tablet) 中華人民共和國藥典2005年版一部, 附錄I D (陰道片除外)及附錄XII A (腸溶衣片及泡騰片除外)

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Chinese Medicine 中藥		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Pharmaceutical Products (con't)	Chemical tests :- (con't)	
Tablets 片劑	- Disintegration 崩解時限	Pharmacopoeia of the People's Republic of China 2010, Volume I, App. I D and App. XII A (excluding vaginal tablets, lozenges, chewable tablets, enteric-coated tablet and effervescent tablet) 中華人民共和國藥典 2010 年版一部, 附錄 I D 及附錄 XII A (陰道片,含片,嘴嚼片,腸溶衣片及泡騰片除外)
		Pharmacopoeia of the People's Republic of China 2015, Volume IV, General Chapter 0101 and 0921(excluding chewable tablets, orally disintegrating tablets, dispersible tablets, effervescent tablets, sustained-release tablets, controlled-release tablets, enteric-coated tablets, dental patches, vaginal tablets and effervescent vaginal tablet) 中華人民共和國藥典 2015 年版四部，通則 0101 及 0921(咀嚼片,口崩片,分散片,泡騰片,緩釋片控釋片, 腸溶片,口腔貼片,陰道片及陰道泡騰片除外)
		Pharmacopoeia of the People's Republic of China 2020, Volume IV, General Chapter 0101 and 0921(excluding chewable tablets, orally disintegrating tablets, dispersible tablets, effervescent tablets, sustained-release tablets, controlled-release tablets, enteric-coated tablets, dental patches, vaginal tablets and effervescent vaginal tablet) 中華人民共和國藥典 2020 年版四部，通則 0101 及 0921(咀嚼片,口崩片,分散片,泡騰片,緩釋片控釋片, 腸溶片,口腔貼片,陰道片及陰道泡騰片除外)
	- Weight variation重量差異	Pharmacopoeia of the People's Republic of China 2005, Volume I, App. I D 中華人民共和國藥典 2005 年版一部, 附錄 I D
		Pharmacopoeia of the People's Republic of China 2010, Volume I, App. I D 中華人民共和國藥典 2010 年版一部, 附錄 I D

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Chinese Medicine 中藥

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Pharmaceutical Products (con't)	Chemical tests :- (con't)	
Tablets 片劑	- Weight variation重量差異	Pharmacopoeia of the People's Republic of China 2015, Volume IV, General Chapter 0101 中華人民共和國藥典 2015 年版四部，通則 0101 Pharmacopoeia of the People's Republic of China 2020, Volume IV, General Chapter 0101 中華人民共和國藥典 2020 年版四部，通則 0101
Capsules 胶囊劑	- Disintegration 崩解時限	Pharmacopoeia of the People's Republic of China 2005, Volume I, App. I L and App. XII A (excluding enteric-coated capsule) 中華人民共和國藥典2005年版一部, 附錄I L及附錄XII A（腸溶胶囊除外） Pharmacopoeia of the People's Republic of China 2010, Volume I, App. I L and App. XII A (excluding enteric-coated capsule) 中華人民共和國藥典2010年版一部, 附錄I L及附錄XII A（腸溶胶囊除外） Pharmacopoeia of the People's Republic of China 2015, Volume IV, General Chapter 0103 and 0921 (excluding sustained-release capsule, controlled-release capsule and enteric-coated capsule) 中華人民共和國藥典2015年版四部，通則0103及0921(緩釋胶囊,控釋胶囊及腸溶胶囊除外) Pharmacopoeia of the People's Republic of China 2020, Volume IV, General Chapter 0103 and 0921 (excluding sustained-release capsule, controlled-release capsule and enteric-coated capsule) 中華人民共和國藥典2020年版四部，通則0103及0921(緩釋胶囊,控釋胶囊及腸溶胶囊除外)

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Chinese Medicine 中藥

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Pharmaceutical Products (con't)	Chemical tests :- (con't)	
Capsules 胶囊劑	- Water content 水份含量 (by oven drying 烘乾法)	Pharmacopoeia of the People's Republic of China 2005, Volume I, App. I L and App. IX H Method 1 (excluding soft capsule and enteric- coated capsule) 中華人民共和國藥典 2005 年版一部,附錄 I L 及附錄 IXH 第一法 (軟胶囊及腸溶胶囊除外) Pharmacopoeia of the People's Republic of China 2010, Volume I, App. I L and App. IX H Method 1 (excluding soft capsule and enteric- coated capsule) 中華人民共和國藥典 2010 年版一部,附錄 I L 及附錄 IXH 第一法 (軟胶囊及腸溶胶囊除外) Pharmacopoeia of the People's Republic of China 2015, Volume IV, General Chapter 0103 and 0832 Method 2 (excluding soft capsule, sustained-release capsule, controlled-release capsule and enteric-coated capsule) 中華人民共和國藥典 2015 年版四部,通則 0103 及 0832 第二法 (軟胶囊,緩釋胶囊,控釋胶囊及腸溶胶囊除外) Pharmacopoeia of the People's Republic of China 2020, Volume IV, General Chapter 0103 and 0832 Method 2 (excluding soft capsule, sustained-release capsule, controlled-release capsule and enteric-coated capsule) 中華人民共和國藥典 2020 年版四部,通則 0103 及 0832 第二法 (軟胶囊,緩釋胶囊,控釋胶囊及腸溶胶囊除外)
Medicinal Tea 茶劑	- Water content水份含量 (by oven drying 烘乾法)	Pharmacopoeia of the People's Republic of China 2005, Volume I, App. I T and App. IX H Method 1 中華人民共和國藥典2005年版一部, 附錄I T及附錄IXH 第一法 Pharmacopoeia of the People's Republic of China 2010, Volume I, App. I T and App. IX H Method 1 中華人民共和國藥典2010年版一部, 附錄I T及附錄IXH 第一法

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Chinese Medicine 中藥

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Pharmaceutical Products (con't)	Chemical tests :- (con't)	
Medicinal Tea 茶劑	- Water content水份含量 (by oven drying 烘乾法)	Pharmacopoeia of the People's Republic of China 2015, Volume IV, General Chapter 0188 and 0832 Method 2 中華人民共和國藥典2015年版四部, 通則 0188及0832 第二法 Pharmacopoeia of the People's Republic of China 2020, Volume IV, General Chapter 0188 and 0832 Method 2 中華人民共和國藥典2020年版四部, 通則 0188及0832 第二法
	Chemical and physicochemical tests:-	
Chinese Materia Medica 中藥材	- Sulphur dioxide (二氧化硫)	Pharmacopoeia of the People's Republic of China 2015, Volume IV, General Monographs 2331 Method 1 (acid based titration method) excluding Dioscoreae Rhizoma) 中華人民共和國藥典2015年版四部, 通則 2331 (第一法, 酸鹼滴定法) (山藥片除外) Pharmacopoeia of the People's Republic of China 2020, Volume IV, General Monographs 2331 Method 1 (acid based titration method) (excluding Dioscoreae Rhizoma) 中華人民共和國藥典2020年版四部,通則 2331 (第一法， 酸鹼滴定法) (山藥片除外)

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Chinese Medicine 中藥		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Chinese Materia Medica (con't) 中藥材	Chemical and physicochemical tests:- (con't)	
	- Ash 灰分	Hong Kong Chinese Materia Medica Standards Volume 2, App. IX 香港中藥材標準第二冊，附錄 IX Hong Kong Chinese Materia Medica Standards Volume 4, App. IX 香港中藥材標準第四冊，附錄 IX Hong Kong Chinese Materia Medica Standards Volume 5, App. IX 香港中藥材標準第五冊，附錄 IX Hong Kong Chinese Materia Medica Standards Volume 6, App. IX 香港中藥材標準第六冊，附錄 IX
	- Water content 水分含量 (by toluene distillation method 甲苯法)	Hong Kong Chinese Materia Medica Standards Volume 1 to 3, App. X 香港中藥材標準第一至三冊，附錄 X Hong Kong Chinese Materia Medica Standards Volume 4 to 8, App. X(1) 香港中藥材標準第四至八冊，附錄 X(1)
	- Water content 水分含量 (by oven dried method 烘乾法)	Hong Kong Chinese Materia Medica Standards Volume 4 to 8, App. X(2) 香港中藥材標準第四至八冊，附錄 X(2)
	- Determination of Extractives 浸出物	Hong Kong Chinese Materia Medica Standards Volume 1 to 8, App. XI 香港中藥材標準第一至八冊，附錄 XI
Radix Ginseng . 人參	- Physicochemical identification 理化鑒別 - Thin-layer chromatographic identification 薄層色譜鑒別 - High-performance liquid chromatographic Fingerprinting 高效液相色譜指紋圖譜鑒別 - Assay 含量測定	Hong Kong Chinese Materia Medica Standards Volume 1 香港中藥材標準第一冊

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司
10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Chinese Medicine 中藥

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Chinese Materia Medica (con't) 中藥材	Chemical and physicochemical tests:- (con't)	
Radix Paeoniae Alba 白芍	- Physicochemical identification 理化鑒別 - Thin-layer chromatographic identification 薄層色譜鑒別 - High-performance liquid chromatographic fingerprinting 高效液相色譜指紋圖譜鑒別 - Assay 含量測定	Hong Kong Chinese Materia Medica Standards Volume 2 香港中藥材標準第二冊
Fructus Forsythiae 連翹 Radix Panacis Quinquefolii 西洋參 Rhizoma Belamcandae 射干 Rhizoma Gastrodiae 天麻	- Thin-layer chromatographic identification 薄層色譜鑒別 - High-performance liquid chromatographic fingerprinting 高效液相色譜指紋圖譜鑒別 - Assay 含量測定	Hong Kong Chinese Materia Medica Standards Volume 3 香港中藥材標準第三冊
	Microscopic examination:-	
Radix Ginseng 人參	- Microscopic identification 顯微鑒別	Hong Kong Chinese Materia Medica Standards Volume 1 香港中藥材標準第一冊
Radix Paeoniae Alba 白芍	- Microscopic identification 顯微鑒別	Hong Kong Chinese Materia Medica Standards Volume 2 香港中藥材標準第二冊
Fructus Forsythiae 連翹 Radix Panacis Quinquefolii 西洋參 Rhizoma Belamcandae 射干 Rhizoma Gastrodiae 天麻	- Microscopic identification 顯微鑒別	Hong Kong Chinese Materia Medica Standards Volume 3 香港中藥材標準第三冊

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Chinese Medicine 中藥

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Chinese Materia Medica (con't) 中藥材	Pesticides residues:-	
Seed - Semen Cassiae 決明子	- Organochlorine pesticides: Aldrin, Dieldrin, Endrin, cis-Chlordane, trans-Chlordane, Oxychlordane, Heptachlor, Heptachlor epoxide, Hexachlorobenzene, Hexachlorocyclohexane isomers (alpha-, beta- and delta-BHC), Lindane, Pentachloroaniline, Methyl pentachlorophenyl sulphide, Quintozene (pentachloronitrobenzene), 2,4'-DDT, 4,4'-DDT, 4,4'-DDE and 4,4'-DDD	Hong Kong Chinese Materia Medica Standards Volume 3, App. VI （香港中藥材標準第三冊，附錄 VI）
Seed - Trichosanthis Semen 瓜蔞子	- Organochlorine pesticides: Aldrin, Dieldrin, Endrin, cis-Chlordane, trans-Chlordane, Oxychlordane, Heptachlor, Heptachlor epoxide, Hexachlorobenzene, Hexachlorocyclohexane isomers (alpha-, beta- and delta-BHC), Lindane, Pentachloroaniline, Methyl pentachlorophenyl sulphide, Quintozene (pentachloronitrobenzene), 2,4'-DDT, 4,4'-DDT, 4,4'-DDE and 4,4'-DDD	Hong Kong Chinese Materia Medica Standards Volume 5, App. VI （香港中藥材標準第五冊，附錄 VI）
Seed - Allii Tuberosi Semen 韮菜子	- Organochlorine pesticides: Aldrin, Dieldrin, Endrin, cis-Chlordane, trans-Chlordane, Oxychlordane, Heptachlor, Heptachlor epoxide, Hexachlorobenzene, Hexachlorocyclohexane isomers (alpha-, beta- and delta-BHC), Lindane, Pentachloroaniline, Methyl pentachlorophenyl sulphide, Quintozene (pentachloronitrobenzene), 2,4'-DDT, 4,4'-DDT, 4,4'-DDE and 4,4'-DDD	Hong Kong Chinese Materia Medica Standards Volume 6, App. VI （香港中藥材標準第六冊，附錄 VI）

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Chinese Medicine 中藥

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Chinese Materia Medica (con't) 中藥材	Pesticides residues:-	
Caulis - Perillae Caulis 紫蘇梗	- Organochlorine pesticides: Aldrin, Dieldrin, Endrin, cis-Chlordane, trans-Chlordane, Oxychlordane, Heptachlor, Heptachlor epoxide, Hexachlorobenzene, Hexachlorocyclohexane isomers (alpha-, beta- and delta-BHC), Lindane, Pentachloroaniline, Methyl pentachlorophenyl sulphide, Quintozene (pentachloronitrobenzene), 2,4'-DDT, 4,4'-DDT, 4,4'-DDE and 4,4'-DDD	Hong Kong Chinese Materia Medica Standards Volume 5, App. VI （香港中藥材標準第五冊，附錄VI）
Herba - Cistanches Herba 肉蓯蓉	- Organochlorine pesticides: Aldrin, Dieldrin, Endrin, cis-Chlordane, trans-Chlordane, Oxychlordane, Heptachlor, Heptachlor epoxide, Hexachlorobenzene, Hexachlorocyclohexane isomers (alpha-, beta- and delta-BHC), Lindane, Pentachloroaniline, Methyl pentachlorophenyl sulphide, Quintozene (pentachloronitrobenzene), 2,4'-DDT, 4,4'-DDT, 4,4'-DDE and 4,4'-DDD.	Hong Kong Chinese Materia Medica Standards Volume 4, App. VI （香港中藥材標準第四冊，附錄VI）

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司
10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Chinese Medicine 中藥

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Proprietary Chinese Medicines	Microbiological examinations :-	
	- Microbial Limit Test 微生物限度檢查法: Aerobic bacteria count 細菌數 Mold and Yeast count 霉菌與酵母菌數 *E. coli* 大腸桿菌 *Salmonella* 沙門菌 *Pseudomonas aeruginosa* 銅綠假單胞菌 *Staphylococcus aureus* 金黃色葡萄球菌	Pharmacopoeia of the People's Republic of China, 2000, Volume I, App. XIIIC 中華人民共和國藥典 2000 年版一部 附錄XIIIC
	- Microbial Limit Test 微生物限度檢查法: Aerobic bacteria count 細菌數 Mold and Yeast count 霉菌與酵母菌數 Coliform 大腸菌群 *E. coli* 大腸埃希菌 *Salmonella* 沙門菌 *Pseudomonas aeruginosa* 銅綠假單胞菌 *Staphylococcus aureus* 金黃色葡萄球菌 *Clostridium* 梭菌	Pharmacopoeia of the People's Republic of China, 2005, Volume I, App. XIII C 中華人民共和國藥典 2005 年版一部 附錄XIIIC
	- Microbial Limit Test 微生物限度檢查法: Aerobic bacteria count 細菌數 Mold and Yeast count 霉菌與酵母菌數 Coliform 大腸菌群 *E. coli* 大腸埃希菌 *Salmonella* 沙門菌 *Pseudomonas aeruginosa* 銅綠假單胞菌 *Staphylococcus aureus* 金黃色葡萄球菌 *Clostridium* 梭菌 *Candida albicans* 白色念珠菌	Pharmacopoeia of the People's Republic of China, 2010, Volume I, Appendix XIII C 中華人民共和國藥典 2010 年版一部 附錄XIIIC
Proprietary Chinese Medicines (Non-sterile products)	- Microbial Enumeration Tests 微生物限度檢查法: Total aerobic microbial count 需氧菌總數 Total mold and yeast count 霉菌與酵母菌總數 - Tests for specific microorganism 控制菌檢查法: Bile-tolerant Gram-negative bacteria detection 耐膽鹽革蘭陰性菌 *E. coli* 大腸埃希菌 *Salmonella* 沙門菌 *Pseudomonas aeruginosa* 銅綠假單胞菌 *Staphylococcus aureus* 金黃色葡萄球菌 *Clostridium* 梭菌 *Candida albicans* 白色念珠菌	Pharmacopoeia of the People's Republic of China, 2015, Volume IV, General Chapter 1105 and 1106 中華人民共和國藥典2015年版四部, 通則1105及1106

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Electrical and Electronic Products 電氣及電子產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	EMC tests :- Emission tests	
Unintentional radiator	- Measurement of radiated emission 9 kHz to 40 GHz - Measurement of conducted emission 150 kHz to 30 MHz	47 CFR Part 15 Subpart A and Subpart B using test methods specified in ANSI C63.4-2014
Intentional radiator	- Measurement of radiated emission - 9 kHz to 40 GHz - Measurement of conducted emission - 150 kHz to 30 MHz	47 CFR Part 15 Subpart A and Subpart C using test methods specified in ANSI C63.10-2013
Unlicensed national information infrastructure device with dynamic frequency selection	- Measurement of radiated emission - 9 kHz to 40 GHz - Measurement of conducted emission - 150 kHz to 30 MHz	47 CFR Part 15 Subpart A and Subpart E using test methods specified in FCC KDB Publication 905462 D02 UNII DFS Compliance Procedures New Rules v02
Unlicensed national information infrastructure device without dynamic frequency selection	- Measurement of radiated emission - 9 kHz to 40 GHz - Measurement of conducted emission - 150 kHz to 30 MHz	47 CFR Part 15 Subpart A and Subpart E using test methods specified in ANSI C63.10-2013
Ultra-wideband intentional radiator	- Measurement of radiated emission - 9 kHz to 40 GHz - Measurement of conducted emission - 150 kHz to 30 MHz	47 CFR Part 15 Subpart A and Subpart F using test methods specified in ANSI C63.10-2013
White space device intentional radiator	- Measurement of radiated emission - 9 kHz to 40 GHz - Measurement of conducted emission - 150 kHz to 30 MHz	47 CFR Part 15 Subpart A and Subpart H using test methods specified in ANSI C63.10-2013
Consumer ISM equipment	- Measurement of radiated emission 9 kHz to 40 GHz - Measurement of conducted emission 9 kHz to 30 MHz	47 CFR Part 18 using test methods specified in FCC/OET MP-5: 1986

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Electrical and Electronic Products 電氣及電子產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	EMC tests :- Emission tests	
Licence-exempt radio apparatus: category I equipment	- Measurement of radiated emission - 9 kHz to 40 GHz - Measurement of conducted emission - 150 kHz to 30 MHz - Measurement of conducted emission at antenna terminal - 9 kHz to 40 GHz	RSS-210 Issue 10, December 2019 + Amendment (April 2020) in conjunction with RSS-Gen Issue 5, April 2018 + Amendment 1 (March 2019) + Amendment 2 (February 2021) using test methods specified in ANSI C63.10-2013
Licence-exempt radio apparatus: category II equipment	- Measurement of radiated emission - 9 kHz to 40 GHz - Measurement of conducted emission - 150 kHz to 30 MHz - Measurement of conducted emission at antenna terminal - 9 kHz to 40 GHz	RSS-310 Issue 5, January 2020 in conjunction with RSS-Gen Issue 5, April 2018 + Amendment 1 (March 2019) + Amendment 2 (February 2021) using test methods specified in ANSI C63.10-2013
Digital transmission system , frequency hopping system and licence- exempt local area network devices	- Measurement of radiated emission - 9 kHz to 40 GHz - Measurement of conducted emission - 150 kHz to 30 MHz - Measurement of conducted emission at antenna terminal - 9 kHz to 40 GHz	RSS-247 Issue 2, February 2017 in conjunction with RSS-Gen Issue 5, April 2018 using test methods specified in ANSI C63.10-2013

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Electrical and Electronic Products 電氣及電子產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	EMC tests :- Emission tests	
Devices using ultra-wideband technology	- Measurement of radiated emission - 9 kHz to 40 GHz - Measurement of conducted emission - 150 kHz to 30 MHz - Measurement of conducted emission at antenna terminal - 9 kHz to 40 GHz	RSS-220 Issue 1, March 2009 + Amendment 1 (July 2018) in conjunction with RSS-Gen Issue 5, April 2018 using test methods specified in ANSI C63.10-2013
White space device	- Measurement of radiated emission - 9 kHz to 40 GHz - Measurement of conducted emission - 150 kHz to 30 MHz - Measurement of conducted emission at antenna terminal - 9 kHz to 40 GHz	RSS-222 Issue 1, February 2015 in conjunction with RSS-Gen Issue 5, April 2018 using test methods specified in ANSI C63.10-2013
Radiocommunication apparatus that are designed to be used within the vicinity of the human body	- RF explosure evaluation (by measurement) - 100 kHz to 6 GHz	RSS-102 Issue 5, March 2015 using test methods specified in IEEE C95.3-2002
	- Nerve simulation test (by measurement) - 100 kHz to 10 MHz	RSS-102 Issue 5, March 2015 using test methods specified in SPR-002 Issue 1, September 2016
Inductrial, scientific and medical equipment	- Measurement of radiated emission - 9 kHz to 40 GHz - Measurement of conducted emission - 9 kHz to 30 MHz	ICES-001 Issue 5, July 2020 using the methods specified in CSA CISPR 11:19

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	EMC tests :- Emission tests	
Information technology equipment	- Measurement of radiated emission - 9 kHz to 40 GHz - Measurement of conducted emission - 150 kHz to 30 MHz	ICES-003 Issue 7, October 2020 using the methods specified in ANSI C63.4-2014
Lighting equipment	- Measurement of radiated emission - 9 kHz to 1000 MHz - Measurement of conducted emission - 9 kHz to 30 MHz	ICES-005 Issue 5, December 2018 using the methods specified in ANSI C63.4-2014

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Electrical and Electronic Products 電氣及電子產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	EMC tests :- Emission tests	
Sound and television broadcast receiver and associated equipment - sound broadcast receiver - laser disc player - audio amplifier - combination of the above equipment	- Measurement of terminal disturbance voltage - 150 kHz to 30 MHz - Measurement of disturbance power - 30 MHz to 300 MHz - Measurement of radiated disturbances - 30 MHz to 1000 MHz - Measurement of disturbance voltage at antenna terminals - 30 MHz to 2150 MHz - Measurement of wanted signal and disturbance voltage at the RF output terminals - 30 MHz to 2150 MHz	AS/NZS CISPR 13: 2012 + A1: 2015 CISPR 13: 2009 CISPR 13: 2015 EN 55013: 2013 + A1 : 2016
Sound and television broadcast receiver and associated equipment - sound broadcast receiver - laser disc player - audio amplifier - combination of the above equipment	- Measurement of terminal disturbance voltage - 150 kHz to 30 MHz - Measurement of disturbance power - 30 MHz to 300 MHz - Measurement of radiated disturbances - 30 MHz to 1000 MHz - Measurement of disturbance voltage at antenna terminals - 30 MHz to 2150 MHz - Measurement of wanted signal and disturbance voltage at the RF output terminals - 30 MHz to 2150 MHz	GB/T 13837-2012
聲音和電視廣播接收機及有關設備 - 聲音廣播接收機 - 激光視盤播放機 - 音頻放大器 - 以上設備的組合	- 端子騷擾電壓測量 - 150 kHz to 30 MHz - 騷擾功率測量 - 30 MHz to 300 MHz - 輻射騷擾測量 - 30 MHz to 1000 MHz - 天綫端騷擾電壓測量 - 30 MHz to 2150 MHz - RF 輸出端有用信號和騷擾電壓測量 - 30 MHz to 2150 MHz	GB/T 13837-2012

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	EMC tests :- Emission tests	
Electric and electronic toys, household appliance, electric tool and similar apparatus < ***Excluding the following*** > - three-phase equipment	- Measurement of disturbance voltage - 150 kHz to 30 MHz - Measurement of disturbance power - 30 MHz to 300 MHz - Measurement of radiated disturbance - 9 kHz to 1000 MHz	AS/NZS CISPR 14.1: 2013 CISPR 14-1: 2005 + A1: 2008 + A2: 2011 EN 55014-1: 2006 + A1: 2009 + A2: 2011 ***<Excluding the following>*** for the above three standards Cl. 7.3.1.10, 7.3.1.11, 7.3.1.12, 7.3.1.13, 7.3.5 7.3.7.10 CISPR 14-1: 2016 EN 55014-1: 2017 ***<Excluding the following>*** for the above two standards Cl. A.1.10, A.1.11, A.1.12, A.1.13, A.6, A.8.10
Electric and electronic toys, household appliance, electric tool and similar apparatus < ***Excluding the following*** > - three-phase equipment	- Measurement of disturbance voltage - 150 kHz to 30 MHz - Measurement of disturbance power - 30 MHz to 300 MHz - Measurement of radiated disturbance - 9 kHz to 1000 MHz	GB 4343.1-2009 GB 4343.1-2018 ***<Excluding the following>*** for the above two standards Cl. 7.3.1.10, 7.3.1.11, 7.3.1.12, 7.3.1.13, 7.3.5 7.3.7.10
電玩具，家用電器，電動工具和類似器具 ***<不包括>*** - 三相設備	- 騷擾電壓測量 - 150 kHz to 30 MHz - 騷擾功率測量 - 30 MHz to 300 MHz - 輻射騷擾測量 - 9 kHz to 1000 MHz	GB 4343.1-2009 GB 4343.1-2018 ***<不包括>*** 適用於以上兩項標準 Cl. 7.3.1.10, 7.3.1.11, 7.3.1.12, 7.3.1.13, 7.3.5 7.3.7.10

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	EMC tests :- Emission tests	
Luminaire, lamp and associated accessory	- Measurement of conducted disturbance voltages at mains terminals, load terminals and control terminals - 9 kHz to 30 MHz - Measurement of radiated electromagnetic disturbances - 9 kHz to 300 MHz	AS/NZS CISPR 15: 2011 <***Excluding the following*** > Cl. 5.2.3, 5.3.3, 5.3.5, 5.3.6, 5.5.5, 5.6, 5.7, 5.8, 5.9, 5.10 CISPR 15: 2013 CISPR 15: 2013 + A1: 2015 EN 55015: 2013 + A1: 2015 <***Excluding the following*** > for the above three standards Cl. 5.2.3, 5.3.3, 5.3.5, 5.3.6, 5.5.5, 5.6, 5.7, 5.8, 5.9, 5.10
	- Measurement of conducted disturbance voltages at mains terminals, load terminals and control terminals - 9 kHz to 30 MHz - Measurement of radiated electromagnetic disturbances - 9 kHz to 1000 MHz	CISPR 15: 2018 <***Excluding the following*** > Cl. 6.4.9, 6.4.10
Luminaire, lamp and associated accessory	- Measurement of conducted disturbance voltages at mains terminals, load terminals and control terminals - 9 kHz to 30 MHz - Measurement of radiated electromagnetic disturbances - 9 kHz to 300 MHz	GB/T 17743-2017 <***Excluding the following*** > Cl. 5.2.3, 5.3.3, 5.3.5, 5.3.6, 5.5.5, 5.6, 5.7, 5.8, 5.9, 5.10
燈具、照明燈和相關設備	- 電源端子、負載端子及控制端子的傳導騷擾測量 - 9 kHz to 30 MHz - 輻射電磁騷擾測量 - 9 kHz to 300 MHz	GB/T 17743-2017 <***不包括***> Cl. 5.2.3, 5.3.3, 5.3.5, 5.3.6, 5.5.5, 5.6, 5.7, 5.8, 5.9, 5.10

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	EMC tests :- Emission tests	
Information technology equipment	- Measurement of terminal disturbance voltages - 150 kHz to 30 MHz - Measurement of radiated disturbances - 30 MHz to 6 GHz	AS/NZS CISPR 22: 2009 + A1: 2010 CISPR 22: 2008 EN 55022: 2006 + A2: 2010 EN 55022: 2010 + AC:2011 ***<Excluding the following>*** for the above four standards Cl. 5.2, 9.6
Information technology equipment	- Measurement of terminal disturbance voltages - 150 kHz to 30 MHz - Measurement of radiated disturbances - 30 MHz to 6 GHz	GB/T 9254-2008 ***<Excluding the following>*** Cl. 5.2, 9.6
訊息技術設備	- 端子騷擾電壓測量 - 150 kHz to 30 MHz - 輻射騷擾測量 - 30 MHz to 6 GHz	GB/T 9254-2008 ***<不包括>*** Cl. 5.2, 9.6

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Electrical and Electronic Products 電氣及電子產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	EMC tests :- Emission tests	
Electrical and electronic equipment having an input current up to 16A and intended to be connected to a 220V, 230V or 240V, 50 Hz or 60 Hz system **< *Excluding the following* >** - three phase equipment - professional equipment	- Measurement of harmonic current	EN 61000-3-2: 2014 IEC 61000-3-2: 2014 **<*Excluding the following* >** for the above two standards Cl. C.8, C.12, C.14 IEC 61000-3-2: 2018 **<*Excluding the following* >** Cl. B.8, B.12, B.14
Electrical and electronic equipment **< *Excluding the following* >** - three phase equipment - professional equipment	- Measurement of harmonic current	GB 17625.1-2012 **<*Excluding the following* >** Cl. C.8, C.12, C.14
電氣和電子設備 ***<不包括>*** - 三相設備 - 專用設備	- 諧波電流測量	GB 17625.1-2012 ***<不包括>*** Cl. C.8, C.12, C.14

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Electrical and Electronic Products 電氣及電子產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	EMC tests :- Emission tests	
Electrical and electronic equipment having input current up to and including 16A per phase for connection to systems of 220V and 250V at 50 Hz ***<Excluding the following>*** - three phase equipment - professional equipment	-Measurement of voltage changes, voltage fluctuations and flicker - short-term flicker severity, Pst - long-term flicker severity, Plt - relative voltage change, d (t) - maximum steady-state voltage change, dc - maximum absolute voltage change, dmax	EN 61000-3-3: 2013 IEC 61000-3-3: 2013 + A1: 2017 ***<Excluding the following >*** for the above two standards Cl. 4.2.3, 4.2.4, A.3, A.14 and A.15
Electrical and electronic equipment ***<Excluding the following>*** - three phase equipment - professional equipment	-Measurement of voltage changes, voltage fluctuations and flicker - short-term flicker severity, Pst - long-term flicker severity, Plt - relative voltage change, d (t) - maximum steady-state voltage change, dc - maximum absolute voltage change, dmax	GB/T 17625.2-2007 ***<Excluding the following >*** Cl. 4.2.2, 4.2.3, A.3, A.14 and A.15
電氣和電子設備 ***<不包括>*** - 三相設備 - 專用設備	- 電壓變化、電壓波動和閃爍 - 短期閃爍指示值, Pst - 長期閃爍指示值, Plt - 相對電壓變化特性, d (t) - 最大穩態電壓變化, dc - 最大絕對電壓變化, dmax	GB/T 17625.2-2007 ***<不包括>*** Cl. 4.2.2, 4.2.3, A.3, A.14 and A.15

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	EMC tests :- Emission tests	
Lighting equipment which do not include any intentional radiator for wireless communication or control	- Determination of a compliance factor using the Van der Hoofden head test method that represents the measured induced internal electric field over the following frequency range: 20 kHz to 10 MHz	EN 62493: 2015 IEC 62493: 2015 ***<Excluding the following>*** for the above two standards Cl. 4.3
Low-voltage switch mode power supply	- Measurement of harmonic current - Measurement of voltage fluctuations and flicker - Measurement of mains terminal disturbance voltage - 150 kHz to 30 MHz - Measurement of disturbance power - 30 MHz to 300 MHz - Measurement of radiated disturbances - 30 MHz to 1000 MHz	EN IEC 61204-3: 2018 BS EN IEC 61204-3: 2018

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Electrical and Electronic Products 電氣及電子產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Angle Modulated Radio Transmitter and Receiver for Use as Base, Repeater, Mobile and Portable Equipment in the Land Mobile Radio Service	Telecommunications equipment tests :- Test For Transmitter: - Carrier power - Frequency error - Frequency deviation - Adjacent channel power - Spurious emissions Test For Receiver: - Usable sensitivity - Adjacent channel selectivity - Intermodulation response rejection - Blocking or desensitization - Spurious response rejection - Receiver spurious emissions Test For Repeater: - Carrier power - Spurious emissions - Intermodulation attenuation	HKTA 1002 Issue 6 (2008)

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Electrical and Electronic Products 電氣及電子產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Telecommunications equipment tests :- (cont'd)	
Low Power Radio Microphones Including Associated Receiving Equipment	Test For Transmitter: - Frequency error - Transmitter output power - Maximum permissible frequency deviation - Spurious emissions Test For Receiver: - Receiver spurious emissions	HKTA 1008 Issue 4 (2013)
Angle Modulated Radio Transmitter and Receiver for Use as Base, Mobile and Portable Equipment in the Land Mobile Radio Service and Intended Primarily for Data Applications	Test For Transmitter: - Carrier power - Frequency error - Adjacent channel power - Spurious emissions Test For Receiver: - Usable sensitivity - Adjacent channel selectivity - Intermodulation response rejection - Blocking or desensitization - Spurious response rejection - Receiver spurious emissions	HKTA 1010 Issue 1 (2003)

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Electrical and Electronic Products 電氣及電子產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Telecommunications equipment tests :-	
Angle Modulated Radio Equipment for Use as Repeater, Base and Mobile Stations in the 800 MHz Trunked Radio	Test For Transmitter: - Carrier power - Frequency error - Frequency deviation - Spurious emissions Test For Receiver: - Usable sensitivity - Adjacent channel selectivity - Intermodulation response rejection - Spurious response rejection - Receiver spurious emissions Test for Repeater: - Carrier power - Spurious emissions - Intermodulation attenuation	HKTA 1016 Issue 4 (2007)
Repeater Equipment for Use in the Public Mobile Radiotelephone Service(PMRS) Employing Global System for Mobile Communications (GSM) or in the Personal Communications Service (PCS)	Test For Repeaters - Spurious Emissions - Intermodulation Attenuation - Out of band Gain	HKTA 1020 Issue 7 (2011)
Radio Equipment Exempted From Licensing	Test For Transmitter: - Fundamental Emission - Power Spectral Density - Spurious Emission	HKCA 1035 Issue 7 (2016) ***<Excluding the following>*** Cl. 1.4; spurious emission test over 40 GHz

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Telecommunications equipment tests :-	
Radiocommunications Apparatus Operating in the 409 MHz Band as Short- Range Portable Radio	Test For Transmitter: - Effective radiated power - Frequency error - Adjacent channel power - Spurious emissions Test For Receiver: - Receiver spurious emissions	HKTA 1044 Issue 1 (2003)
Telephone, fax machine, dial-up modem, answering machine and recording machine	- Test of customer premises equipment for connection to direct exchange lines of the public switched telephone network in Hong Kong	HKTA 2011 Issue 6 (2010) ***<Excluding the following>*** Cl. 2, 7.6

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Environmental Testing 環境測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Water and Wastewater	Physical examination :-	
	- Total Suspended Solids dried at 103 - 105℃	APHA 17e 2540 D
	Organic Pollutants :-	
	- Oil and grease	APHA 19e 5520 B
	- Chemical Oxygen Demand	APHA 20e 5220 B (Open reflux)
Tap Water	Physical Examination:-	
	- Color	APHA 22e 2120 B
		AWWA Manual M12 sixth edition Simplified Procedures for Water Examination Ch. 12 (The definition of True Color Unit (TCU) is based on AWWA Water Operator Field Guide 2nd edition) ***<Excluding the following>*** Spectrophotometer Method
	- Conductivity	APHA 22e 2510 B
	- pH Value	APHA 22e 4500-H^+ B
	- Turbidity	APHA 22e 2130 B
	Non-metallic constituents :-	
	- Residual free chlorine	In-house method CFD/STP/ENV/209 (by DPD Colorimetric Method)

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Tap Water (having a turbidity of < 1 NTU)	Trace metals (Total recoverable):- - Antimony - Arsenic - Barium - Cadmium - Copper - Chromium - Iron - Lead - Mercury - Nickel - Manganese - Molybdenum - Selenium - Zinc	In-house method CFD/STP/ENV/216 (by ICP-MS)

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Environmental Testing 環境測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Water and Wastewater	Microbial indicators :-	
	- Fecal Coliform	APHA 20e 9222 D (By membrane filtration technique)
	- Heterotrophic plate count	APHA 20e 9215A and 9215B (By convention plate count (Pour plate count))
	- Coliform count	DoE (1983) The Bacteriological Examination of Drinking Water Supplies 1982 (Membrane Filtration Procedure: Sections 7.8, 7.9.4.1; Bacterial Confirmation: Section 7.9.4.3)
	- *E. coli*	DoE (1983) The Bacteriological Examination of Drinking Water Supplies 1982 (Membrane Filtration Procedure: Sections 7.8, 7.9.4.2; Bacterial Confirmation: in situ urease test)
Water, Wastewater, and Cooling Tower Water	Microbiological tests :-	
	- Legionellae spp. including *Legionella pneumophila*	AS/NZS 3896: 2008
	-	

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Food containers (ceramic ware)	Toxicological tests :- - Leachable cadmium and lead	BS EN 1388-1: 1996 BS 6748: 1986 + A1: 2011 ISO 6486-1: 1999 Council Directive 84/500/EEC as amended by Commission Directive 2005/31/EC US FDA Compliance Policy Guides 7117.06 (2005) & 7117.07 Section 545.400 & 545.450 (2005) *Test procedures for compliance testing:* AOAC 973.32 (2005) AOAC 973.82 (2005) ASTM C738 - 94 (Reapproved 2016)
Food containers (glassware)	- Leachable lead and cadmium	BS EN 1388-2: 1996 ISO 6486-2: 1999 *Test procedure for compliance testing:* ISO 6486-1: 1999
Food containers (glassware & enamel ware)	- Leachable lead and cadmium	BS 6748: 1986 + A1: 2011
Food containers (glass tumblers)	- Leachable lead and cadmium	ASTM C927 - 80 (Reapproved 2014)
Food containers (silver ware)	- Leachable lead	US FDA Compliance Policy Guides 7117.05 (2005) Section 545.500 (2005) *Test procedures for compliance testing:* AOAC 973.32 (2000) AOAC 973.32 (2005) AOAC 973.82 (2000) AOAC 973.82 (2005) ASTM C738 - 94 (Reapproved 2016)
Food containers (Plastic materials and articles in contact with food)	- Overall migration	EN 1186-1: 2002 EN 1186-3: 2002 EN 1186-9: 2002 EN 1186-14: 2002 ***<Excluding the following>*** *Cell and Pouch Methods*

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Toxicological tests (cont'd):-	
Food containers (Melamine kitchenware)	- Formaldehyde and HMTA (time-temperature exposure condition of 2 hours at 70 °C)	Commission Regulation (EU) No. 284/2011 of 22 March 2011, *Article 3*, cl. 3(b) *Test procedure for compliance testing:* European Commission Joint Research Centre - Technical Guidelines on Testing the Migration of Primary Aromatic Amines from Polyamide Kitchenware and of Formaldehyde from Melamine Kitchenware, EUR 24815 EN 2011, Section 7 and Section 8.3
	- Melamine (time-temperature exposure condition of 2 hours at 70 °C)	BS EN 13130-1: 2004 (Sample preparation – 3% (w/v) acetic acid as simulant) and In-house method CFD/STP/FC/031 (determination by HPLC-DAD)

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Toxicological tests (cont'd):-	
Food containers (LDPE, HDPE, PET)		Japan Food Sanitation Law, Ministry of Health and Welfare Notification No. 370, 28 Nov 1959, Notification No. 201, 31 Mar 2006 and Notice No. 416, 11 Aug 2008, Part III – Implements, Containers and Packaging *Test procedures for compliance testing:* Specification, Standards and Testing Methods for Foodstuffs, Implements, Containers and Packaging, Toys, Detergents 2008 - Part II (English version published by JETRO, January) 2009
	- Consumption of potassium permanganate	Section B1 & B10 & D2 (1) b (ii)
	- Heavy metals as lead	Section B4 & B10 & D2 (1) b (i)

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Oil and fat	Characteristic of oil and fat :- - Acid value	ISO 660: 2009 (Hot ethanol method) ***<Excluding the following>*** *Cold solvent and potentiometric Methods*
	- Peroxide value	BS EN ISO 3960: 2017
Mooncake	Composition and characteristic of mooncake:-	
	- Moisture 水份	GB 5009.3-2010 (第一法, 直接干燥法)
	- Fat 脂肪	GB 19855-2005 Cl. 6.2 理化指標的檢驗 Cl. 6.2.4 *Test Procedures for Compliance Testing:* GB/T 5009.6-2003 (第二法，酸水解法)
	- Acid value 酸價(以油脂中的含量計)	GB 19855-2005 Cl. 5.4 衛生指標 and GB 7099-2003 Cl. 4.3 理化指標 表 1 (除總砷、鉛、黃曲霉毒素 B_1) *Test Procedures for Compliance Testing:* GB/T 5009.56-2003 Cl. 4.1, Cl. 4.2.1, Cl. 4.3 and GB/T 5009.37-2003 Cl. 4.1
	- Peroxide value 過氧化值(以油脂中的含量計)	GB/T 5009.56-2003 Cl. 4.1, Cl. 4.2.1, Cl. 4.4 and GB/T 5009.37-2003 Cl. 4.2 (第一法，滴定法) GB 5009.227-2016 (第一法，滴定法)
Milk and dairy products	Composition and quality of milk :-	
	- Total solids	AOAC (1990) 925.23 Method I
Animal feeds	Composition of animal feeds :-	
	- Ash content	AOAC Official Methods 942.05 (2008)
	- Moisture content	AOAC Official Methods 930.15 (2005)
	- Fat (crude)	AOAC Official Methods 954.02 (2005)
	- Protein (crude)	AOAC Official Methods 954.01 (2005)
Meat	Moisture content	AOAC Official Methods 950.46B (2008)

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Seafood	Salt content (chlorine as sodium chloride)	AOAC Official Methods 937.09 (2005)
General foodstuff	Composition of general foodstuff :-	
	- Ash content	In-house Method CFD/STP/FOD/274
	- Moisture content	In-house Method CFD/STP/FOD/273
	- Protein	In-house method CFD/STP/FOD/275 (Kjeldahl method)
	Trace metals:- - Antimony, Arsenic, Cadmium, Chromium, Lead, Mercury, Tin	In-house Method CFD/STP/FOD/291 (By ICP-MS)
	Metals:- - Sodium	In-house method CFD/STP/FOD/270 (By ICP-AES)
Fish	Trace metals:- - Methyl mercury- screening (by calculation based on the result of total mercury)	In-house Method CFD/STP/FOD/291 (ICP-MS)
	- Methyl mercury - quantitative	In-house Method CFD/STP/FOD/295 (HPLC-ICP-MS)
Rice, aquatic products, fish oil and seaweed	- Inorganic arsenic	In-house Method CFD/STP/FOD/294 (IC-ICP-MS)
Bottled or packed drinking water and mineral water	Trace metals:- - Antimony, Arsenic, Barium, Boron, Cadmium, Chromium, Copper, Lead, Manganese, Mercury, Nickel, Selenium, Tin, Uranium	In-house Method CFD/STP/FOD/293 (By ICP-MS)

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Preservatives:-	
Beverage	- Benzoic acid - Sorbic acid	GB/T 5009.29-2003 (CFD/STP/FOD/241)
Flour confectionary	- Propionic acid	In-house method CFD/STP/FOD/268 (By GC-MS)
General foodstuff	- Benzoic acid, Sorbic acid, Salicylic acid, Methyl para-hydroxybenzoate, Ethyl para-hydroxybenzoate and Propyl para-hydroxybenzoate	In-house method CFD/STP/FOD/259 (By HPLC-DAD)
	- Nitrate and Nitrite	In-house method CFD/STP/FOD/260 (By HPLC)
	- Boric acid	In-house method CFD/STP/FOD/267 (By ICP-AES)
	- Sulphur dioxide	AOAC Official Method 990.28 (2005) (CFD/STP/FOD/242)
	- Sulphur dioxide	In-house method CFD/STP/FOD/257 (By lead acetate paper)

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Contaminants:-	
General foodstuff	Melamine	In-house method CFD/STP/FOD/258 (By LC-MS/MS)
Oil	Benzo(a)pyrene	In-house method CFD/STP/FOD/278 (By UPLC-FLD)
	Mycotoxins: -	
General foodstuff	- Aflatoxins B_1, B_2, G_1, G_2	In-house Method CFD/STP/FOD/286 (By HPLC-FLD)
Oils, nuts and cereals	- Aflatoxins B_1, B_2, G_1, G_2	In-house Method CFD/STP/FOD/276 (By HPLC-FLD)
	- Determination of phthalates content	
Beverage	Dibutyl phthalate Benzyl butyl phthalate Bis (2-ethylhexyl) phthalate Di-n-octyl phthalate Di-isononyl phthalate Di-isodecyl phthalate	In-house method CFD/STP/FOD/272 (GC-MSD)
General foodstuff	Dibutyl phthalate Benzyl butyl phthalate Bis (2-ethylhexyl) phthalate Di-n-octyl phthalate Di-isononyl phthalate Di-isodecyl phthalate	In-house method CFD/STP/FOD/285 (GC-MSD)
	- Colouring matter:-	
	Sudan I, Sudan II, Sudan III, Sudan IV, Sudan Orange G, Dimethyl Yellow, Sudan Red 7B	In-house method CFD/STP/FOD/269 (LC-MS/MS)

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Veterinary drug residues:-	
Honey	- Chloramphenicol	In-house Method CFD/STP/FOD/244 (By LC-MS/MS)
Meat and Aquatic Products	- Chloramphenicol	In-house Method CFD/STP/FOD/266 (By LC-MS/MS)
Fish tissue	- Malachite green and Leucomalachite green	In-house Method CFD/STP/FOD/249 (By LC-MS/MS)
Aquatic Products	- Malachite green and Leucomalachite green	In-house Method CFD/STP/FOD/249 (By LC-MS/MS)

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Tests for genetically modified organism (GMO):	
Soy and soy derived foodstuff (except liquid, oil)	Qualitative screening of transgenic traits using partial sequence of :- - Soy lectin gene (le 1) - Cauliflower mosaic virus promoter (CaMV35S) - Terminator of nopaline synthase gene from *Agrobacterium tumefaciens* (NOS)	ISO 21571: 2005 + A1: 2013 (Nucleic acid extraction) and ISO 21569: 2005 + A1:2013 (Polymerase chain reaction with gel image analysis)
	Qualitative screening of transgenic traits Roundup ready Soya (RRS) using partial sequence of :- - Soy lectin gene (le 1) - Cauliflower mosaic virus promoter (CaMV35S) - Terminator of nopaline synthase gene from *Agrobacterium tumefaciens* (NOS)	ISO 21571: 2005 + A1: 2013 (Nucleic acid extraction) and ISO 21569: 2005 + A1:2013 (Polymerase chain reaction with gel image analysis) and
	- The junction between 35S promoter (CaMV35S) from Cauliflower mosaic virus and the chloroplast targeting signal of *Petunia hybrid* preceding the sequence of *Agrobacterium* 5-enolpyruvylshikimate -3- phosphate synthase gene (epsps)	ISO 21570: 2005 + A1:2013 (Real-time polymerase chain reaction) and
	- The junction between the chloroplast transit peptide (CTP) sequence from *Petunia hybrida* 5-enolpyruvylshikimate-3-phosphate synthase (epsps) gene and the CP4 epsps gene from *Agrobacterium tumefaciens*	JRC Compendium of Reference Methods for GMO Analysis (QL-CON-00-001) (5/10/2016) (Real-time polymerase chain reaction)

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Tests for genetically modified organism (GMO):	
Maize and maize derived foodstuff (except liquid, oil)	Qualitative screening of transgenic traits using partial sequence of :- - Maize invertase gene IVR1 - Cauliflower mosaic virus promoter (CaMV35S) - Terminator of nopaline synthase gene from *Agrobacterium tumefaciens* (NOS)	ISO 21571: 2005 + A1: 2013 (Nucleic acid extraction) and ISO 21569: 2005 + A1:2013 (Polymerase chain reaction with gel image analysis)
	Qualitative screening of transgenic traits Bt11 using partial sequence of :- - Maize invertase gene IVR1 - Cauliflower mosaic virus promoter (CaMV35S) - Terminator of nopaline synthase gene from *Agrobacterium tumefaciens* (NOS)	ISO 21571: 2005 + A1: 2013 (Nucleic acid extraction) and ISO 21569: 2005 + A1:2013 (Polymerase chain reaction with gel image analysis) and
	- The junction between cry1A(b) gene derived from *Bacillus thuringiensis* and the intron sequence of maize alcohol dehydrogenase 1 gene (adh1)	ISO 21570: 2005 + A1:2013 (Real-time polymerase chain reaction) and
	- The junction between 35S promoter (CaMV35S) from Cauliflower mosaic virus and modified phosphinothricin acetyltransferase gene (pat) from *Streptomyces viridochromogenes*	ISO/TS 21569-3: 2020 (Real-time polymerase chain reaction)

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
General foodstuff	Microbiological tests :-	
	- Aerobic Plate count	US FDA Bacteriological Analytical Manual Online (BAM online), Ch. 1, April 2003 & Ch. 3, January 2001 (Conventional Plate Count Method) GB 4789.2-2022
	- Coliform count	US FDA Bacteriological Analytical Manual Online (BAM online), Ch. 4, September 2002 GB 4789.3-2016
	- Fecal Coliform count	US FDA Bacteriological Analytical Manual Online (BAM online), Ch. 4, September 2002 (MPN Method) US FDA Bacteriological Analytical Manual Online (BAM online), Ch. 4, February 2013 (MPN Method)
	- *E. coli* count	US FDA Bacteriological Analytical Manual Online (BAM online), Ch. 4, September 2002 GB 4789.38-2012
	- Enterococcus	Compendium of Methods for the Microbiological Examination of Foods (APHA), 4thEdition, 2001
	- Campylobacter	Public Health England FNES15 [F21]
	- *Salmonella*	US FDA Bacteriological Analytical Manual Online (BAM online), Ch. 5, November 2011 (Isolation and Identification) GB 4789.4-2016
	- *Staphylococcus aureus*	US FDA Bacteriological Analytical Manual Online (BAM online), Ch. 12, January 2001 (Direct Plate Count Method) GB 4789.10-2016
	- Mold and yeast (total) counts	US FDA Bacteriological Analytical Manual Online (BAM online), Ch. 18, April 2001 (Conventional Plate Count Method)
	- Mold and yeast counts	GB 4789.15-2016

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Miscellaneous 雜類		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Microbiological tests :-	
Disposable sanitary products	- Aerobic plate count Coliform *Pseudomonas aeruginosa* *Staphylococcus aureus* Hemolytic *Streptococcus* Molds and Yeasts count	GB 15979-2002 中华人民共和国国家标准：一次性使用卫生用品卫生标准(附录 B 产品微生物检验方法)
Cosmetics	- Standard plate count Faecal Coliform *Pseudomonas aeruginosa* *Staphylococcus aureus*	GB 7918.2 to 5-87 中华人民共和国国家标准：化妆品微生物检验方法
	Tests for microbial contamination:	The SCCS's Notes of Guidance for the Testing of Cosmetics Ingredients and Their Safety Evaluation 9th Revision, 2015 (April 2016) - Guidelines on Microbiological Quality of the Finished Cosmetic Product, 4-4.2 *Test procedures for conformity testing:*
	- Microbiological enumeration by pour plate method	- The United States Pharmacopeia 46 (2023), General Ch. <61>
	- Test for Specified Microorganisms	- The United States Pharmacopeia 46 (2023), General Chapter <62>

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Pharmaceutical Products 藥物		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Physical and chemical tests:-	
Acetaminophen tablets	a. Identification	United States Pharmacopeia 2014 (USP 37th edition)
	b. Assay	United States Pharmacopeia 2014 (USP 37th edition)
	c. Uniformity of dosage units – weight variation (uncoated and film-coated tablets)	United States Pharmacopeia 2014 (USP 37th edition) General Ch. <905>
Tablets (uncoated tablets and coated-tablets)	Disintegration	British Pharmacopoeia 2014, App. XII A, Test A

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Pharmaceutical Products 藥物

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Pharmaceutical preparations and substances for pharmaceutical use - nonsterile products	- Microbial Enumeration Tests	The United States Pharmacopeia 46 (2023) General Ch. <61>
	- Tests for Specified Microorganisms Bile-tolerant Gram-negative Bacteria *Clostridia* *Escherichia coli* *Pseudomonas aeruginosa* *Salmonella* spp. *Staphylococcus aureus* *Candida albicans*	The United States Pharmacopeia 46 (2023) General Ch. <62>
		The United States Pharmacopeia 39 (2016) General Ch. <1111> *Test procedures for conformity testing:-*
	- Microbial Enumeration Tests	The United States Pharmacopoeia 39 (2016) General Ch. <61>
	- Tests for Specified Microorganisms Bile-tolerant Gram-negative Bacteria *Clostridia* *Escherichia coli* *Pseudomonas aeruginosa* *Salmonella spp* *Staphylococcus aureus* *Candida albicans*	The United States Pharmacopeia 39 (2016) General Ch. <62>
		The United States Pharmacopeia 36 (2013) General Ch. <1111> *Test procedures for conformity testing:-*
	- Microbial Enumeration Tests	The United States Pharmacopeia 36 (2013) General Ch. <61>
	- Tests for Specified Microorganisms Bile-tolerant Gram-negative Bacteria *Clostridia* *Escherichia coli* *Pseudomonas aeruginosa* *Salmonella spp* *Staphylococcus aureus* *Candida albicans*	The United States Pharmacopeia 36 (2013) General Ch. <62>

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Pharmaceutical Products 藥物		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Pharmaceutical preparations and substances for pharmaceutical use - nonsterile products	Microbiological examination:-	
		The United States Pharmacopeia 35 (2012) General Ch. <1111> *Test procedures for conformity testing:-*
	- Microbial Enumeration Tests	The United States Pharmacopeia 35 (2012) General Ch. <61>
	- Tests for Specified Microorganisms Bile-tolerant Gram-negative Bacteria *Clostridia* *Escherichia coli* *Pseudomonas aeruginosa* *Salmonella spp* *Staphylococcus aureus* *Candida albicans*	The United States Pharmacopeia 35 (2012) General Ch. <62>
		The United States Pharmacopeia 34 (2011) General Ch. <1111> *Test procedures for conformity testing:-*
	- Microbial Enumeration Tests	The United States Pharmacopeia 34 (2011) General Ch. <61>
	- Tests for Specified Microorganisms Bile-tolerant Gram-negative Bacteria *Clostridia* *Escherichia coli* *Pseudomonas aeruginosa* *Salmonella spp* *Staphylococcus aureus*	The United States Pharmacopeia 34 (2011) General Ch. <62> ***<Excluding the following>:*** *Candida albicans*
		The United States Pharmacopeia 32 (2009) General Ch. <1111> *Test procedures for conformity testing:-*
	- Microbial Enumeration Tests	The United States Pharmacopeia 32 (2009) General Ch. <61>
	- Tests for Specified Microorganisms Bile-tolerant Gram-negative Bacteria *Clostridia* *Escherichia coli* *Pseudomonas aeruginosa* *Salmonella spp* *Staphylococcus aureus*	The United States Pharmacopeia 32 (2009) General Ch. <62> ***<Excluding the following>:*** *Candida albicans*

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Pharmaceutical Products 藥物		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Non-sterile pharmaceutical preparations and substances for pharmaceutical use	Microbiological examination:-	British Pharmacopoeia (2016) App. XVI D Microbiological Quality of Non-sterile Pharmaceutical Preparations and Substances for Pharmaceutical Use *Test procedures for conformity testing:-*
	- Tests for Specified Microorganisms Bile-tolerant Gram-negative Bacteria *Clostridia* *Escherichia coli* *Pseudomonas aeruginosa* *Salmonella spp* *Staphylococcus aureus* *Candida albicans* - Microbial Enumeration Tests	British Pharmacopoeia (2016) App. XVI B Tests for Microbial Contamination
		British Pharmacopoeia (2013) App. XVI D Microbiological Quality of Non-sterile Pharmaceutical Preparations and Substances for Pharmaceutical Use *Test procedures for conformity testing:-*
	- Tests for Specified Microorganisms Bile-tolerant Gram-negative Bacteria *Clostridia* *Escherichia coli* *Pseudomonas aeruginosa* *Salmonella spp* *Staphylococcus aureus* *Candida albicans* - Microbial Enumeration Tests	British Pharmacopoeia (2013) App. XVI B Tests for Microbial Contamination
		British Pharmacopoeia (2011) App. XVI D Microbiological Quality of Non-sterile Pharmaceutical Preparations and Substances for Pharmaceutical Use *Test procedures for conformity testing:-*
	- Tests for Specified Microorganisms Bile-tolerant Gram-negative Bacteria *Clostridia* *Escherichia coli* *Pseudomonas aeruginosa* *Salmonella spp* *Staphylococcus aureus* - Microbial Enumeration Tests	British Pharmacopoeia (2011) App. XVI B Tests for Microbial Contamination ***<Excluding the following>:*** *Candida albicans*

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Pharmaceutical Products 藥物		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Non-sterile pharmaceutical preparations and substances for pharmaceutical use	Microbiological examination:-	British Pharmacopoeia (2010) App. XVI D Microbiological Quality of Non-sterile Pharmaceutical Preparations and Substances for Pharmaceutical Use *Test procedures for conformity testing:-*
	- Tests for Specified Microorganisms Bile-tolerant Gram-negative Bacteria *Clostridia* *Escherichia coli* *Pseudomonas aeruginosa* *Salmonella spp* *Staphylococcus aureus*	British Pharmacopoeia (2010) App. XVI B Tests for Microbial Contamination ***<Excluding the following>:*** Candida albicans
	- Microbial Enumeration Tests	
Purified water	- Total aerobic microbial count	British Pharmacopoeia (2023) Volume II, Purified Water British Pharmacopoeia (2016) Volume II, Purified Water Pharmacopoeia of the People's Republic of China 2015, Volume II, Purified Water
純化水	需氧菌總數	中華人民共和國藥典2015年版二部，純化水

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Textiles and Garments 紡織品及成衣

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Flammability tests :-	
General textiles and garments		
- Apparel textiles	- Flame propagation	ASTM D1230-17 US 16 CFR Part 1610
- Textiles	- Flame propagation	CAN/CGSB 4.2 No. 27.5-2008
Other materials		
- Vinyl plastic film	- Flame propagation	US 16 CFR Part 1611
Specific Products :-		
- Bedding components	- Ignitability by smouldering cigarette and small open flame	International Maritime Organisation Resolution A.688(17) 1991, Annex
- Bed covers and pillows	- Ignitability by smouldering cigarette and flaming ignition source	BS 7175: 1989 (1994)
- Bedding items, which can normally be placed on a mattress	- Ignitability by smouldering cigarette	BS EN ISO 12952-1: 2010 EN ISO 12952-1: 2010 ISO 12952-1: 2010 < ***Excluding the following*** > for the above three standards Dry clean method (ISO 3175)

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Textiles and Garments 紡織品及成衣

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Flammability tests :- (cont'd)	
Specific Products :- (cont'd)		
- Bedding items, which can normally be placed on a mattress	- Ignitability by small open flame	BS EN ISO 12952-2: 2010 EN ISO 12952-2: 2010 ISO 12952-2: 2010 < ***Excluding the following*** > for the above three standards Dry clean method (ISO 3175)
- Camping tent	- Vertical test	BS EN ISO 5912: 2020 Cl. 6.1.1.3.2 & 6.1.1.3.3 ISO 5912: 2020 Cl. 6.1.1.3.2 & 6.1.1.3.3
- Curtains and drapes	- Vertical test	BS 5867-2: 2008 BS EN ISO 15025: 2016, surface and bottom ignition BS EN ISO 6941: 2003, surface and bottom ignition
	- Vertical test	BS EN 1101: 1996 + A1: 2006 BS EN ISO 6940: 2004
	- Vertical test	NFPA 701: 2019 Test Method 1 < ***Excluding the following***> for the above standard Cl. 16.3.1(1)
- Interior materials used in the occupants compartments of motor vehicles	- Flammability of interior materials	US 49 CFR Part 571.302 Federal Motor Vehicle Safety Standard (FMVSS) 302 Canada Technical Standards Document 302: 2007 ISO 3795: 1989

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Textiles and Garments 紡織品及成衣

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Flammability tests :- (cont'd)	
Specific Products :- (cont'd)		
- Mattresses, divans and bed bases	- Resistance to ignition	BS 7177: 1996 (Low hazard to high hazard) BS 7177: 1996 with Amendment No. 1 (Low hazard to high hazard) BS 7177: 2008 + Corr.1 (Low hazard to high hazard) BS 7177: 2008 + Corr.1 (Low hazard to high hazard) + A1: 2011 BS EN 597-1: 2015 BS EN 597-2: 2015 BS EN 597-1: 1995 BS EN 597-2: 1995 EN 597-1: 1994 EN 597-2: 1994 BS 6807: 1996 Section 2: sources 2 to 7 BS 6807: 1996 with Amendment No. 1 Section 2: sources 2 to 7 BS 6807: 2006 Clause 9: sources 2 to 7
- Mattresses	- Resistance to ignition (when exposed to a lighted cigarette) General requirements Mattress test procedures	US 16 CFR Part 1632 US 16CFR Part 1632.3 US 16 CFR Part 1632.4
- Mattress pads	General requirements Mattress pad test procedures	US 16CFR Part 1632.3 US 16 CFR Part 1632.5
- Mattresses and mattress pads	General requirements Ticking substitution procedures Tape edge substitution procedures	US 16CFR Part 1632.3 US 16 CFR Part 1632.6 US 16 CFR Part 1632.7
- Marquee	- Vertical test	BS 7837: 1996
- Nightwear	- Vertical test	The Nightwear (Safety) Regulations 1985 (Statutory Instrument 1985 No. 2043) with amendment in 1987 (Statutory Instrument 1987 No. 286) using test method BS 5722: 1984

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Textiles and Garments 紡織品及成衣

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Flammability tests :- (cont'd)	
Specific Products :- (cont'd)		
- Nightwear for children	- Vertical test	16 CFR Part 1615 16 CFR Part 1616 BS EN 14878: 2007 using BS EN 1103: 2005
- Upholstered composites for seating including	- Ignitability by smouldering and flaming ignition source	The Furniture and Furnishings (Fire) (Safety) Regulations 1988 (Statutory Instrument 1988 No. 1324) with Amendments in 1989 (Statutory Instrument 1989 No. 2358), in 1993 (Statutory Instrument 1993 No. 207) and in 2010 (Statutory Instrument 2010 No. 2205)
a) Polyurethane foam in slab or cushion form		Schedule 1 Part I using test method BS 5852: Part 2: 1982 (Ignition Source 5)
b) Polyurethane foam in crumb form		Schedule 1 Part II using test method BS 5852: Part 2: 1982 (Ignition Source 2)
c) Latex rubber foam		Schedule 1 Part III using test method BS 5852: Part 2: 1982 (Ignition Source 2)
d) Non-foam filling materials singly		Schedule 2 Part I using test method BS 5852: Part 2: 1982 (Ignition Source 2)
e) Composite fillings for furniture other than mattresses, bed-bases, cushion and pillows		Schedule 2 Part II using test method BS 5852: Part 2: 1982 (Ignition Source 2)

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Textiles and Garments 紡織品及成衣

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Flammability tests :- (cont'd)	
Specific Products :- (cont'd)		
- Upholstered composites for seating including (cont'd)	- Ignitability by smouldering and flaming ignition source (cont'd)	The Furniture and Furnishings (Fire) (Safety) Regulations 1988 (Statutory Instrument 1988 No. 1324) with Amendments in 1989 (Statutory Instrument 1989 No. 2358), in 1993 (Statutory Instrument 1993 No. 207) and in 2010 (Statutory Instrument 2010 No. 2205) (cont'd)
f) Composite fillings for pillows and cushions with primary covers		Schedule 2 Part III using test method BS 5852: Part 2: 1982 (Ignition Source 2)
g) Composite fillings of mattresses and bed-bases		Schedule 2 Part IV using test method BS 5852: Part 2: 1982 (Ignition Source 2) BS 6807: 1986 Section 4
h) Interliner		Schedule 3 using test method BS 5852: Part 2: 1982 (Ignition Source 5)
i) Visible part of upholstery		Schedule 4 Part I using test method BS 5852: Part 1: 1979 (Cigarette test)
j) Non-visible part of upholstery		Schedule 4 Part II using test method BS 5852: Part 1: 1979 (Cigarette test)
k) Visible cover		Schedule 5 Part I using test method BS 5852: Part 1: 1979 (Ignition Source 1)
l) Stretch cover		Schedule 5 Part II using test method BS 5852: Part 1: 1979 (Ignition Source 1)
m) Non-visible cover		Schedule 5 Part III using test method BS 5852: Part 1: 1979 (Ignition Source 1)
- Upholstered furniture (Non-domestic seating)	- Resistance to ignition (Testing composite)	BS 7176: 1995 (Low hazard to high hazard) BS 7176: 1995 with Amendment No. 1 (Low hazard to high hazard) BS 7176: 2007 (Low hazard to high hazard) BS 7176: 2007 (Low hazard to high hazard) + A1: 2011 ***<Excluding the following>*** For the above four standards Dry cleaning fabrics

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Textiles and Garments 紡織品及成衣

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Flammability tests :- (cont'd)	
Specific Products :- (cont'd)		
- Upholstered furniture (Actual composite filling and covering materials)	- Smouldering ignitability	AS/NZS 4088.1: 1996 Cl. 9
- Upholstered furniture (Combination materials)	- Ignitability by smouldering cigarette	AS/NZS 3744.1: 1998 BS EN 1021-1: 2014 EN 1021-1: 2014 BS EN 1021-1: 2006 EN 1021-1: 2006 BS EN 1021-1: 1994 EN 1021-1: 1993 ISO 8191-1: 1987
	- Ignitability by match-flame equivalent	AS/NZS 3744.2: 1998 BS EN 1021-2: 2014 EN 1021-2: 2014 BS EN 1021-2: 2006 EN 1021-2: 2006 BS EN 1021-2: 1994 EN 1021-2: 1993 ISO 8191-2: 1988
	- Ignitability by gas flames	AS/NZS 3744.3: 1998
	- Ignitability by smouldering and flaming ignition sources	International Maritime Organisation Resolution A.652(16) 1989, Annex BS 5852: 1990 Section 4: sources 2 to 7 BS 5852: 1990 with Amendments No. 1 and 2 Section 4: sources 2 to 7 BS 5852: 2006 Section 11: sources 2 to 7

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Textiles and Garments 紡織品及成衣

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Flammability tests :- (cont'd)	
Specific Products :- (cont'd)		
- Upholstered furniture		California Technical Bulletin 117 – 2013 State of California, Department of Consumer Affairs, Bureau of Electronic & Appliance Repair Home Furnishings and Thermal Insulation
	- Cover fabric test	Section 1
	- Barrier materials test	Section 2
	- Resilient filling material test	Section 3
	- Decking material test	Section 4

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Textiles and Garments 紡織品及成衣

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical analysis :-	
General textiles and garments	- Free formaldehyde content	BS EN ISO 14184-1: 2011 ISO 14184-1: 2011

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests :-	
Toys - paint and similar surface-coating materials	- Total lead content	ASTM F963-17, Cl. 4.3.5.1 (1) *Test procedures for compliance testing:-* CPSC Test method: CPSC-CH-E1003-09.1 Standard Operating Procedure for Lead in Paint and Other Similar Surface Coating, February 25, 2011
	- Migration of the elements Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	ASTM F963-17, Cl. 4.3.5.1 (2) *Test procedures for compliance testing:-* Cl. 8.3.2 – 8.3.4
Toys - substrate materials (excluding children's jewelry; excluding ceramic, glass, crystal and other siliceous materials)	- Total lead content	ASTM F963-17, Cl. 4.3.5.2 (2)(a) *Test procedures for compliance testing:* CPSC Test method: CPSC-CH-E1002-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Non-metal Children's Product, November 15, 2012 ***<Excluding the following>*** XRF spectrometry CPSC Test method: CPSC-CH-E1001-08.3 Standard Operating Procedure for Determining Total Lead in Children's Metal Products, (Including Children's Metal Jewelry), November 15, 2012 ***<Excluding the following>*** XRF spectrometry
Toys - substrate materials (excluding children's jewelry)	- Migration of the elements Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	ASTM F963-17, Cl. 4.3.5.2 (2)(b) *Test procedures for compliance testing:* Cl. 8.3.5

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Chemical tests :- (cont'd)	
Metallic toys (excluding children's jewelry)	Extractable cadmium	ASTM F963-17, Cl. 4.3.5.2 (2)(c) *Test procedures for compliance testing:* CPSC Test Method: CPSC-CH-E1004-11 Standard Operating Procedure for Determining Cadmium (Cd) Extractability from Children's Metal Jewelry, February 03, 2011
	Total cadmium content screening	ASTM F963-17, Cl. 4.3.5.2 (2)(d) and 8.3.1.3 *Test procedures for compliance testing:* In-house method TCD/TPM/CHM/118 (AAS)

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests :- (cont'd)	
		US Public Law 110 -314 Consumer Product Safety Improvement Act 2008 US 16 CFR Part 1303
Toys and other articles intended for use by children - paint and other similar surface-coating materials	- Total lead content	*Test procedures for compliance testing:-* CPSC Test method: CPSC-CH-E1003-09.1 Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings, February 25, 2011 ASTM F2853-10e1
- plastic, polymer and other non-siliceous materials	- Total lead content	*Test procedures for compliance testing:-* CPSC Test method: CPSC-CH-E1002-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Non-metal Children's Product, November 15, 2012 ***<Excluding the following>*** XRF spectrometry for materials other than non- PVC plastics
- non-PVC plastic	- Total lead content	*Test procedures for compliance testing:-* ASTM F2853-10e1
- metal	- Total lead content	*Test procedures for compliance testing:-* CPSC Test method: CPSC-CH-E1001-08.3 Standard Operating Procedure for Determining Total Lead in Children's Metal Products (Including Children's Metal Jewelry), November 15, 2012 ***<Excluding the following>*** XRF spectrometry

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests :- (cont'd)	
Toys	- Total lead	Canada Consumer Products Safety Act Children's Jewellery Regulations, SOR/2018-82 *Test procedures for compliance testing:* CPSC Test method: CPSC-CH-E1001-08.3 Standard Operating Procedure for Determining Total Lead in Children's Metal Products, (Including Children's Metal Jewelry), November 15, 2012 ***<Excluding the following>*** XRF spectrometry
	- Di-(2ethylhexyl) phthalate (DEHP) - Dibutyl Phthalate (DBP) - Benzyl Butyl Phthalate (BBP) - Diisononyl phthalate (DINP) - Diisodecyl phthalate (DIDP) - Di-n-octyl phthalate (DnOP)	Canada Phthalates Regulations, SOR/2016-188 *Test procedures for compliance testing:* CPSC Test method: CPSC-CH-C1001-09.3 Standard Operating Procedure for Determining Phthalate, April 1, 2010 <***Excluding the following***> Optional Sample Pre-Screen Using Infrared (IR) Spectroscopy
Toys – surface coating	- Total lead content	Canada Toys Regulations, SOR/2011-17, Section 23 (a) & (c) *Test procedures for compliance testing:* CPSC Test method: CPSC-CH-E1003-09.1 Standard Operating Procedure for Lead in Paint and Other Similar Surface Coating, February 25, 2011
	- Total mercury	In-house methods TCD/TPM/CHM/045 (by microwave digestion) and ICPMS-TCD/TPM/CHM/APPAF (by ICP-MS)
	- Migration of Antimony, Arsenic, Cadmium, Selenium and Barium	Canada Toys Regulations, SOR/2011-17, Section 23 (b) as amended by The Regulations Amending Certain Regulations Made Under the Canada Consumer Product Safety Act (Surface Coating Materials), SOR/2022-122 *Test procedures for compliance testing:* ISO 8124-3:2020/Amd.1:2023

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests :- (cont'd)	
Toys – surface coating		Canada Surface Coating Materials Regulations, SOR/2016-193 *Test procedures for compliance testing:*
	- Total lead	CPSC Test method: CPSC-CH-E1003-09.1 Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings, February 25, 2011
	- Total mercury	*Test procedures for compliance testing:* In-house methods TCD/TPM/CHM/045 (by microwave digestion) and ICPMS-TCD/TPM/CHM/APPAF (by ICP-MS)
Consumer product (excluding kitchen utensil, ceramic, glassware, clothing or clothing accessory that is intended to use by a child under 14 years of age, product that is intended to use in learning or play by a child under 14 years of age, a book or similar printed product)		Canada Consumer Products Safety Act Consumer Products Containing Lead Regulations, SOR/2018-83 *Test procedures for compliance testing:*
	- Total lead	In-house methods TCD/TPM/CHM/121 (by microwave digestion) and ICPMS-TCD/TPM/CHM/APPAF (by ICP-MS)

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests :- (cont'd)	
Textile products from toy materials	- Free formaldehyde content	BS EN ISO 14184-1: 2011
Child use and care articles	- Bisphenol A	BS EN 14350-2: 2004 Child Use and Care Articles – Drinking Equipment: Part 2: Chemical Requirements and Tests Section 4.8 and 5.5
Finger paints	- Migration of the elements Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	AS/NZS 8124.7: 2021 Cl. 4.4 *Test procedures for compliance testing:* ISO 8124-3: 2010 + Amd.1: 2014
All toys	- Migration of the elements Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	AS/NZS ISO 8124.3: 2021 (for dewaxing: Method A only) ISO 8124-3: 2010 + Amd.1: 2014 ISO 8124-3: 2020 (for dewaxing: Method A only)
	- Migration of the elements Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium, Boron	ISO 8124-3: 2020 + Amd. 1: 2023 (for dewaxing: Method A only)
	- Migration of the elements Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	GB 6675.1-2014 Cl. 5.3.3, 5.3.4 *Test procedures for compliance testing:-* GB 6675.4-2014
	- 可遷移元素 鉛, 鎘, 汞, 鉻, 砷, 鋇, 硒, 銻	GB 6675.1-2014 Cl. 5.3.3, 5.3.4 *Test procedures for compliance testing:-* GB 6675.4-2014
	- Migration of certain elements Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	GB 6675.4-2014
	- 特定元素的遷移 鉛, 鎘, 汞, 鉻, 砷, 鋇, 硒, 銻	GB 6675.4-2014

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests :- (cont'd)	
All toys	- Butyl benzyl phthalate (BBP) - Dibutyl phthalate (DBP) - Bis (2-ethylhexyl) phthalate (DEHP) - Di-n-octyl phthalate (DNOP) - Di-isononyl phthalate (DINP) - Di-isodecyl phthalate (DIDP)	GB 6675.1-2014 Cl. 5.3.7 *Test procedures for compliance testing:-* GB/T 22048-2015 Method A (Internal standard calibration)
Toys and children's product	- Butyl benzyl phthalate (BBP) - Dibutyl phthalate (DBP) - Bis (2-ethylhexyl) phthalate (DEHP) - Di-n-octyl phthalate (DNOP) - Di-isononyl phthalate (DINP) - Di-isodecyl phthalate (DIDP)	GB/T 22048-2015 Method A (Internal standard calibration)
Toys and children's product ***<Excluding liquid component>***	- Butyl benzyl phthalate (BBP) - Dibutyl phthalate (DBP) - Bis (2-ethylhexyl) phthalate (DEHP) - Di-n-octyl phthalate (DNOP) - Di-isononyl phthalate (DINP) - Di-isodecyl phthalate (DIDP)	GB/T 22048-2022 Method A (Internal standard calibration)
玩具及兒童用品 **<不包括>** 液體材料	鄰苯二甲酸丁苄酯 (BBP) 鄰苯二甲酸二丁酯 (DBP) 鄰苯二甲酸二(2-乙基)己酯 (DEHP) 鄰苯二甲酸二正辛酯 (DNOP) 鄰苯二甲酸二異壬酯 (DINP) 鄰苯二甲酸二異癸酯 (DIDP)	GB/T 22048-2022 方法 A (內標法)

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests :- (cont'd)	
Toys and other articles intended for use by Children - children's products	- Dibutyl Phthalate (DBP) - Diisobutyl Phthalate (DIBP) - Di-n-pentyl phthalate (DPENP) - Di-n-hexyl phthalate (DHEXP) - Dicyclohexyl phthalate (DCHP) - Di-(2ethylhexyl) phthalate (DEHP) - Benzyl Butyl Phthalate (BBP) - Di-iso-nonyl phthalate (DINP)	CPSC Test Method: CPSC-CH-C1001-09.4 Standard Operating Procedure for Determination of Phthalates, January 17, 2018
Children's products	Phthalate - Di-(2-ethylhexyl) phthalate (DEHP) - Dibutyl Phthalate (DBP) - Benzyl Butyl Phthalate (BBP) - Diisononyl phthalate (DINP) - Diisodecyl phthalate (DIDP) - Di-n-octyl phthalate (DnOP)	CPSC Test method: CPSC-CH-C1001-09.3 Standard Operating Procedure for Determining Phthalate, April 1, 2010 <***Excluding the following***> Optional Sample Pre-Screen Using Infrared (IR) Spectroscopy
Polyvinyl chloride components (Child use and care articles – Cutlery and feeding utensils)	- Bis (2-ethylhexyl) phthalate (DEHP) - Dibutyl phthalate (DBP) - Benzyl butyl phthalate (BBP) - Di-isononyl phthalate (DINP) - Di-isodecyl phthalate (DIDP) - Di-n-octyl phthalate (DNOP)	EN 14372: 2004, 5.4.2.3 and 6.3.2 ***<Excluding the following>*** Gravimetric analysis

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests :- (cont'd)	
All toys	- Migration of certain elements:	EN 71-3:2019+A1:2021 BS EN 71-3:2019+A1:2021
Category III toy materials: Scraped-off materials	Aluminum, Antimony, Arsenic, Barium, Boron, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Mercury, Nickel, Selenium, Strontium, Tin and Zinc	Annex E (ICP-MS)
	Chromium (VI) and Chromium (III) (by calculation)	Annex F (IC-ICP-MS)
	Organic Tin: Methyl tin, Dimethyltin, Butyltin, Dibutyl tin, Tributyl tin, Tetrabutyltin n-Octy tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin, Triphenyl tin	Annex G (GC-MS)

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司
10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests :- (cont'd)	
		Japan Toy Safety Standard ST2016 English version, Part 3
All toys' materials		Cl. 1.1 *Test Procedures for Compliance testing*:
	- Colouring matters	Cl. 2.1
Materials which are mainly composed of polyethylene, polyvinyl chloride (excluding parts on which paint coating is applied)		Cl. 1.2 *Test Procedures for Compliance testing*:
	- Consumption of potassium permanganate and residue on evaporation	Cl. 1.2.1 & Cl. 2.2 Cl. 1.2.1 & Cl. 2.3
	- Heavy metals	Cl. 1.2.1 & Cl. 2.4
	- Arsenic	Cl. 1.2.1 & Cl. 2.5
	- Cadmium (excluding materials mainly composed of polyethylene)	Cl. 1.2.1 & Cl. 2.6
Decalcomania, folded paper and rubber-made toys (excluding rubber pacifiers)		Cl. 1.3 *Test Procedures for Compliance testing*:
	- Heavy metals	Cl. 1.3.1 & Cl. 2.4
	- Arsenic	Cl. 1.3.1 & Cl. 2.5
Vinyl chloride resin coating		Cl. 1.4 *Test Procedures for Compliance testing*:
	- Consumption of potassium permanganate,	Cl. 1.4.1 & Cl. 2.2
	- Residue after evaporation	Cl. 1.4.1 & Cl. 2.3
The paint coating applied to the body or the components of the toys (excluding the printing ink used for paper containers)		Cl. 1.5 *Test Procedures for Compliance testing*:
	- Heavy metals : 8 elements (antimony, arsenic, barium, cadmium, chromium, lead, mercury and selenium)	Cl. 1.5.1 & Cl. 2.7 (1) ①, (2) & (3)
Textile products used for toys		Cl. 1.6 *Test Procedures for Compliance testing*:
	- Free formaldehyde	Cl. 1.6 & Cl. 2.8

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司
10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests :- (cont'd)	Japan Toy Safety Standard ST2016 English version, Part 3
Ink and the like used for the graphic instruments that are provided with the toys such as pencils, ball-point pens, markers, crayons, pastels, water colours, chalks, etc.	- Colouring matters - Heavy metals : 8 elements (antimony, arsenic, barium, cadmium, chromium, lead, mercury and selenium)	Cl. 1.8 *Test Procedures for Compliance testing*: Cl. 2.1 Cl. 1.8.2 & Cl. 2.7 (1) ②, (2) & (3)
Synthetic resin mainly composed of PVC, PU and Rubber	- Bis (2-ethylhexyl) phthalate (DEHP) - Dibutyl phthalate (DBP) - Butyl benzyl phthalate (BBP) - Di-isononyl phthalate (DINP) - Di-isodecyl phthalate (DIDP) - Di-n-octyl phthalate (DNOP)	Cl. 1.9 < ***Excluding the following*** > Cl. 1.9.3 *Test procedures for compliance testing of PVC:* Cl. 2.10 *Test procedures for compliance testing of PU: and rubber:* CPSC Test method: CPSC-CH-E1001-09.3 Standard Operating Procedure for Determination of Phthalate (April, 1, 2010) <***Excluding the following***> Optional Sample Pre-Screen Using Infrared (IR) Spectrometry
Metals used for toy (neither painted nor covered)	- Lead	Cl. 1.11 *Test Procedures for Compliance testing*: Cl. 2.12 & 2.7 (2) & (3)

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司
10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Chemical tests :- (cont'd)	
		Specifications and Standards for Foods, Food Additives, etc. Under the Food Sanitation Law (ABSTRACTS) JETRO April 2011, Part V "TOYS" English Versions of Japan Sanitation Law, Ministry of Health and Welfare Notification No. 370, 28 Nov 1959 and Ministry of Health, Labour and Welfare Notification No. 153, March 2008 *Test method for compliance testing of toys under Food Sanitation Law in Japan:-* Specifications, Standards and Testing Methods for Foodstuffs, Implements, Containers and Packaging, Toys, Detergents, January 2009
Decals	Heavy metals, Arsenic	Part III A-1 & Part II B-4 Part III A-1 & Part II B-7
Origami paper	Heavy metals, Arsenic	Part III A-2 & Part III A-1 (2)a & Part II B-4 Part III A-2 & Part III A-1 (2)b & Part II B-7
Coating film of toys	Cadmium, Lead, Arsenic	Part III A-4 & Part II B-9
Coating film coated by using polyvinyl chloride	Consumption of potassium permanganate, Residue on evaporation	Part III A-5 & Part II B-1 Part III A-5 & Part II B-5
Materials composed mostly of polyvinyl chloride (except polyvinyl chloride coating)	Heavy metals, Arsenic, Cadmium Consumption of potassium permanganate, Residue on evaporation	Part III A-6 & Part III A-1(2)a & Part II B-4 Part III A-6 & Part III A-1(2)b & Part II B-7 Part III A-6 & Part II B-9 Part III A-6 & Part III A-5 (2)a & Part II B-1 Part III A-6 & Part III A-5(2)b & Part II B-5

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司
10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Chemical tests :- (cont'd)	
		Specifications and Standards for Foods, Food Additives, etc. Under the Food Sanitation Law (ABSTRACTS) JETRO April 2011, Part V "TOYS" English Versions of Japan Sanitation Law, Ministry of Health and Welfare Notification No. 370, 28 Nov 1959 and Ministry of Health, Labour and Welfare Notification No. 153, March 2008 *Test method for compliance testing of toys under Food Sanitation Law in Japan:-* Specifications, Standards and Testing Methods for Foodstuffs, Implements, Containers and Packaging, Toys, Detergents, January 2009
Parts (excluding coating Film) manufactured using materials mainly composed of polyethylene	Heavy metals, Arsenic, Consumption of potassium permanganate, Residue on evaporation	Part III A-9 & Part III A-1 (2)a & Part II B-4 Part III A-9 & Part III A-1(2)b & Part II B-7 Part III A-9 & Part III A-5 (2)a & Part II B-1 Part III A-9 & Part III A-5(2)b & Part II B-5
Metallic accessories and toys	Lead	Part III A-10 & Part II B-9
Toys production standard	Colouring agent	Part III B

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Chemical tests :- (cont'd)	
		Specifications and Standards for Foods, Food Additives, etc. Under the Food Sanitation Law (ABSTRACTS) JETRO April 2011, Part V "TOYS" English Versions of Japan Sanitation Law, Ministry of Health and Welfare Notification No. 370, 28 Nov 1959 and Ministry of Health, Labour and Welfare Notification No. 153, March 2008 *Test method for compliance testing of toys under Food Sanitation Law in Japan:-* Specifications, Standards and Testing Methods for Foodstuffs, Implements, Containers and Packaging, Toys, Detergents, January 2009
PVC, PU, Rubber	BBP, DEHP, DBP	Part III A-7 *Test procedures for compliance testing of PVC:* Japan Food Sanitation Law, Notice 0906 No. 4 of 2010 *Test procedures for compliance testing of PU and Rubber:* CPSC Test Method: CPSC-CH-C1001-09.3, Standard Operating Procedure for Determination of Phthalate (April,1, 2010) <***Excluding the following***> Optional Sample Pre-Screen Using Infrared (IR) Spectroscopy
PVC, PU, Rubber	DIDP, DINP, DNOP	Part III A-8 *Test procedures for compliance testing of PVC:* Japan Food Sanitation Law, Notice 0906 No. 4 of 2010 *Test procedures for compliance testing of PU and Rubber* CPSC Test Method: CPSC-CH-C1001-09.3, Standard Operating Procedure for Determination of Phthalate (April,1, 2010) <***Excluding the following***> Optional Sample Pre-Screen Using Infrared (IR) Spectroscopy

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests :- (cont'd)	
Plastic, plating and paint	- Cadmium	Swedish Ordinance SFS 1998: 944 for Cadmium European Regulation (EU) No. 1907/2006 (REACH) Annex XVII Item No. 23 as amended by Commission Regulation (EU) No. 552/2009, Commission Regulation (EU) No. 494/2011, Commission Regulation (EU) No. 835/2012 and Commission Regulation (EU) 2016/217 *Test method for compliance testing for Cadmium in plastics:-* EN 1122: 2001 (Method B - Wet decomposition) *Test method for compliance testing for Cadmium in other materials including plastics:-* In-house method TCD/TPM/CHM/010
Textile components (toys intended for children under 3 years)	Formaldehyde	EN 71-9: 2005 4.3.1 *Test method for compliance testing for EN 71-9: 2005 4.3.1* BS EN ISO 14184-1: 2011

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Electrical tests :- 電性能測試 :-	
Battery operated toy	- Safety tests	ASTM F963-23 Section 4.25 < ***Excluding the following*** > Section 4.25.7.1, 4.25.9, 4.25.10
Electric toy supplied at extra-low voltage	- Compliance inspection and safety tests	BS EN IEC 62115: 2020 + A11: 2020 EN IEC 62115: 2020 + A11: 2020 < ***Excluding the following*** > for the above two standards Cl. 11, 13.8, 13.10, 18 (burning test to IEC 60695-11-10 and ISO 9772), 19; Annexes C, D, E and I AS/NZS 62115: 2018 IEC 62115: 2017 < ***Excluding the following*** > for the above two standards Cl. 11, 13.8, 13.10, 18 (burning test to IEC 60695-11-10 and ISO 9772), 19; Annexes C, D and E
Electric toy	- Compliance inspection and safety tests	GB 19865-2005 + Amendment 1 < ***Excluding the following***> Cl. 11.1, 19 (burning test to GB/T 5169.16 and ISO 9772), 20; Annex C and E
電玩具	- 安全測試	GB 19865-2005 +第 1 號修改單 <***不包含***> Cl. 11.1, 19 (按 GB/T 5169.16 及 ISO 9772 進行的耐燃試驗), 20; 附錄 C 及 E

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Toys	Flammability test	AS/NZS 8124.2: 2016 AS/NZS 8124.2: 2023 ISO 8124-2: 2023 **< *Excluding the following* >** for the above three standards Tests for flammable gases, extremely flammable liquids, highly flammable liquids, flammable liquids and flammable gels Japan Toy Safety Standard ST2016 Fourth Edition (October 4, 2022) Part 2 (based on English version provided by JTA on October 4, 2022) **< *Excluding the following* >** Tests for flammable gases, extremely flammable liquids, highly flammable liquids, flammable liquids and flammable gels BS EN 71-2: 2020 EN 71-2: 2020 **<*Excluding the following*>** for the above two standards Tests for flammable gases, extremely flammable liquids, highly flammable liquids, flammable liquids and flammable gels 16 CFR Parts 1610 and 1500.44 ASTM F963-17 Cl. 4.2 ASTM F963-23 Cl. 4.2
Dolls, plush toys and soft toys	Flammability test	Canada Toys Regulations (SOR/2011-17) (last amended on 19 December 2022) Section 32, 33 and 34

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Toys	Flammability test	GB 6675.1-2014 Cl. 5.2 **< *Excluding the following* >** Cl. 5.2.2, 5.2.3, 5.2.4 and GB 6675.3-2014 **< *Excluding the following* >** Tests for flammable gases, highly flammable liquids, flammable liquids, flammable gels and highly flammable solids
玩具	燃燒性能測試	GB 6675.1-2014 5.2 **<*不包含*>** 5.2.2, 5.2.3, 5.2.4 及 GB 6675.3-2014 **<*不包含*>** 易燃氣體、高度易燃液體、易燃液體、易燃凝膠體、高度易燃固體

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Microbiological tests :-	
Toy cosmetics, liquids, pastes, putties, gels, and powders **< *Excluding the following* >** - avian feather products	- Microbial Limit Tests	ASTM F963-17 Cl. 4.3.6.3 and Cl. 8.4.1 *Test Procedures for conformity testing:* USP < 61 > & < 62 > 46th edition (Microbiological enumeration by pour plate method) (Test for specified Microorganisms)
Toy cosmetics, liquids, pastes, putties, gels, and powders **< *Excluding the following* >** - avian feather products	- Microbial Limit Tests	ASTM F963-16 Cl. 4.3.6.3 and Cl. 8.4.1 ASTM F963-17 Cl. 4.3.6.3 and Cl. 8.4.1 *Test Procedures for conformity testing:* USP < 61 > & <62> 35th edition (Microbiological indicators by Pour Plate Method) (Pathogens by Isolation and Identification)

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Physical and mechanical tests :-	
Toys	Safety requirements and test methods	AS/NZS ISO 8124.1: 2023 ISO 8124-1: 2022 **<*Excluding the following*>** for the above two standards Cl. 4.2 (test to 5.24.3), 4.8.2, 4.15, 4.21, 4.22, 4.26, 4.30
Toys	Safety requirements and test methods	Japan Toy Safety Standard ST2016 Fourth Edition (October 4, 2022) Part 1 (based on English version provided by JTA on October 4, 2022) **<*Excluding the following*>** Cl. 4.15, 4.19 (test to Annex I), 4.22
Toys	Safety requirements and test methods	BS EN 71-1: 2014 + A1: 2018 EN 71-1: 2014 + A1: 2018 **<*Excluding the following*>** for the above two standards Cl. 4.11, 4.15.1.3, 4.15.1.5, 4.15.2, 4.15.3, 4.15.5, 4.18 (test to EN 15649-3), 4.20.2.5 and 4.20.2.12
Toy disguise costume	- Safety requirements and test methods	BS EN 14682:2014

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Physical and mechanical tests :- (cont'd)	
Toys	Safety requirements :-	ASTM F963-17 ASTM F963-23 Cl. 4.3.7, 4.5, 4.6, 4.7, 4.8, 4.9, 4.10, 4.11, 4.12, 4.13, 4.14, 4.16, 4.17, 4.18, 4.19, 4.20.2, 4.21, 4.22, 4.23.1, 4.23.2, 4.24, 4.26, 4.27, 4.28, 4.30, 4.31, 4.32, 4.33, 4.34, 4.35, 4.36, 4.38, 4.39, 4.40, 4.41 ***<Excluding the following>*** for the above two standards Cl. 4.6.2, 4.8.1
	Labeling requirements	Cl. 5
	Instructional literature	Cl. 6
	Producer's markings	Cl. 7
	Test methods	Cl. 8
Toys	Safety tests	Federal Hazardous Substances Act Regulations 16 CFR 1500.48 16 CFR 1500.49 16 CFR 1500.50 16 CFR 1500.51 16 CFR 1500.52 16 CFR 1500.53 16 CFR 1501 16 CFR 1510 16 CFR 1511
Dive sticks	- Identification of banned toys	16 CFR 1500.18(a)(19) in conjunction with test methods specified in 16 CFR 1500.86(a)(7) or 16 CFR 1500.86(a)(8)
Toy	- Safety requirements and test methods	Canada Toys Regulations SOR/2011-17 (last amended on 19 December 2022) Section 3, 4, 7 to 20, 28 to 31, 37, 40 to 42, 43, 44 ***<Excluding the following>*** Acoustic tests for push/pull toys and table top music players

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Physical and mechanical tests :- (cont'd) 機械和物理性能測試	
Toys	Safety requirements and test methods	GB 6675.1- 2014 Cl. 5.1 ***<Excluding the following>*** Cl. 5.1.12 and GB 6675.2- 2014 + Amendment 1 ***<Excluding the following>*** Cl. 4.15, 4.20, 4.21, 4.25, 5.24.3
玩具	安全要求和測試方法	GB 6675.1- 2014 5.1 ***<不包含>*** 5.1.12 及 GB 6675.2- 2014 +第 1 號修改單 ***<不包含>*** 4.15, 4.20, 4.21, 4.25. 5.24.3
Toys 玩具	- Instructions for use of toys 玩具使用說明	GB 5296.5-2006

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

10, Dai Wang Street, Taipo Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大宏街 10 號

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Safety and performance tests :-	
Babies' elastomeric feeding bottle teats	- Safety requirements and test methods	BS 7368: 1990 **< *Excluding the following* >** Cl. 3.1, 3.2 (nitrosamine content) and 6.2
Children's jewelry	- Mechanical requirements and test methods	ASTM F2923-20 Cl. 13, 14

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

Unit B, 10/F, Block 1, Tai Ping Industrial Centre, 57 Ting Kok Road, Tai Po, New Territories, Hong Kong
香港新界大埔汀角路 57 號太平工業中心第一座 10 樓 B 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Coating	Mass per unit area of hot dip galvanized coating by gravimetric method	BS EN 10346: 2015 Annex A in conjunction with the following specification(s): BS EN 10346: 2015 Cl. 8.5.5.1
Doors		
- Ironmongery		
- Cylinder rim drawback locks	Freedom of operation of follower, knob and spring bolt action in rim and mortice locks and latches	BS 5872: 1980 Cl. 8.1, A.2, A.3 & A.4
	Strength of bolt spring	BS 5872: 1980 Cl. 8.2 & A.6; Table 2
	Strength of follower or cam, knob, spring bolt and stopping medium in rim and mortice locks and latches	BS 5872: 1980 Cl. 8.3, A.7 & A.8.1
	Strength of connecting bar in rim cylinder	BS 5872: 1980 Cl. 8.6 & A.12
	Dead bolt against end pressure	BS 5872: 1980 Cl. 8.7 & A.13 BS 3621: 1980 with Amd. 3539: 1980, Amd. 3874:1982 and Amd. 7282: 1992 Cl. 9.1 & A.2.2
	Operation of security mechanism	BS 5872: 1980 Cl. 8.8 & A.14 BS 3621: 1980 with Amd. 3539: 1980, Amd. 3874:1982 and Amd. 7282: 1992 Cl. 9.2 & A.3.1
	Strength of keys	BS 5872: 1980 Cl. 8.9 & A.15
	Spring bolt through striking plate or staple	BS 5872: 1980 Cl. 8.11 & A.17
	Strength of lock or latch case, forend and bolt	BS 5872: 1980 Cl. 8.13 & A.19
	Strength of staple	BS 5872: 1980 Cl. 8.14 & A.20

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

Unit B, 10/F, Block 1, Tai Ping Industrial Centre, 57 Ting Kok Road, Tai Po, New Territories, Hong Kong
香港新界大埔汀角路 57 號太平工業中心第一座 10 樓 B 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Doors (cont'd)		
- Ironmongery (cont'd)		
- Cylinder rim drawback locks (cont'd)	Strength of bolt detention	BS 3621: 1980 with Amd. 3539: 1980, Amd. 3874: 1982 and Amd. 7282: 1992 Cl. 9.5 & A.6.1
- Lever Handle Furniture and Locks	Dead bolt against end pressure	BS 5872: 1980 Cl. 8.7 & A.13
	Freedom of operation of follower, knob and spring bolt action in rim and mortice locks and latches	BS 5872: 1980 Cl. 8.1 & A.2
	Strength of bolt spring	BS 5872: 1980 Cl. 8.2 & A.6; Table 2
	Strength of follower or cam, knob, spring bolt and stopping medium in rim and mortice locks and latches	BS 5872: 1980 Cl. 8.3 & A.7
	Operation of security mechanism	BS 5872: 1980 Cl. 8.8 & A.14
	Strength of keys	BS 5872: 1980 Cl. 8.9 & A.15
	Spring bolt through follower or knob	BS 5872: 1980 Clauses 8.10 & A.16
	Spring bolt through striking plate or staple	BS 5872: 1980 Cl. 8.11 & A.17
	Strength of lock or latch case, forend and bolt	BS 5872: 1980 Cl. 8.13 & A.19

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

Unit B, 10/F, Block 1, Tai Ping Industrial Centre, 57 Ting Kok Road, Tai Po, New Territories, Hong Kong
香港新界大埔汀角路 57 號太平工業中心第一座 10 樓 B 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Doors (cont'd)		
- Ironmongery (cont'd)		
- Lever Handle Furniture and Locks (cont'd)	Strength of striking plate	BS 5872: 1980 Cl. 8.15 & A.21
	Strength of return mechanism	BS 4951: 1973 App. B.2
	Strength of furniture and methods of fixing	BS 4951: 1973 App. B.3
	Durability of mechanism	BS 4951: 1973 App. B.4
- Mortice Dead Locks	Dead bolt against end pressure	BS 5872: 1980 Cl. 8.7 & A.13.2
	Operation of security mechanism	BS 3621: 1980 with Amd. 3539: 1980, Amd. 3874: 1982 and Amd. 7282: 1992 Cl. 9.2 & A.3
	Strength of keys	BS 5872: 1980 Cl. 8.9 & A.15
	Strength of lock or latch case, forend and bolt	BS 5872: 1980 A19 Cl. 8.13 & A.19
	Strength of striking plate	BS 5872: 1980 Cl. 8.15 & A.21
	Strength of bolt detention	BS 3621: 1980 with Amd. 3539: 1980, Amd. 3874: 1982 and Amd. 7282: 1992 Cl. 9.5 & A.6.1

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

Unit B, 10/F, Block 1, Tai Ping Industrial Centre, 57 Ting Kok Road, Tai Po, New Territories, Hong Kong
香港新界大埔汀角路 57 號太平工業中心第一座 10 樓 B 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Road surfaces	Slip resistance of pedestrian surfaces using a pendulum tester	BS 7976-2: 2002 + A1:2013 BS EN 16165: 2021 Annex C
	Skid resistance of road surfaces/markings using a portable pendulum tester	BS EN 13036-4: 2011 in conjunction with the following specification: BS EN 1436: 2018 Cl. 4.5
	Slip resistance of new/existing pedestrian surface materials by wet pendulum test	AS 4586-2013 + Amd 1:2017 App. A AS 4663-2013 App. A
Tapwares - Water taps	Performance tests :- - High pressure flow rate - Low pressure or unequal pressure flow rate - Flow controller endurance	AS/NZS 3718: 2005 (Incorporating Amendment Nos 1 and 2) (R2016) App. G, Q and R
	Performance tests :- - Nominal flow rate - Flow controller endurance	Water Supplies Department - The Hong Kong Voluntary Water Efficiency Labelling Scheme on Water Taps (Dec 2012) Annex1 Section I & Section II Water Supplies Department - The Hong Kong Voluntary Water Efficiency Labelling Scheme on Water Taps (Dec 2018 update) Annex1 Section I & Section II

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

Unit B, 10/F, Block 1, Tai Ping Industrial Centre, 57 Ting Kok Road, Tai Po, New Territories, Hong Kong
香港新界大埔汀角路 57 號太平工業中心第一座 10 樓 B 室

Physical and Mechanical Testing 物理及機械測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Polymer and Polymer Products		
- Fishing net	Mesh breaking force of netting	BS EN ISO 1806: 2002 EN ISO 1806: 2002 ISO 1806: 2002

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

Unit B, 10/F, Block 1, Tai Ping Industrial Centre, 57 Ting Kok Road, Tai Po, New Territories, Hong Kong
香港新界大埔汀角路 57 號太平工業中心第一座 10 樓 B 室

Textiles and Garments 紡織品及成衣

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Care performance tests :-	
General textiles and garments	- Dimensional stability to washing (textiles)	AATCC Test Method 135-2015 BS EN ISO 5077: 2008 ISO 5077: 2007 BS EN 25077: 1994 SASO 2140: 2003
	- Dimensional stability to washing (garments)	AATCC Test Method 150-2012
	- Domestic washing and drying procedures	BS EN ISO 6330: 2012 ISO 6330: 2012 ***<Excluding the following>*** For the above two standards Cl. 5.1.3 and 10.1.5
	- Preparation, marking and measuring for dimensional change tests	BS EN ISO 3759: 2011 ISO 3759: 2011

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

Unit B, 10/F, Block 1, Tai Ping Industrial Centre, 57 Ting Kok Road, Tai Po, New Territories, Hong Kong
香港新界大埔汀角路 57 號太平工業中心第一座 10 樓 B 室

Textiles and Garments 紡織品及成衣

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Colour fastness tests :-	
General textiles and garments	- Perspiration	AATCC Test Method 15-2009 AATCC Test Method 15-2021e BS EN ISO 105 E04: 2013 ISO 105 E04: 2013
- Wool and wool blend textiles materials	- Perspiration	WOOLMARK TWC-TM 174-2009
General textiles and garments	- Rubbing / Crocking	AATCC Test Method 8-2016 AATCC Test Method 8-2016e(2022)e BS EN ISO 105 X12: 2016 ISO 105 X12: 2016 SASO 2330: 2005
- Wool and wool blend textiles materials	- Rubbing / Crocking	WOOMARK TWC-TM 165-2009
General textiles and garments	- Water	AATCC Test Method 107-2013 AATCC Test Method 107-2022 BS EN ISO 105 E01: 2013 ISO 105 E01: 2013
- Wool and wool blend textiles materials	- Water	WOOLMARK TWC-TM 6-2009

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

Unit B, 10/F, Block 1, Tai Ping Industrial Centre, 57 Ting Kok Road, Tai Po, New Territories, Hong Kong
香港新界大埔汀角路 57 號太平工業中心第一座 10 樓 B 室

Textiles and Garments 紡織品及成衣

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Construction tests :-	
General textiles and garments	- Mass per unit area using small samples	ISO 3801: 1977 BS EN 12127: 1998 SASO 1938: 2001
	- Mass per unit area (weight)	ASTM D3776/D3776M-20
	- Threads per unit length, woven fabrics	ASTM D 3775-17e1 BS EN 1049-2: 1994 ISO 7211-2: 1984
Specific products:-		
- Children’s upper outwear	- Measurement of drawstrings	ASTM F1816-18

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

Unit B, 10/F, Block 1, Tai Ping Industrial Centre, 57 Ting Kok Road, Tai Po, New Territories, Hong Kong
香港新界大埔汀角路 57 號太平工業中心第一座 10 樓 B 室

Textiles and Garments 紡織品及成衣

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Flammability tests :-	
Specific Products :-		
- Textile floor coverings	- Assessment and labelling	BS 5287: 1988
	- Hot metal nut method	BS 4790: 1987 with Amendment Nos. 1 and 2
	- Methenamine tablet test	BS 6307: 1982 CAN/CGSB-4.2 No. 27.6-M91 ISO 6925: 1982 16 CFR 1630 16 CFR 1631
- Camping tent	- Methenamine tablet test	BS EN ISO 5912: 2011 Cl. 6.1.1.3.4 BS EN ISO 5912: 2020 Cl. 6.1.1.3.4 ISO 5912: 2011 Cl. 6.1.1.3.4 ISO 5912: 2020 Cl. 6.1.1.3.4

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

Unit B, 10/F, Block 1, Tai Ping Industrial Centre, 57 Ting Kok Road, Tai Po, New Territories, Hong Kong
香港新界大埔汀角路 57 號太平工業中心第一座 10 樓 B 室

Textiles and Garments 紡織品及成衣

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Performance tests :-	
General textiles and garments	- Abrasion resistance (Martindale tester)	ASTM D4966-12 (2016) ASTM D4966-22
	- Abrasion resistance (determination of a specimen breakdown - Martindale tester)	DIN EN ISO 12947-2: 2007 BS EN ISO 12947-2: 2016 ISO 12947-2: 2016
	- Abrasion resistance (determination of mass loss - Martindale tester)	DIN EN ISO 12947-3: 2007 BS EN ISO 12947-3: 1999 ISO 12947-3: 1998 with Corr. 1
	- Abrasion resistance (assessment of appearance change - Martindale tester)	DIN EN ISO 12947-4: 2007 BS EN ISO 12947-4: 1999 ISO 12947-4: 1998 with Corr. 1
	- Pilling resistance (ICP pilling box method)	BS EN ISO 12945-1: 2001 BS EN ISO 12945-1: 2020 ISO 12945-1: 2000 ISO 12945-1: 2020
	- Pilling resistance (modified Martindale method)	BS EN ISO 12945-2: 2000 BS EN ISO 12945-2: 2020 ISO 12945-2: 2000 ISO 12945-2: 2020
	- Water resistance (hydrostatic pressure)	AATCC TM127-2017(2018)e option 2 BS EN ISO 811 : 2018 EN ISO 811 : 2018 ISO 811 : 2018
	- Water resistance (impact penetration)	AATCC TM42-2017e
	- Weathering resistance to Xenon-arc light	ASTM G155-13 BS EN ISO 4892-2: 2013 ISO 4892-2: 2013
	- Weathering resistance to UV	AATCC TM186-2015 ASTM G154-16 ASTM D4329-13 BS EN ISO 4892-3: 2016 ISO 4892-3: 2016

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

Unit B, 10/F, Block 1, Tai Ping Industrial Centre, 57 Ting Kok Road, Tai Po, New Territories, Hong Kong
香港新界大埔汀角路 57 號太平工業中心第一座 10 樓 B 室

Textiles and Garments 紡織品及成衣

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Strength tests :-	
General textiles and garments	- Tearing strength (ballistic pendulum)	BS EN ISO 13937 Part 1: 2000 ISO 13937 Part 1: 2000
	- Tearing strength (falling pendulum)	ASTM D1424-09 (Reapproved 2013) ASTM D1424-09 (Reapproved 2019) ASTM D1424-21 ISO 9290: 1990
	- Tensile strength (strip test)	BS EN ISO 13934-1: 2013 ISO 13934-1: 2013 ISO 5081: 1977 SASO 2139: 2003
	- Tensile strength (grab test)	BS EN ISO 13934-2: 2014 ISO 13934-2: 2014
Specific products:-		
- Footwear		
- Shoe bottoms	- Peel strength of footwear sole bonds	BS 5131-5.4: 1978 + Amdt. 1
	- Upper sole adhesion	BS EN ISO 17708: 2018
- Shoe bottoms of protective footwear	- Upper / outsole bond strength	BS EN ISO 20346: 2004 + Corr. 1 + Amdt. 1 Cl 5.3.1.2 For the above standard using test method BS EN ISO 20344: 2004 + Corr.1 + Amdt. 1 Cl. 5.2 BS EN ISO 20346: 2014 Cl 5.3.1.2 For the above standard using test method BS EN ISO 20344: 2011 Cl. 5.2
- Shoe bottoms of occupational footwear	- Upper / outsole bond strength	BS EN ISO 20347: 2012, Cl. 5.1.2 For the above standard using test method BS EN ISO 20344: 2011, Cl. 5.2
- Shoe bottoms of safety footwear	- Upper / outsole bond strength	BS EN ISO 20345: 2011, Cl. 5.1.2 For the above standard using test method BS EN ISO 20344: 2011, Cl. 5.2

The Hong Kong Standards and Testing Centre Ltd.
香港標準及檢定中心有限公司

Unit B, 10/F, Block 1, Tai Ping Industrial Centre, 57 Ting Kok Road, Tai Po, New Territories, Hong Kong
香港新界大埔汀角路 57 號太平工業中心第一座 10 樓 B 室

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests :-	
Coloured toys	- Colour fastness to artificial saliva*	DIN 53160 -1: 2010-10
	- Colour fastness to artificial sweat*	DIN 53160 -2: 2010-10

* The procedure of colourfastness is conducted at Tai Po Industrial Estate while the evaluation of coloration is conducted at Tai Ping Industrial Centre

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司

ADDRESS 地址	:	Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong 香港新界沙田火炭黃竹洋街9-13號仁興中心1302室
ENQUIRY 查詢	:	Mr Dominic LAM Chun-hong, Chief Operation Officer 林俊康先生，首席營運總監
TELEPHONE 電話	:	2698 8198
FAX 傳真	:	2695 4177
E-MAIL 電郵	:	info@cmatesting.org
WEBSITE ADDRESS 網址	:	http://www.cmatesting.org/
CLIENTELE 服務對象	:	Public 公眾

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司

ADDRESS
地址 : Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

ACCREDITED TEST CATEGORY
認可測試類別 : Testing Required by the China Compulsory Certification System (CCC)
中國強制性產品認證制度規定的檢測
Chemical Testing 化學測試
Chinese Medicine 中藥
Electrical and Electronic Products 電氣及電子產品
Environmental Testing 環境測試
Food 食品
Miscellaneous 雜類
Pharmaceutical Products 藥物
Physical and Mechanical Testing 物理及機械測試
Textiles and Garments 紡織品及成衣
Toys and Children's Products 玩具及兒童產品

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司

Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Testing Required by the China Compulsory Certification System (CCC) 中國強制性產品認證制度規定的檢測

ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Toys and children's products 兒童用品		
- Toys *(2202)* - 玩具 *(2202)*		
- Plastic toy < ***Excluding the following*** > - toy containing gas or liquid - imitation weapon toy - cosmetic toy - toy with direct food contact - toys with folding mechanisms - toy chest and similar toy - pull and push toy and hand-actuated spring-propelled toy - large and bulky toy	All required tests as specified in CNCA-C22-02: 2020	GB 6675.1-2014 GB 6675.2-2014 GB 6675.3-2014 GB 6675.4-2014
- 塑膠玩具 *<不包括>* - 含氣體或液體玩具 - 仿真武器玩具 - 玩具化妝品 - 與食品直接接觸的玩具 - 帶有折疊機構的玩具 - 玩具箱及類似的玩具 - 推拉玩具和手動彈簧驅動玩具 - 大型玩具	CNCA-C22-02: 2020 有關規定的所有檢測	GB 6675.1-2014 GB 6675.2-2014 GB 6675.3-2014 GB 6675.4-2014

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司
Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Testing Required by the China Compulsory Certification System (CCC) 中國強制性產品認證制度規定的檢測

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Toys and children's products (cont'd) 兒童用品(續上) - Toy *(2202)* (cont'd) - 玩具*(2202)* (續上)		
- Metal toy < ***Excluding the following*** > - toy containing gas or liquid - imitation weapon toy - cosmetic toy - toy with direct food contact - toys with folding mechanisms - toy chest and similar toy - pull and push toy and hand-actuated spring-propelled toy - large and bulky toy	All required tests as specified in CNCA-C22-02: 2020	GB 6675.1-2014 GB 6675.2-2014 GB 6675.3-2014 GB 6675.4-2014
- 金屬玩具 ***<不包括>*** - 含氣體或液體玩具 - 仿真武器玩具 - 玩具化妝品 - 與食品直接接觸的玩具 - 帶有折疊機構的玩具 - 玩具箱及類似的玩具 - 推拉玩具和手動彈簧驅動玩具 - 大型玩具	CNCA-C22-02: 2020 有關規定的所有檢測	GB 6675.1-2014 GB 6675.2-2014 GB 6675.3-2014 GB 6675.4-2014

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司
Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Chemical Testing 化學測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests:-	
Plastics	- Cadmium content	Regulation (EC) No. 1907/2006 on REACH Annex XVII Item No 23 as amended by Commission Regulation (EC) No. 552/2009 UK The Environmental Protection (Control on Injurious Substances) (No. 2) Regulations SI 1643:1993 *Test methods for testing of cadmium content:-* BS EN 1122: 2001 (Method B – Wet decomposition)
Coated articles that come into direct and prolonged contact with the skin (excluding articles with an outer coating containing nickel and those which are inserted into pierced ears and other parts of the human body)	- Release of nickel	Regulation (EC) No. 1907/2006 on REACH Annex XVII Item No 27 as amended by Commission Regulation (EC) No. 552/2009 *Test methods for testing of release of Nickel content:-* BS EN 12472: 2020 in conjunction with BS EN 1811: 2011 + A1: 2015 EN 12472: 2020 in conjunction with EN 1811: 2011 + A1: 2015

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司
Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Chemical Testing 化學測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Textile products	Amine (Azo colourants) : 1) 4-aminodiphenyl 2) benzidine 3) 4-chloro-o-toluidine 4) 2-naphthylamine 5) o-aminoazotoluene 6) 5-nitro-o-toluidine 7) 4-chloroaniline 8) 4-methoxy-m-phenylenediamine 9) 4,4'-diaminodiphenylmethane 10) 3,3'-dichlorobenzidine 11) 3,3'-dimethoxybenzidine 12) 3,3'-dimethylbenzidine 13) 4,4'-methylene-di-o-toluidine 14) p-cresidine 15) 4,4'-methylene-bis-(2-chloro-aniline) 16) 4,4'-oxydianiline 17) 4,4'-thiodianiline 18) o-toluidine 19) 4-methyl-m-phenylenediamine 20) 2,4,5-trimethylaniline 21) 2-methoxyaniline 22) p-aminoazobenzene	Regulation (EC) No. 1907/2006 on REACH Annex XVII Item No 43 as amended by Commission Regulation (EC) No. 552/2009 and Commission Regulation (EU) No. 2020/2096 *Test procedures for compliance testing:* EN ISO 14362-1:2017 EN ISO 14362-3:2017 Techniques used are GC-MSD for detection and LC-MS/MS for confirmation for all test methods listed above.

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司
Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Chemical Testing 化學測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Textile products	Amine (Azo colourants) : 1) 4-aminodiphenyl 2) benzidine 3) 4-chloro-o-toluidine 4) 2-naphthylamine 5) o-aminoazotoluene 6) 5-nitro-o-toluidine 7) 4-chloroaniline 8) 4-methoxy-m-phenylenediamine 9) 4,4'-diaminodiphenylmethane 10) 3,3'-dichlorobenzidine 11) 3,3'-dimethoxybenzidine 12) 3,3'-dimethylbenzidine 13) 4,4'-methylene-di-o-toluidine 14) p-cresidine 15) 4,4'-methylene-bis-(2-chloro-aniline) 16) 4,4'-oxydianiline 17) 4,4'-thiodianiline 18) o-toluidine 19) 4-methyl-m-phenylenediamine 20) 2,4,5-trimethylaniline 21) 2-methoxyaniline 22) p-aminoazobenzene	ISO 14362-1:2017 ISO 14362-3:2017 BS EN ISO 14362-1:2017 BS EN ISO 14362-3:2017 Techniques used are GC-MSD for detection, LC-MS/MS for confirmation for all test methods listed above.

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司
Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Chemical Testing 化學測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Ferric Chloride Solution	Assay of ferric chloride	GB 4482-2006 Section 5.1
	亞鐵(Fe^{2+})含量	GB/T 4482-2018 (6.3)
	不溶物含量	GB/T 4482-2018 (6.4)
	游離酸含量	GB/T 4482-2018 (6.5)
	鋅含量	GB/T 4482-2018 (6.7)
	汞含量	GB/T 4482-2018 (6.10.2)
	鎘含量	GB/T 4482-2018 (6.11)
	Lead	In-house method TG-ENV-WW-107 (by AAS)
	Chromium	In-house method TG-ENV-WW-117 (by AAS)
	Arsenic, Copper and Nickel	In-house method TG-ENV-WW-119 (by ICP-OES)
	Specific Gravity	In-house method TG-ENV-WW-110 (by Glass Pycnometer)
Sodium Hypochlorite Solution	Available chlorine	GB 19106-2003 Cl. 5.1
	游離碱(以NaOH計)	GB 19106-2003 (5.2)
	鉄	GB 19106-2003 (5.3)
	重金屬(以Pb計)	GB 19106-2013 (5.6)
	Arsenic	In-house method TG-ENV-WW-120 (by ICP-OES)
	pH	In-house method TG-ENV-WW-111 (by pH meter)

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司
Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Chemical Testing 化學測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Chemical tests:-	
Sodium Chlorite Solution	Assay of Sodium Chlorite	HG/T 3250-2010 Cl. 5.4
Sodium Bisulphite Solution	Assay of Sodium Bisulphite	HG/T 3814-2006 Cl. 4.3
Sodium Hydroxide Solution	Determination of Sodium Hydroxide	GB/T 4348.1-2000 < *Excluding* determination of sodium carbonate >

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司
Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Chinese Medicine 中藥		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Proprietary Chinese Medicines and Chinese Herbal Medicines	Toxic elements :- Arsenic, Cadmium, Lead, Mercury, Copper	In-house Method TG-FP-119 (ICP-MS)
Proprietary Chinese Medicines and Chinese Herbal Medicines ***<Excluding the following>*** Ointments, Liniments made of extract of crude drugs in oils	Pesticides residues:- - Organochlorine pesticides: Aldrin, Dieldrin, Endrin, cis-Chlordane, trans-Chlordane, Oxychlordane, Heptachlor, Heptachlor epoxide, Hexachlorocyclohexane isomers (alpha-, beta- and delta-BHC) , Lindane, Hexachlorobenzene, Methyl pentachlorophenyl sulphide, Pentachloroaniline, Quintozene (pentachloronitrobenzene), 2,4'-DDT, 4,4'-DDT, 4,4'-DDE and 4,4'-DDD.	In-house Method TC-FP-120 (GC-ECD & GC-MS)

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司
Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Chinese Medicine 中藥		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Proprietary Chinese Medicines	Microbiological examinations:-	
	- Microbial Limit Test: Aerobic bacteria count Mold and Yeast count *E. coli* *Salmonella* species *Pseudomonas aeruginosa* *Staphylococcus aureus*	Pharmacopoeia of the People's Republic of China 2000, Volume I, App. XIIIC (English Edition)
	- 微生物限度檢查法 Microbial Limit Test 細菌數 Aerobic Bacteria Count 霉菌與酵母菌數 Mold and Yeast Count 大腸埃希菌 *E. coli* 大腸菌群 Coliform 沙門菌 *Salmonella* species 銅綠假單胞菌 *Pseudomonas aeruginosa* 金黃色葡萄球菌 *Staphylococcus aureus* 梭菌 Clostridium	中華人民共和國藥典 2005 年版一部附錄 XIIIC Pharmacopoeia of the People's Republic of China 2005, Volume I, App. XIIIC
	- 微生物限度檢查法 Microbial Limit Test 細菌數 Aerobic bacteria count 霉菌與酵母菌數 Mold and Yeast count 大腸埃希菌 *E. coli* 大腸菌群 Coliform 沙門菌 *Salmonella* species 銅綠假單胞菌 *Pseudomonas aeruginosa* 金黃色葡萄球菌 *Staphylococcus aureus* 梭菌 Clostridium 白色念珠菌 *Candida albicans*	中華人民共和國藥典 2010 年版一部附錄 XIIIC Pharmacopoeia of the People's Republic of China 2010, Volume I, App. XIIIC

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司
Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Chinese Medicine 中藥		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Proprietary Chinese Medicines (Nonsterile products)	- Microbial Enumeration Tests and Tests for Specified Microorganisms 微生物計數法及控制菌檢查法 需氧菌總數Total Aerobic Microbial Count 霉菌和酵母菌總數 Total Combined Yeast and Mold Count 耐膽鹽革蘭陰性菌 Bile-tolerant Gram negative bacteria detection 大腸埃希菌 *E. coli* 沙門菌 *Salmonella* species 銅綠假單胞菌 *Pseudomonas aeruginosa* 金黃色葡萄球菌 *Staphylococcus aureus* 梭菌 *Clostridium* 白色念珠菌 *Candida albicans*	中華人民共和國藥典 2015 年版四部 1105 & 1106 段, 非無菌產品微生物限度檢查: 微生物計數法及控制菌檢查法 Pharmacopoeia of the People's Republic of China 2015, Volume IV, Parts 1105 & 1106
	- Microbial Enumeration Tests and Tests for Specified Microorganisms 微生物計數法及控制菌檢查法 需氧菌總數Total Aerobic Microbial Count 霉菌和酵母菌總數 Total Combined Yeast and Mold Count 耐膽鹽革蘭陰性菌 Bile-tolerant Gram negative bacteria detection 大腸埃希菌 *E. coli* 沙門菌 *Salmonella* species 銅綠假單胞菌 *Pseudomonas aeruginosa* 金黃色葡萄球菌 *Staphylococcus aureus* 梭菌 *Clostridium* 白色念珠菌 *Candida albicans*	中華人民共和國藥典 2020 年版四部 1105 & 1106 段, 非無菌產品微生物限度檢查: 微生物計數法及控制菌檢查法 Pharmacopoeia of the People's Republic of China 2020, Volume IV, Parts 1105 & 1106

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司
Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Chinese Medicine 中藥

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Chinese Materia Medica 中藥材	Chemical and physicochemical tests:-	
	- Determination of water content 水分含量 (by oven dried method 烘乾法)	Hong Kong Chinese Materia Medica Standards, Volume 4-7, App. X(2) 香港中藥材標準第四至七冊，附錄 X(2)
	- Determination of heavy metals: Arsenic, Cadmium, Lead, Mercury 重金屬檢定方法：砷、鎘、鉛、汞	Hong Kong Chinese Materia Medica Standards, Volume 1-7, App. V 香港中藥材標準第一至七冊，附錄 V
	- Determination of Mycotoxins (Aflatoxins) Aflatoxins B_1, B_2, G_1, G_2 霉菌毒素(黃曲霉毒素)測定方法 黃曲霉毒素 B_1, B_2, G_1, G_2	Hong Kong Chinese Materia Medica Standards, Volume 1-7, App. VII 香港中藥材標準第一至七冊，附錄 VII

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司
Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Electrical and Electronic Products 電氣及電子產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	EMC tests :- Emission tests	
Unintentional radiators	- Measurement of radiated emission - 9 kHz to 40 GHz - Measurement of conducted emission - 150 kHz to 30 MHz	47 CFR Part 15 Subpart A and B using test method specified in ANSI C63.4-2014
Intentional radiators	- Measurement of radiated emission - 9 kHz to 40 GHz - Measurement of conducted emission - 150 kHz to 30 MHz	47 CFR Part 15 Subpart A and C using test methods specified in ANSI C63.10-2020
	- Measurement of radiated emission - 9 kHz to 40 GHz - Measurement of conducted emission - 150 kHz to 30 MHz	47 CFR Part 15 Subpart A and C using test methods specified in ANSI C63.10-2013
Unlicensed National Information Infrastructure (UNII) without Dynamic Frequency Selection (DFS) Intentional Radiators	- Measurement of radiated emission - 9 kHz to 40 GHz - Measurement of conducted emission - 150 kHz to 30 MHz	47 CFR Part 15 Subpart A and E using test methods specified in ANSI C63.10-2020
	- Measurement of radiated emission - 9 kHz to 40 GHz - Measurement of conducted emission - 150 kHz to 30 MHz	47 CFR Part 15 Subpart A and E using test methods specified in ANSI C63.10-2013

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司
Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Electrical and Electronic Products 電氣及電子產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	EMC tests :- Emission tests	
Licence-exempt radio apparatus: category I equipment	- Measurement of radiated emission - 9 kHz to 40 GHz - Measurement of conducted emission - 150 kHz to 30 MHz - Measurement of conducted emission at antenna terminal - 9 kHz to 40 GHz	RSS-210 Issue 10, December 2019 + Amendment (April 2020) in conjunction with RSS-Gen Issue 5, April 2018 + Amendment 1 (March 2019) + Amendment 2 (February 2021) using test methods specified in ANSI C63.10: 2020
	- Measurement of radiated emission - 9 kHz to 40 GHz - Measurement of conducted emission - 150 kHz to 30 MHz - Measurement of conducted emission at antenna terminal - 9 kHz to 40 GHz	RSS-210 Issue 9, August 2016 + Amendment (November 2017) in conjunction with RSS-Gen Issue 5, April 2018 + Amendment 1 (March 2019) using test methods specified in ANSI C63.10: 2013
Digital Transmission System (DTSs), Frequency Hopping System (FHSs) and Licence-Exempt Local Area Network(LE-LAN) Devices without Dynamic Frequency Selection (DFS)	- Measurement of radiated emission - 9 kHz to 40 GHz - Measurement of conducted emission - 150 kHz to 30 MHz - Measurement of conducted emission at antenna terminal - 9 kHz to 40 GHz	RSS-247 Issue 2, February 2017 in conjunction with RSS-Gen Issue 5, April 2018 + Amendment 1 (March 2019) using test methods specified in ANSI C63.10: 2013 < ***Excluding the following*** > Section 6

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司
Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Electrical and Electronic Products 電氣及電子產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	EMC tests :- Emission tests	
Sound broadcast receivers and associated equipment <***Excluding the following***> - PC tuner cards - outdoor units - broadcast receivers for digital signals	- Measurement of terminal disturbance voltages - 0.15 MHz to 30 MHz - Measurement of disturbance power - 30 MHz to 300 MHz - Measurement of radiated disturbances - 30 MHz to 1 GHz	AS/NZS CISPR 13: 2012 CISPR 13: 2009 EN 55013: 2013
Household appliances, electric tools and similar apparatus, electric and electronic toys <***Excluding the following***> - washing machines - dish-washing machines - tumble dryers - centrifugal dryers - lifting devices - automatic goods-dispensing machines - entertainment machines - three-phase equipment	- Measurement of terminal disturbance Voltages - 0.15 MHz to 30 MHz - Measurement of disturbance power - 30 MHz to 300 MHz - Measurement of radiated disturbances - 30 MHz to 1 GHz	AS/NZS CISPR 14.1: 2010 CISPR 14-1: 2005 EN 55014-1: 2006 + A1: 2009 + A2: 2011 EN 55014-1: 2017 + A11: 2020 EN IEC 55014-1:2021
Lighting equipment and luminaires <***Excluding the following***> - fluorescent lamps - semi-luminaires - self ballasted lamps - UV fluorescent lamp appliances - transport lighting - cold cathode tubular discharge lamp - self-contained emergency lighting luminaires - replaceable starters for fluorescent lamps	- Measurement of conducted disturbance voltages at mains terminals, load terminals and control terminals - 9 kHz to 30 MHz - Measurement of radiated electromagnetic disturbances - 9 kHz to 300 MHz	AS/NZS CISPR 15: 2011 CISPR 15: 2018 CISPR 15: 2013 EN IEC 55015: 2019 + A11: 2020 EN 55015: 2013

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司
Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Electrical and Electronic Products 電氣及電子產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	EMC tests :- Emission tests	
Information technology equipment < ***Excluding the following*** > - test volume diameter of equipment > 1.5 m - telecommunications terminal equipment	- Measurement of terminal disturbance Voltages - 150 kHz to 30 MHz - Measurement of radiated disturbances - 30 MHz to 6 GHz	AS/NZS CISPR 22: 2009 CISPR 22: 2008 EN 55022: 2010 ***<Excluding the following>*** for the above there standards Cl. 9.6, 10.8 and 10.9
Multimedia equipment < ***Excluding the following*** > - test volume diameter of equipment > 1.5 m - equipment with analogue or digital data port - outdoor unit of home satellite receiving system - rack-mounted equipment - TV broadcast receiver - telecommunications terminal equipment	- Conducted emission - 150 kHz to 30 MHz - Radiated disturbances - 30 MHz to 6 GHz	AS/NZS CISPR 32: 2015 CISPR 32: 2015 EN 55032: 2015 + Corr. 2016 ***<Excluding the following>*** for the above there standards Tables A.7, A.11.2, A.11.3, A.12.2, A.12.3 and A13; Annexes H and I

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司
Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Electrical and Electronic Products 電氣及電子產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	EMC tests :- Emission tests	
Electrical and electronic equipment having an input current up to 16 A per phase and connected to 220 V, 230 V or 240 V supply system operating at 50 Hz or 60 Hz **< *Excluding the following* >** - three phase equipment - washing machines - refrigerators and freezers - air conditioners	- Harmonic currents	EN 61000-3-2: 2014 IEC 61000-3-2: 2014 EN IEC 61000-3-2: 2019 + A1: 2021 IEC 61000-3-2: 2018 +A1: 2020
Electrical and electronic equipment having an input current up to 16 A per phase and connected to a supply system of line to neutral voltage between 220 V and 250 V at 50 Hz **< *Excluding the following* >** - three-phase equipment - washing machines - refrigerators and freezers - air conditioners	- Voltage fluctuations and flicker at the supply terminals of the equipment (direct measurement using flickermeter)	EN 61000-3-3: 2013 IEC 61000-3-3: 2013 + A1: 2017 + A2: 2021 EN 61000-3-3: 2013 + A1: 2019 + A2: 2021
Electrical and electronic apparatus intended for use in residential, commercial and light-industrial environment for which no dedicated product or product-family emission standard exists **< *Excluding the following* >** - measurement of telecommunications / network point	- Measurement of radiated disturbances - 30 MHz to 1 GHz - Measurement of terminal disturbance voltage - 0.15 MHz to 30 MHz	EN 61000-6-3: 2007 + A1: 2011 AS/NZS 61000.6.3: 2007 IEC 61000-6-3: 2006 + A1: 2010

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司
Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Electrical and Electronic Products 電氣及電子產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	EMC tests :- Immunity tests	
Household appliances, electric tools and similar apparatus, electric and electronic toys < ***Excluding the following*** > - washing machines - dish- washing machines - tumble dryers - centrifugal dryers - lifting devices - automatic goods-dispensing machines - entertainment machines - three-phase equipment	- Electrostatic discharge - Fast transient/burst - Injected currents - Surge - Voltage dips and interruptions	CISPR 14-2: 1997 + A1: 2001 + A2: 2008 EN 55014-2: 1997 + A1: 2001 + A2: 2008 EN 55014-2: 2015 EN IEC 55014-2: 2021
Electrical and electronic equipment	- Electrostatic discharge	EN 61000-4-2: 2009 IEC 61000-4-2: 2008 < ***Excluding the following*** > for the above two standards Annex B
	- Electrical fast transient/burst - 4 kV 5/50 ns	EN 61000-4-4: 2012 IEC 61000-4-4: 2012
Electrical and electronic equipment < ***Excluding the following*** > - three-phase equipment - equipment with interconnection or communication line	- Surge - 4 kV 1.2/50 μs and 8/20 μs	EN 61000-4-5: 2014 IEC 61000-4-5: 2014
Electrical and electronic equipment < ***Excluding the following*** > - three-phase equipment - equipment with interconnection or communication line	- Conducted disturbance induced by radio frequency fields - 150 kHz to 80 MHz, 3 V (max)	EN 61000-4-6: 2014 IEC 61000-4-6: 2013 < ***Excluding the following*** > for the above two standards Cl. 6.2.3
	- Voltage dips, short interruptions and voltage variations	EN 61000-4-11: 2004 IEC 61000-4-11: 2004

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司
Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Electrical and Electronic Products 電氣及電子產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Household and similar electrical appliances - Single phase electrical appliance < ***Excluding the following*** > - appliance for use in tropical climate	Safety tests :- - Compliance inspection and safety tests	BS EN 60335-1: 2012 + A13: 2017 EN 60335-1: 2012 + A13: 2017 < ***Excluding the following*** > for the above two standards Cl. 8.1.4 (discharge measurement), 15.1, 19.11.3, 19.11.4 22.1 (tests for IP5X, IP6X), 22.7, 22.32 (oxygen bomb test), 22.46, 32 (EMF measurement); Annex J (Note: The above standards should be used in conjunction with the product test standards as detailed in relevant Part 2 of BS EN 60335 or EN 60335) IEC 60335-1: 2010 + A1: 2013 + A2: 2016 < ***Excluding the following*** > Cl. 8.1.4 (discharge measurement), 15.1, 19.11.3, 19.11.4 22.1 (tests for IP5X, IP6X), 22.7, 22.32 (oxygen bomb test), 22.46, 22.57; Annex J (Note: The above standards should be used in conjunction with the product test standards as detailed in relevant Part 2 of IEC 60335.)

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司
Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Electrical and Electronic Products 電氣及電子產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Household and similar electrical appliances (cont'd)	Safety tests :-	
- Warming plate and similar appliance	- Compliance inspection and safety tests	BS EN 60335-2-12: 2003 + A1: 2008 EN 60335-2-12: 2003 + A1: 2008 **< *Excluding the following* >** for the above two standards Clauses 8.1.4 (discharge measurement), 15.1, 19.11.3, 19.11.4 22.1 (tests for IP5X, IP6X), 22.7, 22.32 (oxygen bomb test), 22.46, 32 (EMF measurement); Annex J IEC 60335-2-12: 2002 + A1: 2008 + A2: 2017 **< *Excluding the following* >** Clauses 8.1.4 (discharge measurement), 15.1, 19.11.3, 19.11.4 22.1 (tests for IP5X, IP6X), 22.7, 22.32 (oxygen bomb test), 22.46, 22.57; Annex J

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司
Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Environmental Testing 環境測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Indoor Air Quality Testing	Extractable components collected in passive samplers:-	
	- Formaldehyde	In-house method TG-ENV-WW-48 (HPLC-DAD)
	- Nitrogen dioxide	In-house method TG-ENV-WW-47 (FIA)
	Extractable components collected in active samplers:-	
	- Formaldehyde	In-house method TG-ENV-WW-104 (HPLC-PDA)
	Microbiological tests:-	
Collectate sampled by 1. two-stage Andersen sampler, 2. single-stage N6 Andersen sampler 3. single-stage Oxoid sampler 4. Quick Take 30 Bio Stage pump kit	Airborne bacteria count (number of colonies and corrected number of colonies on agar plate) (35°C for 2 days) or (30°C for 2 days)	In-house method TG-FP-MB-033
Collectate sampled by Reuter Centrifugal Sampler (RCS)	Airborne bacteria count (number of colonies on agar strip) (35°C for 2 days) or (30°C for 2 days)	In-house method TG-FP-MB-033
Collectate sample on agar plate	Airborne bacteria count (number of colonies on agar plate) (35°C for 2 days) or (30°C for 2 days)	In-house method TG-FP-MB-033
Collectate sample on agar strip	Airborne bacteria count (number of colonies on agar strip) (35°C for 2 days) or (30°C for 2 days)	In-house method TG-FP-MB-033

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司
Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Physical Examination:-	
Water and Wastewater	- Colour	APHA 23e 2120B
	- Hardness	APHA 23e 2340 C
	- pH	APHA 23e 4500-H^+ B
	- Total Suspended Solids dried at 103-105℃	APHA 23e 2540 D
	- Total Solids dried at 103-105℃	APHA 23e 2540 B
	- Total Volatile Solids ignited at 550℃	APHA 23e 2540 E
	- Turbidity	APHA 23e 2130 B
	- Conductivity	APHA 23e 2510 B
	Non-metallic constituents:-	
	- Chloride	APHA 23e 4500-Cl^- B
	- Chlorine (Free Residual)	APHA 23e 4500-Cl G
	- Chlorine (Total Residual)	APHA 23e 4500-Cl B APHA 23e 4500-Cl G
	- Dissolved oxygen	APHA 23 e 4500-O G
	- Phosphorus (Total)	ASTM D515-88 APHA 23e 4500-P B.5 & H
	- Phosphorus (Dissolved & Reactive)	APHA 23e 4500-P B.1 & E APHA 23e 4500-P B.1 & G

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司
Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Environmental Testing 環境測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Non-metallic constituents:- (cont'd)	
Water and Wastewater (cont'd)	- Nitrogen (Ammonia)	APHA 23e 4500-NH_3 H (FIA)
	- Nitrogen (Nitrite)	APHA 23e 4500-NO_3^- I (FIA)
	- Nitrogen (Nitrate)	APHA 23e 4500-NO_3^- I (Calculation)
	- Total oxidised nitrogen	APHA 23e 4500-NO_3^- I (FIA)
	- Nitrogen (Total Kjeldahl)	APHA 23e 4500-N_{org} D (FIA)
	- Nitrogen (Total) (Total Kjeldahl + Nitrate + Nitrite)	In-house method TG-ENV-WW-44 (by calculation) in conjunction with APHA 23e 4500-N_{org} D (FIA) and APHA 23e 4500-NO_3^- I (FIA)
	- Nitrogen (Organic) (Total Kjeldahl – Ammonia)	In-house method TG-ENV-WW-45 (by calculation) in conjunction with APHA 23e 4500-N_{org} D (FIA) and APHA 23e 4500-NH_3H (FIA)
	- Nitrogen (Nitrate + Nitrite +Ammonia)	In-house method TG-ENV-WW-46 (by calculation) in conjunction with APHA 23e 4500-NH_3H (FIA) and APHA 23e 4500- NO_3^- I (FIA)
	- Sulphate	APHA 23e 4500-SO_4^{2-} E
	- Total Sulphide	APHA 23e 4500S^{2-}D
	- Dissolved Sulphide (Soluble Sulphide)	APHA 23e 4500S^{2-}B, D
	Organic Pollutants:-	
	- Oil & Grease	APHA 23e 5520 B
	- Chemical Oxygen Demand	APHA 23e 5220 B (Open reflux) APHA 23e 5220 D (Closed reflux)
	- Biochemical Oxygen Demand (5-day)	BS 6068: Section 2.63: 1998 BS EN 1899-1: 1998 APHA 23e 5210 B

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司
Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Environmental Testing 環境測試

ITEM TESTED OR MEASURED 測試或量度項目		SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Water and Wastewater (cont'd)	Trace Metals (recoverable):-	
	- Antimony, Barium, Cobalt, Molybdenum, Tin	In-house method TG-ENV-WW-76 (by ICP-OES)
	- Aluminium, Arsenic, Cadmium, Chromium, Copper, Lead, Manganese, Mercury, Nickel, Zinc, Iron, Magnesium	In-house method TG-ENV-WW-76 (by ICP-MS)
	- Antimony, Arsenic, Barium, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Mercury, Molybdenum, Nickel, Tin, Zinc	In-house method TG-ENV-WW-143 (by ICP-MS)
	- Hexavalent chromium Cr(VI)	In-house method TG-ENV-WW-145 (by Colorimetric method)
	- Trivalent chromium Cr(III)	In-house method TG-ENV-WW-146 (by calculation)
Water	Trace Metals (total recoverable):-	
	- Lead, Cadmium, Chromium, Nickel, Aluminium, Antimony, Arsenic, Copper, Iron , Manganese, Mercury & Zinc	In-house method TG-ENV-WW-69 (by ICP-MS)

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司
Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Water and Wastewater (cont'd)	Organic Pollutants:-	
	- Polycyclic Aromatic Hydrocarbons Naphthalene, Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Anthracene, Fluoroanthene, Pyrene, Chrysene, Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3- cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene	In house method TG-ENV-WW-148 (by GC-MS)
	- Semivolatile Organic Compounds Hexachlorobenzene	In house method TG-ENV-WW-148 (by GC-MS)
	- Organochlorine Pesticides: Hexachlorobenzene, Hexachlorocyclopentadiene, Hexachloethane, 1,2,4-trichlorobenzene, alpha-BHC, beta-BHC, gamma-BHC, Bis(2-chloroethoxy)-methane	In-house Method TG-ENV-WW-86 (by GC-MSD)
	- Phenols 2-Chlorophenol, 2,4-Dichlorophenol, p-Chloro-m-cresol, 2,4,6- Trichlorophenol	In-house method TG-ENV-WW-80 (by GC-MSD)
	Pentachlorophenol	In house method TG-ENV-WW-84 (by GC-MSD)
	- Haloacetic acids Bromoacetic acid, Chloroacetic acid, Dibromoacetic acid, Dichloroacetic acid, Trichloroacetic acid	In-house method TG-ENV-WW-79 (by GC-ECD)

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司
Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Organic Pollutants:- (cont'd)	
Water and Wastewater (cont'd)	- Polychlorinated biphenyl congeners 2,4'-Dichlorobiphenyl (8) 2,2',5 - Trichlorobiphenyl (18) 2,4,4' - Trichlorobiphenyl (28) 2,2',3,5' - Tetrachlorobiphenyl (44) 2,2',5,5' - Tetrachlorobiphenyl (52) 2,3',4,4'-Tetrachlorobiphenly (66) 3,3',4,4'-Tetrachlorobiphenly (77) 2,2'4,5,5' - Pentachlorobiphenyl (101) 2,3,3',4,4' - Pentachlorobiphenyl (105) 2,3',4,4',5 - Pentachlorobiphenyl (118) 3,3',4,4',5 - Pentachlorobiphenyl (126) 2,2',3,3',4,4' - Hexachlorobiphenyl (128) 2,2',3,4,4',5' - Hexachlorobiphenyl (138) 2,2',4,4',5,5' - Hexachlorobiphenyl (153) 3,3',4,4',5,5'- Hexachlorobiphenyl (169) 2,2',3,3',4,4',5 - Heptachlorobiphenyl (170) 2,2',3,4,4',5,5' - Heptachlorobiphenyl (180) 2,2',3,4',5,5',6 - Heptachlorobiphenyl (187)	In house method TG-ENV-WW-098 (by GC-MS)
	Total PCBs (according to Environmental Transport and Work Bureau (ETWB) Technical Circular (Works) No. 34/2002)	In house method TG-ENV-WW-160 (by calculation)

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司
Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目		**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Water and Wastewater (cont'd)	Organic Pollutants:- (cont'd)	
	- Total petroleum hydrocarbons: C6 - C8	In house method TG-ENV-WW-82 (by Headspace GC-MSD)
	C9 - C16 C17 - C35	In house method TG-ENV-WW-83 (by GC-FID)
	C6 - C8	In house method TG-ENV-WW-150 (by Purge and Trap GC-MS)
	C9 - C16 C17 - C35	In house method TG-ENV-WW-154 (by GC-FID)
	Volatiles Organic Compounds	
	- Chloroform, Bromodichloromethane, Benzene, Ethylbenzene, Methyl tert butyl ether, Styrene, Toluene, Xylenes (sum of m, o, p-), Tetrachloroethylene, Trichloroethylene, Chlorobenzene, 1,4-Dichlorobenzene, Dibromochloromethane, Acetone, Methylene chloride and 2-Butanone	In-house method TG-ENV-WW-78 (by Headspace GC-MSD)
	- Acetone, Methylene chloride, Methyl tert-butyl ether, 2-Butanone, Chloroform, Benzene, Trichloroethylene, Bromodichloromethane, Toluene, Tetrachloroethylene, Ethylbenzene, m- & p-Xylene, o-Xylene, Styrene	In-house method TG-ENV-WW-155 (by Purge and Trap GC-MS)
	- Xylenes (Total)	In house method TG-ENV-WW-161 (by calculation)

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司
Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Physical examination:-	
Seawater	- Turbidity	APHA 23e 2130 B
Saline water	- Total Suspended Solids dried at 103-105℃	APHA 23e 2540D
	Non-metallic Constituents:-	
Saline water	- Dissolved oxygen	APHA 23 e 4500-O G

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司
Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Environmental Testing 環境測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Physical examination:-	
Sewage sludge	- Total Solids dried at 103℃-105℃	APHA 23e 2540 G
	- Total Volatile Solids ignited at 550℃	APHA 23e 2540 G
Soil	Non-metallic Constituents:-	
	- Cyanide - Free	In house Method TG-ENV-WW-156 (by Colorimetric method)
	Trace Metals (recoverable):-	
	- Antimony, Arsenic, Barium, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Mercury, Molybdenum, Nickel, Tin, Zinc	In house method TG-ENV-WW-143 (by ICP-MS)
	- Hexavalent chromium Cr(VI)	In-house method TG-ENV-WW-145 (by Colorimetric method)
	- Trivalent chromium Cr(III)	In-house method TG-ENV-WW-146 (by calculation)

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司
Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Soil (cont'd)	Organic Pollutants:- - Polychlorinated biphenyl congeners 2,4'-Dichlorobiphenyl (8) 2,2',5 - Trichlorobiphenyl (18) 2,4,4' - Trichlorobiphenyl (28) 2,2',3,5' - Tetrachlorobiphenyl (44) 2,2',5,5' - Tetrachlorobiphenyl (52) 2,3',4,4'-Tetrachlorobiphenly (66) 3,3',4,4'-Tetrachlorobiphenly (77) 2,2'4,5,5' - Pentachlorobiphenyl (101) 2,3,3',4,4' - Pentachlorobiphenyl (105) 2,3',4,4',5 - Pentachlorobiphenyl (118) 3,3',4,4',5 - Pentachlorobiphenyl (126) 2,2',3,3',4,4' - Hexachlorobiphenyl (128) 2,2',3,4,4',5' - Hexachlorobiphenyl (138) 2,2',4,4',5,5' - Hexachlorobiphenyl (153) 3,3',4,4',5,5'- Hexachlorobiphenyl (169) 2,2',3,3',4,4',5 - Heptachlorobiphenyl (170) 2,2',3,4,4',5,5' - Heptachlorobiphenyl (180) 2,2',3,4',5,5',6 - Heptachlorobiphenyl (187) Total PCBs (according to Environmental Transport and Work Bureau (ETWB) Technical Circular (Works) No. 34/2002)	In house method TG-ENV-WW-098 (by GC-MS) In house method TG-ENV-WW-160 (by calculation)

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司
Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Soil (cont'd)	Organic Pollutants:- (cont'd) - Total petroleum hydrocarbons: C6 - C8 C9 - C16 C17 - C35 Volatiles Organic Compounds - Acetone, Methylene chloride, Methyl tert-butyl ether, 2-Butanone, Chloroform, Benzene, Trichloroethylene, Bromodichloromethane, Toluene, Tetrachloroethylene, Ethylbenzene, m- & p-Xylene, o-Xylene, Styrene - Chloroform, Benzene, Trichloroethylene, Bromodichloromethane, Tetrachloroethylene - Xylenes (Total)	In house method TG-ENV-WW-150 (by Purge and Trap GC-MS) In house method TG-ENV-WW-154 (by GC-FID) In-house method TG-ENV-WW-155 (by Purge and Trap GC-MS) In-house method TG-ENV-WW-155 (by Closed System Purge and Trap GC-MS) In house method TG-ENV-WW-161 (by calculation)

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司
Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Soil and Sediment	Trace Metals (total recoverable):-	
	- Aluminium, Antimony, Arsenic, Barium, Cadmium, Chromium, Cobalt, Copper, Iron, Lead, Manganese, Magnesium, Mercury, Molybdenum, Nickel, Tin, Zinc	In house method TG-ENV-WW-77 (by ICP-MS)
	Organic Pollutants:-	
	- Polycyclic Aromatic Hydrocarbons Naphthalene, Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Anthracene, Fluoroanthene, Pyrene, Chrysene, Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3- cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene	In house method TG-ENV-WW-142 (by GC-MS)
	- Semivolatile Organic Compounds Hexachlorobenzene Phenol Bis(2-Ethylhexyl)phthalate	In house method TG-ENV-WW-142 (by GC-MS)
	- Tributyl tin	In-house method TG-ENV-WW-102 (by LC-MS/MS)
	- Tributyl tin oxide (screening)	In-house method TG-ENV-WW-122 (by calculation)

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司
Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Water and Wastewater	Microbiological tests:-	
	- Heterotrophic plate count (35 °C)	APHA 23e 9215 B (Pour Plate Method)
	- Colony count by pour-plate method	DoE(1983) The Bacteriological Examination of Drinking Water Supplies, 1982 Section 7.12.3 (Pour Plate Method)
	- Total Coliform count	DoE(1983) The Bacteriological Examination of Drinking Water Supplies, 1982 Membrane Filtration Procedure: Sections 7.8, 7.9.4.1and 7.9.4.2; Bacterial Confirmation: Section 7.9.4.3
	- Faecal Coliform count	DoE(1983) The Bacteriological Examination of Drinking Water Supplies, 1982 Membrane Filtration Procedure: Sections 7.8 and 7.9.4.2 Bacterial Confirmation: Section 7.7.6.3
	- *E. coli* count	DoE (1983) The Bacteriological Examination of Drinking Water Supplies, 1982 Membrane Filtration Procedure: Sections 7.8, & 7.9.4.2 Bacterial Confirmation: in situ urease test DoE (1983) The Bacteriological Examination of Drinking Water Supplies, 1982 Membrane Filtration Procedure: Sections 7.8 & 7.9.4.2 Bacterial Confirmation: Section 7.9.4.4
Marine water	- Enumeration of *E. coli*	Environmental Microbiology Laboratory Test Method Manual TM09/EC/10/098 Issue 3, Environmental Protection Department, HK

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司
Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Environmental Testing 環境測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Microbiological tests:-	
Water, Wastewater and Cooling tower water	*Legionellae* count including *Legionella pneumophila count*	AS/NZS 3896: 2008 AS 3896: 2017 ***<Excluding the following>*** Sampling and transport in Cl. 7
Drinking Water, Treated Bathing Water, Water for human use and consumption	*Legionellae* count including *Legionella pneumophila* count	ISO 11731-2:2004 BS EN ISO 11731-2:2008 BS 6068-4.18:2004
Potable water and Process water	*Legionellae* count	ISO 11731: 2017 ***<Excluding the following>*** Cl. 8.4.2, Sampling and transport in Cl. 7

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司
Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Toxicological tests :-	
Food containers (ceramicware)	- Leachable lead and cadmium	ISO 6486-2: 1999 *Test procedure for compliance testing*:- ISO 6486-1: 1999 US FDA Compliance Policy Guides 7117.06 (1995)& 7117.07 (1995) *Test procedures for compliance testing*:- AOAC Official Methods 973.32 (2005) AOAC Official Methods 973.82 (2005) ASTM C738-94 (Reapproved 2016) 84/500/EEC Annex I, II with Amd. 2005/31/EC UK The Ceramic Ware (Safety) Regulation 1988, S.I. 1647:- *Test procedure for compliance testing*:- BS 6748: 1986 + A1: 2011 EN 1388 Part 1: 1995 DIN EN 1388 Part 1: 1995 BS EN 1388 Part 1: 1996
Food containers (glassware, glass ceramic ware & vitreous enamel ware)		EN 1388 Part 2: 1995 DIN EN 1388 Part 2: 1995 BS EN 1388 Part 2: 1996 BS 6748: 1986 + A1: 2011
Plastic products intended to come into direct contact with food	- Overall migration in aqueous solvent 10% ethanol, simulant A 3% acetic acid, simulant B 20% ethanol, simulant C 50% ethanol , simulant D1	Commission Regulation (EU) no. 10/2011, Article 12, paragraph 4 of Article 18, Annex III, and Chapter 3 (*excluding* paragraph 3.4, OM5 & OM6 of paragraph 3.1) of Annex V *Test procedures for compliance testing*:- EN 1186-3: 2002, Method A (immersion method) EN 1186-5: 2002 (cell method) (with modification) EN 1186-9: 2002 (article filling method)

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司
Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Toxicological tests :- (cont'd)	
		Japan Food Sanitation Law, Ministry of Health and Welfare Notification No. 370, 28 Nov 1959, Notification No. 201, 31 Mar 2006 and Notice No. 41611 Aug 2008, Part III – Implements, Containers and Packaging *Test procedures for compliance testing*:- Specification, Standards and Testing Methods for Foodstuffs, Implements, Containers and Packaging, Toys, Detergents 2008 - Part II (English version published by JETRO, January 2009)
Food containers (synthetic resins, PVC, PE, PS, PVDC, PET and PP)	- Lead, cadmium - Heavy metals as lead	Section D2 (1) item a Section B4, B10 & D2 (1) b (i)
Food containers (synthetic resins, PVC, PE, PS, PVDC, PET and PP) ***<Excluding the following>*** Phenol resin, melamine resin and urea resin	- Consumption of potassium permanganate	Section B1, B10 & D2 (1) b (ii)
Food containers (PVDC)	- Barium	Section D2 (2) item f
Food containers: - Synthetic resins PVC PE & PP PS PVDC PET	- Evaporation residues	 Section B5, B10 & D2 (2) a (i) <3> & D2 (2) b (i)<2> Section B5, B10 & D2 (2) c (i)<3> Section B5, B10 & D2 (2) d (i) Section B5, B10 & D2 (2) e (ii) Section B5, B10 & D2 (2) f (ii) Section B5, B10 & D2 (2) g (i) <3>

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司
Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Food 食品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical analysis:-	
Milk	Fat content	AOAC Official Methods 989.05 (2005)
Milk powder	Fat content	AOAC Official Methods 932.06 (2005) Cl. A(b) & Cl. B
	Preservatives:-	
General foodstuff	- Sulphur dioxide	In-house method TG-FP-112 (By lead acetate paper, titrimetric and gravimetric methods)
General foodstuff	- Boric acid	In-house method TG-FP-125 (by ICP-OES)
Meat and dairy product	- Nitrite and nitrate	In-house method TG-FP-127 (by FIA)
General foodstuff	- Benzoic acid - Sorbic acid - Salicylic acid - Methyl para-hydroxybenzoate - Ethyl para-hydroxybenzoate, - Propyl para-hydroxybenzoate	In-house method TG-FP-188 (by LC-DAD)
Bread and flour confectionary	- Propionic acid	In-house method TG-FP-189 (by GC-FID)

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司
Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Chemical analysis:- (cont'd)	
Meat, Seafood, Milk & Honey	Veterinary Drug Residues:- - Chloramphenicol	In house method TG-FP-121 (By LC-MS-MS)
General foodstuff	Metals:- - Arsenic, Cadmium, Lead, Mercury, Tin, Antimony, Chromium, Copper, Cobalt	In-house method TG-FP-129 (By ICP-MS)
Aquatic products, Fish, fish feed, rice, shellfish and seaweed	- Inorganic Arsenic	In House method TG-FP-234 (by LC-ICPMS)
Fish	- Methyl Mercury	In House method TG-FP-237 (by LC-ICPMS)

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司
Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Soy and soy derived food stuff (except liquid, oil)	Qualitative screening of transgenic traits using partial sequence of :- - Cauliflower mosaic virus promoter (CaMV35S) - Terminator of nopaline synthase gene from *Agrobacterium tumefaciens* (NOS) - The junction between the 35S promoter and the chloroplast transit peptide (CTP) sequence derived from the *Petunia hybrida* 5-enolpyruvylshikimate 3-phosphate synthase (EPSPS) gene (Roundup Ready)	ISO 21571: 2005 (Nucleic acid extraction) ISO 21569: 2005 and JRC Compendium of Reference Methods for GMO Analysis (QL-ELE-00-006) (Polymerase chain reaction with gel image analysis)
	Qualitative screening of transgenic traits using partial sequence of :- - Terminator of nopaline synthase gene from *Agrobacterium tumefaciens* (NOS) - Soy lectin gene, *le* 1 - Cauliflower mosaic virus promoter (CaMV35S) - The junction between the 35S promoter and the chloroplast transit peptide (CTP) sequence derived from the *Petunia hybrida* 5-enolpyruvylshikimate 3-phosphate synthase (EPSPS) gene (Roundup Ready)	ISO 21571: 2005 (Nucleic acid extraction) ISO 21569: 2005/Amd. 1: 2013 (Real-time polymerase chain reaction) ISO 21570: 2005 (Real-time polymerase chain reaction)

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司
Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Food 食品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Maize and maize derived food stuff (except liquid, oil)	Qualitative screening of transgenic traits using partial sequence of :- - Cauliflower mosaic virus promoter (CaMV35S) - Terminator of nopaline synthase gene from *Agrobacterium tumefaciens* (NOS) - CryIA(b) gene from *Bacillus thuringiensis* (Bt 176)	ISO 21571: 2005 (Nucleic acid extraction) ISO 21569: 2005 and JRC Compendium of Reference Methods for GMO Analysis (QL-ELE-00-006) (Polymerase chain reaction with gel image analysis)
	Qualitative screening of transgenic traits using partial sequence of :- - Terminator of nopaline synthase gene from *Agrobacterium tumefaciens* (NOS) - Maize starch synthase IIb gene: *zSSIIb* - Cauliflower mosaic virus promoter (CaMV35S) - CryIA(b) gene from *Bacillus thuringiensis* (Bt 176)	ISO 21571: 2005 (Nucleic acid extraction) ISO 21569: 2005/Amd. 1: 2013 (Real-time polymerase chain reaction) ISO 21570: 2005 (Real-time polymerase chain reaction)
Papaya	Qualitative screening of transgenic papaya line 55-1 and 63-1 using partial sequence of :- - Cauliflower mosaic virus promoter (CaMV35S) - Terminator of nopaline synthase gene from *Agrobacterium tumefaciens* (NOS) - Papaya ring spot virus coat protein (PRSV-CP) gene	ISO 21571: 2005 (Nucleic acid extraction) ISO 21569: 2005 ISO 21569: 2005/Amd. 1: 2013 and JRC Compendium of Reference Methods for GMO Analysis (QL-ELE-00-006) (Polymerase chain reaction with gel image analysis)
	Qualitative screening of transgenic papaya line 55-1 and 63-1 using partial sequence of :- - Cauliflower mosaic virus promoter (CaMV35S) - Terminator of nopaline synthase gene from *Agrobacterium tumefaciens* (NOS) - The junction between chimeric cucumber Mosaic (CMV) coat protein /Papaya ring spot virus coat protein (PRSV-CP) gene	ISO 21571: 2005 (Nucleic acid extraction) ISO 21570: 2005 (Real-time polymerase chain reaction) ISO 21569: 2005/Amd. 1: 2013 (Real-time polymerase chain reaction)

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司
Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Microbiological tests:-	
General foodstuff	- Aerobic plate count	US FDA Bacteriological Analytical Manual (BAM) Online (Jan. 2001) Ch. 3 (Conventional Plate Count Method)
	- Coliform count	AOAC Official Methods 991.14 (2005)
	- *E. coli* count	AOAC Official Methods 991.14 (2005)
	- *Salmonella*	US FDA Bacteriological Analytical Manual (BAM) Online (Feb 2014) Ch. 5
	- *Staphylococcus aureus*	US FDA Bacteriological Analytical Manual (BAM) Online (Jan. 2001) Ch. 12 (Direct Plate Count Method)
Water	- Heterotrophic plate count (35 °C)	APHA 23e 9215B (Pour Plate Method)
	- Total Coliform count	DoE(1983) The Bacteriological Examination of Drinking Water Supplies, 1982 Membrane Filtration Procedure: Sections 7.8, 7.9.4.1 and 7.9.4.2; Bacterial Confirmation: Section 7.9.4.3
	- Faecal Coliform count	DoE(1983) The Bacteriological Examination of Drinking Water Supplies, 1982 Membrane Filtration Procedure: Sections 7.8 and 7.9.4.2 Bacterial Confirmation: Section 7.7.6.3
	- *E. coli* count	DoE (1983) The Bacteriological Examination of Drinking Water Supplies, 1982 Membrane Filtration Procedure: Sections 7.8 and 7.9.4.2 Bacterial Confirmation: Section 7.9.4.4

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司
Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Miscellaneous 雜類

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Microbiological examinations:-	
Cosmetics	Tests for microbial contamination:	The SCCS's Notes of Guidance for the Testing of Cosmetics Ingredients and Their Safety Evaluation (8th Revision, December 2012) - Guidelines on Microbiological Quality of the Finished Cosmetic Product, 4-4.2 *Test Procedures for compliance testing:*
	- Total Viable Aerobic Count	- The United States Pharmacopeia 43-NF38 (2020), General Ch. <61> - British Pharmacopoeia (2021), App. XVI B-2 - European Pharmacopoeia 10th edition (2019), Ch. 2.6.12
	- Tests for Specified Microorganisms	- The United States Pharmacopeia 43-NF38 (2020), General Chapter <62> - British Pharmacopoeia (2021), App. XVI B-1 - European Pharmacopoeia 10th edition (2019), Ch. 2.6.13
Disposable Sanitary Products	- 細菌菌落總數 Total Bacteria Count - 大腸菌群 Coliform - 綠膿杆菌 *Pseudomonas Aeruginosa* - 金黃色葡萄球菌 *Staphylococcus aureus* - 溶血性鏈球菌 *Haemolyticus streptococcus* - 真菌菌落總數 Fungi Count	GB 15979-2002 中華人民共和國家標準：一次性使用衛生用品衛生標準 (附錄 B 產品微生物檢測方法) GB 15979-2002 Hygienic standard for disposable sanitary products (Appendix B)
Toilet tissue	- 細菌菌落總數 Total Bacteria Count - 大腸菌群 Coliform - 金黃色葡萄球菌 *Staphylococcus aureus* - 溶血性鏈球菌 *Haemolyticus streptococcus*	GB 20810-2018 中華人民共和國家標準：衛生紙（含衛生紙原紙）(附錄 C 微生物指標的測定) GB 20810-2018 Toilet tissue paper (including toilet tissue base paper) (Appendix C)
Hand Towel	- 細菌菌落總數 Total Bacteria Count - 大腸菌群 Coliform - 金黃色葡萄球菌 *Staphylococcus aureus* - 溶血性鏈球菌 *Haemolyticus streptococcus*	GB/T 24455-2009 中華人民共和國家標準：擦手紙 (附錄 A 微生物指標的測定) GB/T 24455-2009 Hand Towel (Appendix A)

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司
Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Pharmaceutical Products 藥物		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Microbiological examinations:-	
Non-sterile pharmaceutical preparations and substances for pharmaceutical use	Microbiological quality:	European Pharmacopoeia 10th edition (2019) Ch. 5.1.4 *Test Procedure for compliance testing:*
	- Microbial enumeration tests	European Pharmacopoeia 10th edition (2019) Ch. 2.6.12
	- Test for specified microorganisms Bile-tolerant Gram-negative Bacteria *Clostridia* *Escherichia coli* *Pseudomonas aeruginosa* *Salmonella* spp. *Staphylococcus aureus* *Candida albicans*	European Pharmacopoeia 10th edition (2019) Ch. 2.6.13
Non-sterile pharmaceutical preparations and substances for pharmaceutical use	Microbiological quality:	British Pharmacopoeia (2021), App. XVI D *Test Procedure for compliance testing:*
	- Microbial enumeration tests	British Pharmacopoeia (2021), App. XVI B-2
	- Test for specified microorganisms Bile-tolerant Gram-negative Bacteria *Clostridia* *Escherichia coli* *Pseudomonas aeruginosa* *Salmonella* spp *Staphylococcus aureus* *Candida albicans*	British Pharmacopoeia (2021), App. XVI B-1
Nonsterile pharmaceutical preparations and substances for pharmaceutical use	Microbiological acceptance criteria	The United States Pharmacopoeia 43-NF38 (2020), General Ch. <1111> *Test Procedure for compliance testing:*
	- Microbial Enumeration Tests	The United States Pharmacopeia 43-NF38 (2020), General Ch. <61>
	- Tests for Specified Microorganisms Bile-tolerant Gram-negative Bacteria *Clostridia* *Escherichia coli* *Pseudomonas aeruginosa* *Salmonella* spp. *Staphylococcus aureus* *Candida albicans*	The United States Pharmacopeia 43-NF38 (2020), General Ch. <62>

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司
Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Pharmaceutical Products 藥物

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
非無菌藥品	Microbiological examination : 非無菌產品微生物限度檢查: Microbiological Examination of Nonsterile products :- - 控制菌檢查法 - Test for specified microorganisms 耐膽鹽革蘭陰性菌 Bile-tolerant Gram negative bacteria 梭菌 *Clostridium* 大腸埃希菌 *Escherichia coli* 銅綠假單胞菌 *Pseudomonas aeruginosa* 沙門菌 *Salmonella* spp. 金黃色葡萄球菌 *Staphylococcus aureus* 白色念珠菌 *Candida albicans* - 微生物計數法 - Microbial enumeration tests 非無菌產品微生物限度檢查: Microbiological Examination of Nonsterile products :- - 控制菌檢查法 - Test for specified microorganisms 耐膽鹽革蘭陰性菌 Bile-tolerant Gram negative bacteria 梭菌 *Clostridium* 大腸埃希菌 *Escherichia coli* 銅綠假單胞菌 *Pseudomonas aeruginosa* 沙門菌 *Salmonella* spp. 金黃色葡萄球菌 *Staphylococcus aureus* 白色念珠菌 *Candida albicans* - 微生物計數法 - Microbial enumeration tests	中華人民共和國藥典 2015 年版四部 1107 段: 非無菌药品微生物限度標準 ***<不包括>*** 點 1 & 點 2 Pharmacopoeia of the People's Republic of China 2015, Volume IV, Part 1107 ***<Excluding the following>*** cl. 1 & 2 *Test Procedure for compliance testing:* 中華人民共和國藥典 2015 年版四部 1106 段 Pharmacopoeia of the People's Republic of China 2015, Volume IV, Part 1106 中華人民共和國藥典 2015 年版四部 1105 段 Pharmacopoeia of the People's Republic of China 2015, Volume IV, Part 1105 中華人民共和國藥典 2020 年版四部 1107 段: 非無菌药品微生物限度標準 ***<不包括>*** 點 1 & 點 2 Pharmacopoeia of the People's Republic of China 2020, Volume IV, Part 1107 ***<Excluding the following>*** cl. 1 & 2 *Test Procedure for compliance testing:* 中華人民共和國藥典 2020 年版四部 1106 段 Pharmacopoeia of the People's Republic of China 2020, Volume IV, Part 1106 中華人民共和國藥典 2020 年版四部 1105 段 Pharmacopoeia of the People's Republic of China 2020, Volume IV, Part 1105

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司
Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Pharmaceutical Products 藥物		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Microbiological examination :	
Purified water	Total aerobic microbial count	British Pharmacopoeia (2021), Volume II, Purified Water British Pharmacopoeia (2023), Volume II, Purified Water
純化水 Purified water	需氧菌總數 Total aerobic microbial count	中華人民共和國藥典 2020 年版二部純化水 Pharmacopoeia of the People's Republic of China 2020, Volume II, Purified Water

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司
Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Physical and Mechanical Testing 物理及機械測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Glass and glass product	Performance tests :-	
- Glass container with base dimension not exceeding 137 mm and height up to 550 mm	- Optical retardation	ASTM C148-17 < ***Excluding the following*** > Cl. 5; Determination of apparent temper number 6 and 7 using a polariscope
- Glass container in contact with foodstuffs with height up to 500 mm	- Thermal shock	BS EN 1183: 1997 Method B (for thermal shock endurance up to 160ºC)
Other product		
- Fluid and gas lighter	Safety and performance tests	BS EN ISO 9994: 2006 +A1: 2008 EN ISO 9994: 2006 + A1: 2008 ISO 9994: 2005/Amd 1: 2008 BS EN ISO 9994: 2019 EN ISO 9994: 2019 ISO 9994: 2018 < ***Excluding the following*** > for the above three standards 6.7.4.10; 6.10.4.3, 6.10.4.4
- Writing and marking instruments likely to be used by children up to age of 14 - 書寫用具	Safety tests for safety caps 筆帽安全測試	BS 7272-1: 2008
	Safety tests for end closures	BS 7272-2: 2008 + A1: 2014

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司
Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Textiles and Garments 紡織品及成衣		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Specific product	Construction tests :-	
- Children's clothing	- Measurement of cord and drawn string	BS EN 14682: 2014

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司
Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Textiles and Garments 紡織品及成衣

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Flammability tests :-	
General Textiles and Garments	- 45° angle test	US 16 CFR Part 1610
Specific product		
- Bed cover and pillow	- Ignitability by smouldering and flaming ignition source	BS EN ISO 12952-1: 2010
- Mattress, divan and bed base	- Resistance to ignition	BS 7177: 2008 + A1: 2011 BS 7177: 1996 (Low hazard to high hazard) BS 7177: 1996 with Amendment No. 1 (Low hazard to high hazard) BS EN 597-1: 1995 BS EN 597-2: 1995 BS 6807: 1996 Section 2: sources 2 to 7 BS 6807: 2006 < ***Excluding the following*** > Cl. 10
- Textile floor covering	- Hot metal nut method	BS 4790: 1987 with Amendment No. 1 and 2
	- Assessment and labelling	BS 5287: 1988

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司
Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Textiles and Garments 紡織品及成衣

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Specific products (cont'd)	Flammability tests :-	
- Upholstered furniture (Non-domestic seating)	- Resistance to ignition (Testing composite)	BS 7176: 2007 + A1: 2011 (Low hazard to high hazard) BS 7176: 1995 (Low hazard to high hazard) BS 7176: 1995 with Amendment No. 1 (Low hazard to high hazard) < ***Excluding the following*** > for the above three standards Dry cleaning fabrics BS EN 1021-1: 2006 BS EN 1021-1: 1994 BS EN 1021-2: 2006 BS EN 1021-2: 1994
- Upholstered seating	- Ignitability by smouldering and flaming ignition sources	BS 5852: 2006 ***<Excluding the following>*** Section 12 BS 5852: 1990 ***<Excluding the following>*** Section 5

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司
Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Textiles and Garments 紡織品及成衣

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Specific product (cont'd)	Flammability tests :-	
- Upholstered composite for seating including:	- Ignitability by smouldering and flaming ignition source	The Furniture and Furnishings (Fire) (Safety) Regulations 1988 (Statutory Instrument 1988 No. 1324) with Amendments issued in 1989 (Statutory Instrument 1989 No. 2358), 1993 (Statutory Instrument 1993 No. 207) and 2010 (Statutory Instrument 2010 No. 2205)
- Polyurethane foam in slab or cushion form		Schedule 1 Part I using test method BS 5852: Part 2: 1982 (Ignition Source 5)
- Polyurethane foam in crumb form		Schedule 1 Part II using test method BS 5852: Part 2: 1982 (Ignition Source 2)
- Latex rubber foam		Schedule 1 Part III using test method BS 5852: Part 2: 1982 (Ignition Source 2)
- Non-foam filling materials singly		Schedule 2 Part I using test method BS 5852: Part 2: 1982 (Ignition Source 2)
- Composite filling for furniture other than mattress, bed-base, cushion and pillow		Schedule 2 Part II using test method BS 5852: Part 2: 1982 (Ignition Source 2)
- Composite filling for pillow and cushion with primary cover		Schedule 2 Part III using test method BS 5852: Part 2: 1982 (Ignition Source 2)
- Composite filling of mattress and bed-base		Schedule 2 Part IV using test method BS 5852: Part 2: 1982 (Ignition Source 2) BS 6807: 1986 Section 4
- Interliner		Schedule 3 using test method BS 5852: Part 2: 1982 (Ignition Source 5)
- Visible part of upholstery		Schedule 4 Part I using test method BS 5852: Part 1: 1979 (Cigarette test)
- Non-visible part of upholstery		Schedule 4 Part II using test method BS 5852: Part 1: 1979 (Cigarette test)

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司
Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Textiles and Garments 紡織品及成衣

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Flammability tests :-	
Specific products (cont'd)		
- Upholstered composite for seating including: (cont'd)	- Ignitability by smouldering and flaming ignition source (cont'd)	The Furniture and Furnishings (Fire) (Safety) Regulations 1988 (Statutory Instrument 1988 No. 1324) with Amendments issued in 1989 (Statutory Instrument 1989 No. 2358), 1993 (Statutory Instrument 1993 No. 207) and 2010 (Statutory Instrument 2010 No. 2205)
- Visible cover		Schedule 5 Part I using test method BS 5852: Part 1: 1979 (Ignition Source 1)
- Stretch cover		Schedule 5 Part II using test method BS 5852: Part 1: 1979 (Ignition Source 1)
- Non-visible cover		Schedule 5 Part III using test method BS 5852: Part 1: 1979 (Ignition Source 1)

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司
Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests :-	
Toys – paint and similar surface-coating materials	- Total lead content	ASTM F963-23 Cl. 4.3.5.1 (1) *Test procedures for compliance testing:-* CPSC Test method: CPSC-CH-E1003-09.1 Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings, February 25, 2011
	- Migration of the elements Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	ASTM F963-23 Cl. 4.3.5.1 (2) *Test procedures for compliance testing:-* ASTM F963-23 Cl. 8.3.2 – 8.3.4
	- Screening of total element content	ASTM F963-23 Cl. 4.3.5.1 (1) & (2) *Test procedure for compliance testing:-* In-house method TG-T&M-C-002 SOP 6 (ICP-OES)
Toys – substrate materials (excluding children's jewelry)	- Total lead content	ASTM F963-23 Cl. 4.3.5.2 (2)(a) *Test procedures for compliance testing:* CPSC Test Method: CPSC-CH-E1001-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Metal Children's Products (including Children's Metal Jewelry), November 15, 2012. ***<Excluding the following>*** XRF spectrometry CPSC Test Method: CPSC-CH-E1002-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Non-Metal Children's Products, November 15, 2012. ***<Excluding the following>*** XRF spectrometry
	- Migration of the elements Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	ASTM F963-23 Cl. 4.3.5.2 (2) (b) & (c) *Test procedures for compliance testing:-* ASTM F963-23 Cl. 8.3.5
	- Screening of total element content	ASTM F963-23 Cl. 4.3.5.2 (2) (a) & (b) & (c) *Test procedures for compliance testing:* In-house method TG-T&M-C-002 SOP 7 & 8 (ICP-OES)

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司
Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests :-	
Metallic toys or metallic toy components (excluding children's jewelry)	- Extractable Cadmium	ASTM F963-23 Cl. 4.3.5.2 (2)(d) *Test procedures for compliance testing:* ASTM F963-23 Cl. 8.3.5.5(3) and CPSC Test Method: CPSC-CH-E1004-11 Standard Operating Procedure for Determining Cadmium (Cd) Extractability from Children's Metal Jewelry February 03, 2011
Plasticized component of toys (including pacifiers, rattles, and teethers) for children 12 years of age and younger	- Dibutyl phthalate (DBP) - Bis (2-ethylhexyl) phthalate (DEHP) - Butyl benzyl phthalate (BBP) - Diisobutyl phthalate (DIBP) - Di-isononyl phthalate (DINP) - Di-n-pentyl phthalate (DPENP) - Di-n-hexyl phthalate (DHEXP) - Dicyclohexyl phthalate (DCHP)	ASTM F963-23 Cl. 4.3.8 *Test procedure for compliance testing*: CPSC Test Method: CPSC-CH-C1001-09.4 Standard Operating Procedure for Determination of Phthalates, January 17, 2018

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司
Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Chemical tests :-	
Toys – paint and similar surface-coating materials	- Total lead content	ASTM F963-17 Cl. 4.3.5.1 (1) *Test procedures for compliance testing:-* CPSC Test method: CPSC-CH-E1003-09.1 Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings, February 25, 2011
	- Migration of the elements Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	ASTM F963-17 Cl. 4.3.5.1 (2) *Test procedures for compliance testing:-* ASTM F963-17 Cl. 8.3.2 – 8.3.4
	- Screening of total element content	ASTM F963-17 Cl. 4.3.5.1 and 8.3.1 *Test procedure for compliance testing:-* In-house method TG-T&M-C-002 SOP 6 (ICP-OES)
Toys – substrate materials (excluding children's jewelry)	- Total lead content	ASTM F963-17 Cl. 4.3.5.2 (2)(a) *Test procedures for compliance testing:* CPSC Test Method: CPSC-CH-E1001-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Metal Children's Products (including Children's Metal Jewelry), November 15, 2012. ***<Excluding the following>*** XRF spectrometry CPSC Test Method: CPSC-CH-E1002-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Non-Metal Children's Products, November 15, 2012. ***<Excluding the following>*** XRF spectrometry
	- Migration of the elements Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	ASTM F963-17 Cl. 4.3.5.2 (2) (b) *Test procedures for compliance testing:-* ASTM F963-17 Cl. 8.3.5

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司
Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests :-	
Toys – substrate materials (excluding children's jewelry) (cont'd)	- Total element content	ASTM F963-17 Cl. 4.3.5.2 (2) and 8.3.1 *Test procedures for compliance testing:* In-house method TG-T&M-C-002 SOP 7 & 8 (ICP-OES)
Metallic toys or metallic toy components (excluding children's jewelry)	- Extractable Cadmium	ASTM F963-17 Cl. 4.3.5.2 (2)(c) *Test procedures for compliance testing:* ASTM F963-17 Cl. 8.3.5.5(3) and CPSC Test Method: CPSC-CH-E1004-11 Standard Operating Procedure for Determining Cadmium (Cd) Extractability from Children's Metal Jewelry February 03, 2011

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司
Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Chemical tests :-	
Toys and other articles intended for use by children – paint and other similar surface-coating materials	- Total lead content	US Public Law 110 -314 Consumer Product Safety Improvement Act 2008 US 16 CFR Part 1303 *Test procedures for compliance testing:-* CPSC Test method: CPSC-CH-E1003-09.1 Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings, 25 February 2011
Children's metal products	- Total lead content	US Public Law 110 -314 Consumer Product Safety Improvement Act 2008 *Test procedure for compliance testing*: CPSC Test Method: CPSC-CH-E1001-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Metal Children's Products (including Children's Metal Jewelry), November, 15, 2012. ***<Excluding the following>*** XRF spectrometry
Children's non-metal products	- Total lead content	US Public Law 110 -314 Consumer Product Safety Improvement Act 2008 *Test procedures for compliance testing*: CPSC Test Method: CPSC-CH-E1002-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Non-Metal Children's Products, November 15, 2012. ***<Excluding the following>*** XRF spectrometry

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司
Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Toys – surface coating material	Chemical tests :-	
	- Total lead content	Canada Toys Regulations SOR/2011-17 Section 23 (amended to SOR/2016-195) *Test procedure for compliance testing:* Health Canada Product Safety Reference manual Book 5 – Laboratory Policies and Procedures Part B: Test Methods Section, Method C-02.2 (2013-10-16): Determination of Total Lead in Surface Coating Materials in Consumer Products
	- Total mercury content	*Test procedure for compliance testing:* In-house method TG-T&M-C-022 SOP 4 (ICP-MS)
	- Leachable arsenic, selenium, cadmium, antimony and barium	*Test procedure for compliance testing:* Health Canada Product Safety Reference manual Book 5 – Laboratory Policies and Procedures Part B: Test Methods Section, Method C-03 (2014-02-20) (with modification using ICP-OES for instrumental analysis): Determination of Leachable Arsenic (As), Selenium (Se), Cadmium (Cd), Antimony (Sb) and Barium (Ba) in Applied Coatings

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司
Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Chemical tests :-	
Furniture and other articles for children – surface coating material	- Total lead content	Canada Surface Coating Materials Regulations (SOR/2016-193), Section 6a *Test procedure for compliance testing:* Health Canada Product Safety Reference manual Book 5 – Laboratory Policies and Procedures Part B: Test Methods Section, Method C-02.2 (2013-10-16): Determination of Total Lead in Surface Coating Materials in Consumer Products
Pencils and artists' brushes - surface coating Material	- Total lead content	Canada Surface Coating Materials Regulations (SOR/2016-193), Section 6b *Test procedure for compliance testing:* Health Canada Product Safety Reference manual Book 5 – Laboratory Policies and Procedures Part B: Test Methods Section, Method C-02.2 (2013-10-16): Determination of Total Lead in Surface Coating Materials in Consumer Products
Surface coating material	- Total mercury content	Canada Surface Coating Materials Regulations (SOR/2005-109), Section 7 Canada Surface Coating Materials Regulations (SOR/2016-193), Section 5 *Test procedure for compliance testing:* In-house method TG-T&M-C-022 SOP 4 (ICP-MS)

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司
Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests :-	
All toys	- Migration of the elements antimony, arsenic, barium, cadmium, chromium, lead, mercury, selenium	AS/NZS ISO 8124.3: 2012 + Amdt 1: 2016 EN 71-3: 1994 + A1: 2000 + AC: 2002 ISO 8124-3: 2020 (for dewaxing: Method A only)
Toys 玩具	- Migration of the elements Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium - 可遷移元素 銻, 鉮, 汞, 鉻, 砷, 鋇, 硒, 銻	GB 6675.1-2014 Cl. 5.3.3 *Test procedure for compliance testing:* GB 6675.4-2014
	- Benzyl Butyl Phthalate (BBP) - Dibutyl phthalate (DBP) - Bis (2-ethylhexyl) phthalate (DEHP) - Di-n-octyl phthalate (DNOP) - Di-isononyl phthalate (DINP) - Di-isodecyl phthalate (DIDP)	GB 6675.1-2014 Cl. 5.3.7 *Test procedure for compliance testing:* GB/T 22048: 2015 Method A
Toys	- Cellulose nitrate/Celluloid	Canada Toys Regulations SOR/2011-17 Section 21 c.H-3, Schedule I Part I Item 7 *Test method for compliance testing:* In-house method TG-T&M-C-010 (by Sulphuric acid test, Molisch Test and FT-IR)
Textile products for toys	Formaldehyde (Free & hydrolyzed)	ISO 14184-1: 2011

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司
Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests :-	Japan Toy Safety Standard ST 2016 Third Edition (2019.12.3) Part 3 (based on English version provided by JTA)
All toys' materials		Cl. 1.1 *Test procedure for compliance testing*:
	- Colouring matters	Cl. 2.1
Materials which are mainly composed of polyethylene, polyvinyl chloride (excluding parts on which paint coating is applied)		Cl. 1.2 *Test procedures for compliance testing*:
	- Consumption of potassium permanganate	Cl. 1.2.1 & Cl. 2.2
	- Residue on evaporation	Cl. 1.2.1 & Cl. 2.3
	- Heavy metals	Cl. 1.2.1 & Cl. 2.4
	- Arsenic	Cl. 1.2.1 & Cl. 2.5
	- Cadmium (excluding materials mainly composed of polyethylene)	Cl. 1.2.1 & Cl. 2.6
Decalcomania, folder paper and rubber-made toys (excluding rubber pacifiers)		Cl. 1.3 *Test procedures for compliance testing*:
	- Heavy metals	Cl. 1.3.1 & Cl. 2.4
	- Arsenic	Cl. 1.3.1 & Cl. 2.5
Vinyl chloride resin coating		Cl. 1.4 *Test procedures for compliance testing*:
	- Consumption of potassium permanganate	Cl. 1.4.1 & Cl. 2.2
	- Residue on evaporation	Cl. 1.4.1 & Cl. 2.3
The paint coating applied to the body or the components of the toys (excluding the printing ink used for paper containers) (including vinyl chloride resin coating)		Cl. 1.5 *Test procedures for compliance testing*:
	- Heavy metals: 8 elements (antimony, arsenic, barium, cadmium, chromium, lead, mercury and selenium)	Cl. 1.5.1 & Cl. 2.7 (1) ①, (2) & (3)
Textile products used for toys		Cl. 1.6 *Test procedures for compliance testing*:
	- Free formaldehyde	Cl. 1.6 (with modification) & Cl. 2.8 (with modification) < ***Excluding the following*** > Confirmation test by HPLC

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司
Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests :-	Japan Toy Safety Standard ST 2016 Third Edition (2019.12.3) Part 3 (based on English version provided by JTA)
Ink and the like used for the graphic instruments that are provided with the toys such as pencils, ball-point pens, markers, crayons, pastels, water colours, chalks, etc.	- Colouring matters - Heavy metals: 8 elements (antimony, arsenic, barium, cadmium, chromium, lead, mercury and selenium)	Cl. 1.8 *Test procedures for compliance testing*: Cl. 2.1 Cl. 1.8.2 & Cl. 2.7 (1) ②, (2) & (3)
Synthetic resin mainly composed of polyvinyl chloride, polyurethane and rubber for which phthalate compound is used as raw material (including those used for paint coating)	- Bis (2-ethylhexyl) phthalate (DEHP) - Dibutyl phthalate (DBP) - Butyl benzyl phthalate (BBP) - Di-isononyl phthalate (DINP) - Di-isodecyl phthalate (DIDP) - Di-n-octyl phthalate (DNOP)	Cl. 1.9 < ***Excluding the following*** > Cl. 1.9.3 *Test procedure for compliance testing*: Cl. 2.10 (with modifications) ***<Excluding the following>*** Characterization & content determination tests by C-FID
Metals used for toy (neither painted nor covered)	- Lead	Cl. 1.11 *Test procedures for compliance testing*: Cl. 2.12 & 2.7 (2) & (3)

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司
Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests :-	Specifications and Standards for Foods, Food Additives, etc. under the Food Sanitation Act (ABSTRACTS) 2010, JETRO April 2011, Part V "TOYS" *Test procedure for compliance testing:-* Specifications, Standards and Testing Methods for Foodstuffs, Implements, Containers and Packaging, Toys, Detergents, JETRO January 2009 (following the tentative English translation published by JETRO in January 2009 and Amd. by MHLW Notification No. 336, September 6, 2010)
Decals	- Heavy metals - Arsenic	Part III A-1 & Part II B-4 Part III A-1 & Part II B-7
Origami paper	- Heavy metals - Arsenic	Part III A-2 & Part III A-1 (2)a & Part II B-4 Part III A-2 & Part III A-1 (2)b & Part II B-7
Coating film of toys	- Cadmium, lead and arsenic	Part III A-4 & Part II B-3 Part III A-4 & Part II B-9
Coating film coated by using Polyvinyl chloride	- Potassium permanganate consumption - Evaporation of residue	Part III A-5 & Part II B-1 Part III A-5 & Part II B-5
Parts (excluding coating film) manufactured using materials mainly composed of polyvinyl chloride	- Potassium permanganate consumption - Heavy metals - Cadmium - Evaporation of residue - Arsenic	Part III A-6 & Part III A-5(2)a & Part II B-1 Part III A-6 & Part III A-1(2)a & Part II B-4 Part III A-6 & Part II B-3 Part III A-6 & Part II B-9 Part III A-6 & Part III A-5(2)b & Part II B-5 Part III A-6 & Part III A-1(2)b & Part II B-7
All designated toys with parts made from plasticized materials	- Butyl benzyl phthalate (BBP) - Bis (2-ethylhexyl) phthalate (DEHP) - Dibutyl phthalate (DBP)	Part III A-7 *Test procedures for compliance testing*: ST2016 Second Edition (2018.5.30), Part 3, Cl. 2.10 (with modifications) (for PVC, rubber and PU) ***<Excluding the following>*** Characterization & content determination tests by GC-FID CPSC Test Method: CPSC-CH-C1001-09.3 Standard Operating Procedure for Determination of Phthalates, 1 April 2010 (for any other plasticized materials)

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司
Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests :-	Specifications and Standards for Foods, Food Additives, etc. under the Food Sanitation Act (ABSTRACTS) 2010, JETRO April 2011, Part V "TOYS" *Test procedure for compliance testing:-* Specifications, Standards and Testing Methods for Foodstuffs, Implements, Containers and Packaging, Toys, Detergents, JETRO January 2009 (following the tentative English translation published by JETRO in January 2009 and Amd. by MHLW Notification No. 336, September 6, 2010) (cont'd)
Parts of toys (other than those intended to come into direct contact with infant's mouth) made from synthetic resins which are mainly composed of polyvinyl chloride	- Di-isononyl phthalate (DINP)	Part III A-8 *Test procedure for compliance testing*: ST2016 Second Edition (2018.5.30), Part 3 Cl. 2.10 (with modifications) ***<Excluding the following>*** Characterization & content determination tests by GC-FID
Parts made from plasticized materials that intended to come into direct contact with infant's mouth	- Di-isodecyl phthalate (DIDP) - Di-isononyl phthalate (DINP) - Di-n-octyl phthalate (DNOP)	Part III A-9 *Test procedures for compliance testing*: ST2016 Second Edition (2018.5.30), Part 3, Cl. 2.10 (with modifications) (for PVC, rubber and PU) ***<Excluding the following>*** Characterization & content determination tests by GC-FID CPSC Test Method: CPSC-CH-C1001-09.3 Standard Operating Procedure for Determination of Phthalates, 1 April 2010 (for any other plasticized materials)
Parts (excluding coating film) manufactured using materials mainly composed of polyethylene	- Potassium permanganate consumption - Heavy metals - Evaporation of residue - Arsenic	Part III A-10 & Part III A-5(2)a & Part II B-1 Part III A-10 & Part III A-1(2)a & Part II B-4 Part III A-10 & Part III A-5(2)b & Part II B-5 Part III A-10 & Part III A-1(2)b & Part II B-7
Metal jewelry toys that might be swallowed by infants and small children	- Lead	Part III A-11 & Part II B-3 Part III A-11 & Part II B-9
Synthetic resin-based colouring agents used in the manufacture of toys	- Colouring agent	Part III B

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司
Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests :-	
Toys made of PVC plastic materials only(cutlery and feeding utensils, excluding feeding bottles, teats, spouts, cups and childcare articles)	- Bis (2-ethylhexyl) phthalate (DEHP) - Dibutyl phthalate (DBP) - Benzyl butyl phthalate (BBP) - Di-isononyl phthalate (DINP) - Di-isodecyl phthalate (DIDP) - Di-n-octyl phthalate (DNOP)	Regulation (EC) No. 1907/2006 on REACH Annex XVII Item No. 51/52 as amended by Commission Regulation (EC) No. 552/2009 *Test method for* testing *of the contents of 6 phthalates:-* EN 14372: 2004 (E), cl. 3. cl. 4, cl. 5.4.2.1, cl. 5.4.2.3, cl. 6.3.2 & Annex A (by GC-MS) ***< Excluding the following >*** Gravimetric analysis given under cl. 6.3.2.7
Toys	- Bis (2-ethylhexyl) phthalate (DEHP) - Dibutyl phthalate (DBP) - Benzyl butyl phthalate (BBP) - Di-isononyl phthalate (DINP) - Di-isodecyl phthalate (DIDP) - Di-n-octyl phthalate (DNOP)	Regulation (EC) No. 1907/2006 on REACH Annex XVII Item No. 51/52 as amended by Commission Regulation (EC) No. 552/2009 *Test procedure for compliance testing:-* CPSC Test Method: CPSC-CH-C1001-09.3 Standard Operating Procedure for Determination of Phthalates, 1 April 2010
Toys for children, and childcare articles intended to facilitate sleep or feeding	- Dibutyl Phthalate (DBP) - Di-(2ethylhexyl) phthalate (DEHP) - Benzyl Butyl Phthalate (BBP) - Di-n-octyl phthalate (DnOP) - Diisononyl phthalate (DINP) - Diisodecyl phthalate (DIDP)	CPSC Test Method: CPSC-CH-C1001-09.3 Standard Operating Procedure for Determination of Phthalates, 1 April 2010 (excluding optional pre-screen procedure using IR spectrometry)
Toys and childcare articles	- Dibutyl phthalate (DBP) - Bis (2-ethylhexyl) phthalate (DEHP) - Butyl benzyl phthalate (BBP) - Diisobutyl phthalate (DIBP) - Di-isononyl phthalate (DINP) - Di-n-pentyl phthalate (DPENP) - Di-n-hexyl phthalate (DHEXP) - Dicyclohexyl phthalate (DCHP)	US 16 CFR Part 1307 *Test procedure for compliance testing*: CPSC Test Method: CPSC-CH-C1001-09.4 Standard Operating Procedure for Determination of Phthalates, January 17, 2018

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司
Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests :-	
Toys	- Migration of certain elements	BS EN 71-3: 2019 + A1: 2021 EN 71-3:2019 + A1: 2021
Category I toy materials: Dry, brittle, powder like or pliable materials	Aluminium, Antimony, Arsenic, Barium, Boron,Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Mercury, Nickel, Selenium, Strontium, Tin and Zinc	Alternative method as documented in TG-T&M-C-102 (ICP-OES and ICP-MS)
	Chromium (VI) Chromium (III) (by calculation)	Alternative method as documented in TG-T&M-C-103 (LC-ICP-MS)
	Organic Tin: Methyl tin, Butyltin, Dibutyl tin, Tributyl tin Tetrabutyl tin, n-Octy tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin, Triphenyl tin, Dimethyl-tin	Annex G (GC-MS)
Category III toy materials: Scraped-off materials	Aluminium, Antimony, Arsenic, Barium, Boron,Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Mercury, Nickel, Selenium, Strontium, Tin and Zinc	Alternative method as documented in TG-T&M-C-102 (ICP-OES)
	Chromium (VI) Chromium (III) (by calculation)	Alternative method as documented in TG-T&M-C-103 (LC-ICP-MS)
	Organic Tin: Methyl tin, Butyltin, Dibutyl tin, Tributyl tin Tetrabutyl tin, n-Octy tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin, Triphenyl tin, Dimethyl-tin	Annex G (GC-MS)

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司
Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Electrical tests :- 電性能測試	
Battery operated toy	- Battery operated toys safety tests	ASTM F963-23 Section 4.25 < ***Excluding the following*** > Cl. 4.25.7.1, 4.25.9 and 4.25.10 ASTM F963-17 Section 4.25 < ***Excluding the following*** > Cl. 4.25.8.1, 4.25.10 and 4.25.11
Electric toy < ***Excluding the following*** > - ride-on toy	- Safety tests	BS EN 62115: 2005 + A12: 2015 EN 62115: 2005 + A12: 2015 < ***Excluding the following*** > for the above two standards Cl. 11.1 (tests to IEC 60529) and 14.15; Sect. 20; Annexes C, E and ZC IEC 62115: 2017 BS EN IEC 62115: 2020 + A11: 2020 < ***Excluding the following*** > for the above two standards Cl. 13.8, Sect. 11 (tests to IEC 60529) and 19; Annexes C, D and E

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司
Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Toy	Flammability tests : -	ISO 8124-2: 2023 ISO 8124-2: 2014 AS/NZS 8124-2: 2016 ***< Excluding the following >*** for the above three standards Tests for flammable gel, extremely flammable liquid, highly flammable liquid, flammable gas; viscosity test Japan Toy Safety Standard ST2016 Third Edition (December 3, 2019) Part 2 (based on English version provided by JTA in December 3 2019) ***< Excluding the following >*** Tests for flammable gel, extremely flammable liquid, highly flammable liquid, flammable gas; viscosity test Japan Toy Safety Standard ST2016 Fourth Edition (October 4, 2022) Part 2 (based on English version provided by JTA in December 3 2019 and translation of revision notice in October 4, 2022) ***<Excluding the following>*** Tests for flammable gel, extremely flammable liquid, highly flammable liquid, flammable gas; viscosity test EN 71-2: 2011 + A1: 2014 BS EN 71-2: 2011 + A1: 2014 EN 71-2: 2020 BS EN 71-2: 2020 ***<Excluding the following>*** for the above four standards Tests for flammable gel, extremely flammable liquid, highly flammable liquid, flammable gas; viscosity test

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司
Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Toy	Flammability test :	16 CFR Parts 1500.3(c)(6)(vi) & 1500.44 16 CFR Part 1610 ASTM F963-23 Section 4.2 ASTM F963-17 Section 4.2 Canada Toys Regulations (SOR/2011-17) (last amended on 11 January 2019) Section 32, 33 and 34 GB 6675.1: 2014 Cl. 5.2, and GB 6675.3: 2014 ***<Excluding the following >*** Tests for flammable gas, highly flammable liquid, highly flammable solid and flammable gels; viscosity test
玩具	燃燒性能測試 :	GB 6675.1: 2014 Cl. 5.2, 及 GB 6675.3: 2014 ***<不包含>*** 易燃氣體、高度易燃液體、 高度易燃固體、易燃凝膠體的測試; 粘度測試

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司
Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Microbiological tests:-	
Toy cosmetics, liquids, pastes, putties, gels, and powders **< *Excluding the following* >** - avian feather products	Cleanliness of Materials	ASTM F963-17 Clause 4.3.6.3 and 8.4.1 *Test Procedures for compliance testing:* The United States Pharmacopeia 35 (2012), General Ch. <61>
	- Microbial Enumeration Tests	
	- Tests for Specified Microorganisms	*Test Procedures for compliance testing:* The United States Pharmacopeia 35 (2012), General Ch. <62>

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司
Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Physical and mechanical tests :-	
Toys	- Safety requirements and test methods	ISO 8124-1: 2018 + A1: 2020 + A2: 2020 ***<Excluding the following>*** Cl. 4.8.2, 4.12.2, 4.15, 4.16.2.2, 4.18.4.1, 4.21, 4.22, 4.23 and 4.26c) and 4.29 (push and pull toy and hand-activated spring-propelled toy) and 4.30; tests for large and bulky toy ISO 8124-1: 2022 ***<Excluding the following>*** Cl. 4.8.2, 4.12.2, 4.15, 4.16.2.2, 4.18.4.1, 4.21, 4.22, 4.23 and 4.26c) and 4.29 (push and pull toy and hand-activated spring-propelled toy) and 4.30; tests for large and bulky toy
Toy	- Safety requirements and test methods	AS/NZS 8124.1: 2019 ***<Excluding the following>*** Cl. 4.8.2, 4.12.2, 4.15, 4.16.2.2, 4.18.4.1, 4.21, 4.22, 4.23, 4.26c), 4.29 (push and pull toy and hand-activated spring-propelled toy) and 4.30; tests for large and bulky toy

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司
Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Physical and mechanical tests :-	
Toy	- Safety requirements and test methods	Japan Toy Safety Standard ST2016 Third Edition (December 3, 2019) Part 1 (based on English version provided by JTA) in December 3, 2019) ***<Excluding the following>*** Cl. 4.12.2, 4.15, 4.16.2.2, 4.18.3.1, 4.22c), 4.23 (pull and push toy, hand-activated spring-propelled toy), tests for large and bulky toy Japan Toy Safety Standard ST2016 Fourth Edition (October 4, 2022) Part 1 (based on English version provided by JTA in December 3, 2019 and translation of revision notice in October 4, 2022) ***<Excluding the following>*** Cl. 4.12.2, 4.15, 4.16.2.2, 4.18.3.1, 4.22c), 4.23 (pull and push toy, hand-activated spring-propelled toy), tests for large and bulky toy
	Physical and mechanical tests :- 機械和物理性能測試: -	
Toy	- Safety requirements and test methods	GB 6675.1: 2014 Cl. 5.1.1 to 5.1.11, 5.5.2, 5.7, and GB 6675.2: 2014 ***<Excluding the following >*** Cl. 4.12.2, 4.16.2.2, 4.20, 4.21, 4.22, 4.25c), 4.28 (test for push and pull toy and hand-activated spring-propelled toys)
玩具	- 安全規定及測試方法	GB 6675.1: 2014 Cl. 5.1.1 to 5.1.11, 5.5.2, 5.7, 及 GB 6675.2: 2014 ***<不包含>*** Cl. 4.12.2, 4.16.2.2, 4.20, 4.21, 4.22, 4.25c), 4.28 (推拉玩具和手動彈簧驅動玩具的測試)
Toy	- Instructions for use of toys	GB/T 5296.5-2006
玩具	- 玩具使用說明	GB/T 5296.5-2006

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司
Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Physical and mechanical tests :-	
Toy	- Safety requirements and test methods	BS EN 71-1: 2014 + A1: 2018 EN 71-1: 2014 + A1: 2018 ***<Excluding the following>*** for the above two standards Cl. 4.10.1c), 4.11c). 4.11e), 4.14.1c), 4.15 4.18 (tests to EN 15649-3), 4.20.2.5, 4.20.2.8, 4.20.2.12, 4.22 (toy with a ball attached by a string, elastic similar such that the ball is suspended freely) and 5.10 (toy with a ball attached by a string, elastic similar such that the ball is suspended freely); tests for large and bulky toy
Toy	- Safety requirements :-	ASTM F963-23 Section 4.1, 4.3.7, 4.5 to 4.14, 4.16 to 4.19, 4.21 to 4.24, 4.26 to 4.28, 4.30 to 4.36, 4.38 to 4.40 ***<Excluding the following>*** Section 4.1 (reprocessed materials test to 4.3.1), 4.5 (tests for user-propelled modes of tabletop, floor, crib toys, pull and push toy), 4.6.2
	Labeling requirements	Section 5
	Instructional literature	Section 6
	Producer's markings	Section 7
	Test methods	Section 8
	- Safety requirements :-	ASTM F963-17 Section 4.1, 4.3.7, 4.5 to 4.14, 4.16 to 4.19, 4.21 to 4.24, 4.26 to 4.28, 4.30 to 4.36, 4.38 to 4.40 ***<Excluding the following>*** Section 4.1 (reprocessed materials test to 4.3.1), 4.5 (tests for pull and push toy and hand-activated spring-propelled toy), 4.6.2
	Labeling requirements	Section 5
	Instructional literature	Section 6
	Producer's markings	Section 7
	Test methods	Section 8

CMA Industrial Development Foundation Limited
香港中華廠商聯合會工業發展基金有限公司
Rm. 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 9-13 號仁興中心 1302 室

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Physical and mechanical tests :-	
Toy	- Safety tests	Federal Hazardous Substances Act Regulations 16 CFR 1500.48 16 CFR 1500.49 16 CFR 1500.50 16 CFR 1500.51 16 CFR 1500.52 16 CFR 1500.53 16 CFR 1501 16 CFR 1510
Toys	- Safety Requirements:	Canada Toys Regulations (SOR/2011-17) (last amended on 11 January 2019) Section 3, 4, 7 to 19, 28 to 31, 37, 40, 41, 43 and 44 < ***Excluding the following*** > Section 19 (push and pull toy), 29(c), 29(d)

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司

ADDRESS : 2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
地址 香港九龍青山道五百七十六號製衣中心二字樓

ENQUIRY : Mr Wallace HO Kwok-fu
查詢 Manager - Compliance and Quality Assurance
何國富先生

TELEPHONE : 2173 8888
電話

FAX : 3403 7398
傳真

E-MAIL : wallace.ho@intertek.com
電郵

WEBSITE ADDRESS : www.intertek.com.hk
網址

CLIENTELE : Public
服務對象 公眾

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司

ADDRESS
地址 : 2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Unit A, 9/F, Hang Cheong Factory Building, 1 Wing Ming Street, Kowloon, Hong Kong
香港九龍永明街一號恆昌工廠大廈九樓 A 室

Flat A, 2/F, Joy Fat Factory Building, 483F-G Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道四百八十三號 F-G 二樓 A 室

Workshop No. 3, G/F, World-wide Industrial Centre, 43-47 Shan Mei Street, Fotan, Shatin, N.T., Hong Kong
香港新界沙田火炭山尾街 43-47 號環球工業中心地下 3 號

Unit 7-10, Ground Floor, Trans Asia Centre, 18 Kin Hong Street, Kwai Chung, N.T., Hong Kong
香港新界葵涌健康街 18 號恆亞中心地下 7-10 號單位

ACCREDITED TEST CATEGORY
認可測試類別 : Testing Required by the China Compulsory Certification System (CCC)
中國強制性產品認證制度規定的檢測
Chemical Testing 化學測試
Chinese Medicine 中藥
Electrical and Electronic Products 電氣及電子產品
Environmental Testing 環境測試
Food 食品
Miscellaneous 雜類
Pharmaceutical Products 藥物
Physical and Mechanical Testing 物理及機械測試
Textiles and Garments 紡織品及成衣
Toys and Children's Products 玩具及兒童產品

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Testing Required by the China Compulsory Certification System (CCC) 中國強制性產品認證制度規定的檢測

ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Electrical switch, protective device and connection device 電路開關及保護或連接用電器裝置		
- Switch for household and similar fixed electrical installation *(0202)* ***<Excluding the following>***	All required tests as specified in CNCA-C02-01: 2014	
- Switch having a rated current of over 45A - Three-phase switch - Switch having a protective enclosure against access to hazardous parts, ingress of solid foreign objects and ingress of water - Switch intended for a self ballasted lamp load	- Safety tests	GB/T 16915.1-2014
- 家用和類似用途固定式電氣裝置的開關（*0202*） ***<不包括>***	CNCA-C02-01: 2014 有關規定的所有檢測項目	
- 額定電流大於 45A 的開關 - 三相開關 - 帶有防止與危險部件接觸、防外部固體物進入和防有害進水的保護外殼的開關 - 用於控制自鎮流燈的開關	- 安全檢測項目	GB/T 16915.1-2014

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Testing Required by the China Compulsory Certification System (CCC) 中國強制性產品認證制度規定的檢測		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Electronic product and safety accessory 電子產品及安全附件		
- Colour television receiver and TV set-top box *(0808)* **< *Excluding the following* >**	All required tests as specified in CNCA-C09-01: 2023	
- Television receiver for use in a vehicle - Apparatus having a picture tube - Apparatus using connection terminals having an open-circuit voltage of 60 V d.c. or above	- Safety tests - EMC tests*	GB 4943.1-2022 GB/T 9254.1-2021 GB 17625.1-2012
- 彩色電視接收機、電視機頂盒 *（0808）* ***〈不包括〉*** - 汽車用電視接收機 - 帶有顯像管的設備 - 帶有直流開路電壓 60 V 或以上連接端子的設備	CNCA-C09-01: 2023 有關規定的所有檢測項目 - 安全檢測項目 - 電磁兼容檢測項目*	GB 4943.1-2022 GB/T 9254.1-2021 GB 17625.1-2012
- Personal computer *(0901)*	All required tests as specified in CNCA-C09-01: 2023	
	- Safety tests	GB 4943.1-2022
	- EMC tests*	GB/T 9254.1-2021 GB 17625.1-2012
- 微型計算機 *（0901）*	CNCA-C09-01: 2023 有關規定的所有檢測項目	
	- 安全檢測項目	GB 4943.1-2022
	- 電磁兼容檢測項目*	GB/T 9254.1-2021 GB 17625.1-2012

* Radiated disturbance measurements are conducted at Workshop No. 3, G/F, World-wide Industrial Centre, 43-47 Shan Mei Street, Fotan, Hong Kong
輻射騷擾測量在香港新界沙田火炭山尾街 43-47 號環球工業中心地下 3 號進行

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司

2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Testing Required by the China Compulsory Certification System (CCC) 中國強制性產品認證制度規定的檢測		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Electronic product and safety accessory 電子產品及安全附件		
- Portable personal computer *(0902)*	All required tests as specified in CNCA-C09-01: 2023	
	- Safety tests	GB 4943.1-2022
	- EMC tests*	GB/T 9254.1-2021 GB 17625.1-2012
- 便攜式計算機（*0902*）	CNCA-C09-01: 2023 有關規定的所有檢測項目	
	- 安全檢測項目	GB 4943.1-2022
	- 電磁兼容檢測項目*	GB/T 9254.1-2021 GB 17625.1-2012
- Display unit for use with a computer *(0903)* ***<Excluding the following>*** - Cathode ray tube display unit	All required tests as specified in CNCA-C09-01: 2023	
	- Safety tests	GB 4943.1-2022
	- EMC tests*	GB/T 9254.1-2021 GB 17625.1-2012
- 與計算機連用的顯示設備（*0903*） ***〈不包括〉*** - 陰極射綫管顯示設備	CNCA-C09-01: 2023 有關規定的所有檢測項目	
	- 安全檢測項目	GB 4943.1-2022
	- 電磁兼容檢測項目*	GB/T 9254.1-2021 GB 17625.1-2012

* Radiated disturbance measurements are conducted at Workshop No. 3, G/F, World-wide Industrial Centre, 43-47 Shan Mei Street, Fotan, Hong Kong
輻射騷擾測量在香港新界沙田火炭山尾街 43-47 號環球工業中心地下 3 號進行

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Testing Required by the China Compulsory Certification System (CCC) 中國強制性產品認證制度規定的檢測

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Electronic product and safety accessory 電子產品及安全附件		
- Printer connected to a computer *(0904)* ***<Excluding the following>*** - Ink-jet printer	All required tests as specified in CNCA-C09-01: 2023	
	- Safety tests	GB 4943.1-2022
	- EMC tests*	GB/T 9254.1-2021 GB 17625.1-2012
- 與計算機相連的打印設備（*0904*） ***〈不包括〉*** - 含液體打印設備	CNCA-C09-01: 2023 有關規定的所有檢測項目	
	- 安全檢測項目	GB 4943.1-2022
	- 電磁兼容檢測項目*	GB/T 9254.1-2021 GB 17625.1-2012
- Multifunction printer/copier *(0905)* ***<Excluding the following>*** - Multiple function printer or copier using ink	All required tests as specified in CNCA-C09-01: 2023	
	- Safety tests	GB 4943.1-2022
	- EMC tests*	GB/T 9254.1-2021 GB 17625.1-2012
- 多用途打印複印機（*0905*） ***〈不包括〉*** - 含液體的多用途打印複印機	CNCA-C09-01: 2023 有關規定的所有檢測項目	
	- 安全檢測項目	GB 4943.1-2022
	- 電磁兼容檢測項目*	GB/T 9254.1-2021 GB 17625.1-2012

* Radiated disturbance measurements are conducted at Workshop No. 3, G/F, World-wide Industrial Centre, 43-47 Shan Mei Street, Fotan, Hong Kong
輻射騷擾測量在香港新界沙田火炭山尾街 43-47 號環球工業中心地下 3 號進行

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Testing Required by the China Compulsory Certification System (CCC) 中國強制性產品認證制度規定的檢測		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Electronic product and safety accessory 電子產品及安全附件		
- Scanner *(0906)*	All required tests as specified in CNCA-C09-01: 2023	
	- Safety tests	GB 4943.1-2022
	- EMC tests*	GB/T 9254.1-2021 GB 17625.1-2012
- 掃描儀（*0906*）	CNCA-C09-01: 2023 有關規定的所有檢測項目	
	- 安全檢測項目	GB 4943.1-2022
	- 電磁兼容檢測項目*	GB/T 9254.1-2021 GB 17625.1-2012
- Server *(0911)*	All required tests as specified in CNCA-C09-01: 2023	
	- Safety tests	GB 4943.1-2022
	- EMC tests*	GB/T 9254.1-2021 GB 17625.1-2012
- 服務器（*0911*）	CNCA-C09-01: 2023 有關規定的所有檢測項目	
	- 安全檢測項目	GB 4943.1-2022
	- 電磁兼容檢測項目*	GB/T 9254.1-2021 GB 17625.1-2012

* Radiated disturbance measurements are conducted at Workshop No. 3, G/F, World-wide Industrial Centre, 43-47 Shan Mei Street, Fotan, Hong Kong
輻射騷擾測量在香港新界沙田火炭山尾街 43-47 號環球工業中心地下 3 號進行

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Testing Required by the China Compulsory Certification System (CCC) 中國強制性產品認證制度規定的檢測

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Electronic product and safety accessory 電子產品及安全附件		
- Power supply 電源		
- Power adapter for audio and video apparatus *(0807)* ***< Excluding the following >***	All required tests as specified in CNCA-C09-01: 2023	
- Apparatus using connection terminals having an open-circuit voltage of 60 V d.c. or above	- Safety tests	GB 4943.1-2022
	- EMC tests*	GB/T 9254.1-2021 GB 17625.1-2012
- 音視頻設備配套的電源適配器 *（0807）* ***〈不包括〉***	CNCA-C09-01: 2023 有關規定的所有檢測項目	
- 帶有直流開路電壓 60 V 或以上連接端子的設備	- 安全檢測項目	GB 4943.1-2022
	- 電磁兼容檢測項目*	GB/T 9254.1-2021 GB 17625.1-2012
- Power adapter for information technology equipment *(0907)*	All required tests as specified in CNCA-C09-01: 2023	
	- Safety tests	GB 4943.1-2022
	- EMC tests*	GB/T 9254.1-2021 GB 17625.1-2012
- 信息技術設備配套的電源適配器 *（0907）*	CNCA-C09-01: 2023 有關規定的所有檢測項目	
	- 安全檢測項目	GB 4943.1-2022
	- 電磁兼容檢測項目*	GB/T 9254.1-2021 GB 17625.1-2012

* Radiated disturbance measurements are conducted at Workshop No. 3, G/F, World-wide Industrial Centre, 43-47 Shan Mei Street, Fotan, Hong Kong
輻射騷擾測量在香港新界沙田火炭山尾街 43-47 號環球工業中心地下 3 號進行

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Testing Required by the China Compulsory Certification System (CCC) 中國強制性產品認證制度規定的檢測		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Electronic product and safety accessory 電子產品及安全附件		
- Power supply (cont'd) 電源(續上)		
- Built-in power supply for a computer or server *(0907)*	All required tests as specified in CNCA-C09-01: 2023	
	- Safety tests	GB 4943.1-2022
	- EMC tests*	GB/T 9254.1-2021 GB 17625.1-2012
- 計算機/服務器內置電源 *(0907)*	CNCA-C09-01: 2023 有關規定的所有檢測項目	
	- 安全檢測項目	GB 4943.1-2022
	- 電磁兼容檢測項目*	GB/T 9254.1-2021 GB 17625.1-2012

* Radiated disturbance measurements are conducted at Workshop No. 3, G/F, World-wide Industrial Centre, 43-47 Shan Mei Street, Fotan, Hong Kong
輻射騷擾測量在香港新界沙田火炭山尾街 43-47 號環球工業中心地下 3 號進行

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Testing Required by the China Compulsory Certification System (CCC) 中國強制性產品認證制度規定的檢測

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Lighting apparatus 照明電器		
- Luminaire *(1001)* 燈具（*1001*）		
- Fixed general purpose luminaire ***<Excluding the following>*** - Luminaire having a degree of protection IP5X, IP6X, IPX1, IPX2, IPX6 or IPX8 - Luminaire having uninsulated accessible SELV parts of opposite polarity - Luminaire designed for using a tungsten halogen lamp or a metal halide lamp - Rough service luminaire - Luminaire having thermal sensing controls	All required tests as specified in CNCA-C10-01: 2014 - Safety tests - EMC tests*	GB 7000.1-2015 GB 7000.201-2008 GB/T 17743-2021 GB 17625.1-2012
- 固定式通用燈具 ***<不包括>*** - 外殼防護等級 IP5X、IP6X、IPX1、IPX2、IPX6 或 IPX8 的燈具 - 帶有極性相反的未絕緣可觸及的特低電壓(SELV)部件的燈具 - 使用鹵鎢燈和金屬鹵化燈的燈具 - 惡劣條件使用的燈具 - 裝有熱傳感控制器的燈具	CNCA-C10-01: 2014 有關規定的所有檢測項目 - 安全檢測項目 - 電磁兼容檢測項目*	GB 7000.1-2015 GB 7000.201-2008 GB/T 17743-2021 GB 17625.1-2012

* Radiated disturbance measurements are conducted at Workshop No. 3, G/F, World-wide Industrial Centre, 43-47 Shan Mei Street, Fotan, Hong Kong
輻射騷擾測量在香港新界沙田火炭山尾街 43-47 號環球工業中心地下 3 號進行

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Testing Required by the China Compulsory Certification System (CCC) 中國強制性產品認證制度規定的檢測

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Lighting apparatus 照明電器		
- Luminaires *(1001)* (cont'd) 燈具（*1001*）（續上）		
- Portable general purpose luminaire ***<Excluding the following>*** - Luminaire having a degree of protection IP5X, IP6X, IPX1, IPX2, IPX6 or IPX8 - Luminaire having uninsulated accessible SELV parts of opposite polarity - Luminaire designed for using a tungsten halogen lamp or a metal halide lamp - Rough service luminaire - Luminaire having thermal sensing controls	All required tests as specified in CNCA-C10-01: 2014 - Safety tests - EMC tests*	GB 7000.1-2015 GB 7000.204-2008 GB/T 17743-2021 GB 17625.1-2012
- 可移式通用燈具 ***<不包括>*** - 外殼防護等級 IP5X, IP6X, IPX1, IPX2, IPX6 及 IPX8 的燈具 - 有極性相反的未絕緣可觸及的安全特低電壓(SELV)部件的燈具 - 使用鹵鎢燈和金屬鹵化燈的燈具 - 惡劣條件使用的燈具 - 使用熱傳感控制器的燈具	CNCA-C10-01: 2014 有關規定的所有檢測項目 - 安全檢測項目 - 電磁兼容檢測項目*	GB 7000.1-2015 GB 7000.204-2008 GB/T 17743-2021 GB 17625.1-2012

* Radiated disturbance measurements are conducted at Workshop No. 3, G/F, World-wide Industrial Centre, 43-47 Shan Mei Street, Fotan, Hong Kong
輻射騷擾測量在香港新界沙田火炭山尾街 43-47 號環球工業中心地下 3 號進行

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Testing Required by the China Compulsory Certification System (CCC) 中國強制性產品認證制度規定的檢測		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Toys and children's products 兒童用品		
- Children ride-on cars *(2201)* - 童車類產品 *(2201)*		
- Child tricycle	All required tests as specified in CNCA-C22-01: 2020	GB 14747-2006*
- 兒童三輪車	CNCA-C22-01-2020 有關規定的所有檢測	GB 14747-2006*
- Wheeled child conveyance ***<Excluding the following>*** - Conveyances with exposed metal surface	All required tests as specified in CNCA-C22-01: 2020	GB 14748-2006*
- 兒童推車 ***<不包括>*** - 有暴露金屬表面的推車	CNCA-C22-01: 2020 有關規定的所有檢測	GB 14748-2006*
- Baby walking frame ***<Excluding the following>*** - Walking frames with exposed metal surface	All required tests as specified in CNCA-C22-01: 2020	GB 14749-2006*
- 嬰兒學步車 ***<不包括>*** - 有暴露金屬表面的學步車	CNCA-C22-01: 2020 有關規定的所有檢測	GB 14749-2006*

* Physical and mechanical tests are carried out at Unit 7-10, Ground Floor, Trans Asia Centre, 18 Kin Hong Street, Kwai Chung, New Territories, Hong Kong.
機械及物理性能測試在香港新界葵涌健康街 18 號恆亞中心地下 7-10 號單位進行。

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Testing Required by the China Compulsory Certification System (CCC) 中國強制性產品認證制度規定的檢測		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Toys and children's products 兒童用品 - Toy *(2202)* - 玩具*(2202)*		
- Toys bicycle	All required tests as specified in CNCA-C22-02: 2020	GB 6675.1-2014 GB 6675.2-2014 + Amendment No. 1 GB 6675.3-2014 GB 6675.4-2014
- 玩具自行車	CNCA-C22-02: 2020 有關規定的所有檢測	GB 6675.1-2014 GB 6675.2-2014 + 第一號修改單 GB 6675.3-2014 GB 6675.4-2014
- Electric children ride-on car	All required tests as specified in CNCA-C22-02: 2020	GB 6675.1-2014 GB 6675.2-2014 + Amendment No. 1 GB 6675.3-2014 GB 6675.4-2014 GB 19865-2005 + Amendment No. 1
- 電動童車	CNCA-C22-02: 2020 有關規定的所有檢測	GB 6675.1-2014 GB 6675.2-2014 + 第一號修改單 GB 6675.3-2014 GB 6675.4-2014 GB 19865-2005 + 第一號修改單
- Other toys car	All required tests as specified in CNCA-C22-02: 2020	GB 6675.1-2014 GB 6675.2-2014 + Amendment No. 1 GB 6675.3-2014 GB 6675.4-2014
- 其他玩具車輛	CNCA-C22-02: 2020 有關規定的所有檢測	GB 6675.1-2014 GB 6675.2-2014 + 第一號修改單 GB 6675.3-2014 GB 6675.4-2014

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Testing Required by the China Compulsory Certification System (CCC) 中國強制性產品認證制度規定的檢測

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Toys and children's products 兒童用品		
- Toy *(2202)* (cont'd) - 玩具*(2202)* (續上)		
- Electric toy ***<Excluding the following>*** - toys containing gas or liquid - imitation weapon toy - chemical toy - cosmetic toy - toys with direct food contact - percussion cap	All required tests as specified in CNCA-C22-02: 2020	GB 6675.1-2014 GB 6675.2-2014 + Amendment No. 1 GB 6675.3-2014 GB 6675.4-2014 GB 19865-2005 + Amendment No. 1
- 電玩具類產品 ***<不包括>*** - 含氣體或液體玩具 - 仿真武器玩具 - 化學遊戲玩具 - 玩具化妝品 - 與食品直接接觸的玩具 - 玩具火藥帽	CNCA-C22-02: 2020 有關規定的所有檢測	GB 6675.1-2014 GB 6675.2-2014 + 第一號修改單 GB 6675.3-2014 GB 6675.4-2014 GB 19865-2005 + 第一號修改單

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Testing Required by the China Compulsory Certification System (CCC) 中國強制性產品認證制度規定的檢測

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Toys and children's products 兒童用品		
- Toy *(2202)* (cont'd) - 玩具*(2202)* (續上)		
- Plastic toy ***<Excluding the following>*** - toys containing gas or liquid - imitation weapon toy - chemical toy - cosmetic toy - toys with direct food contact - percussion cap	All required tests as specified in CNCA-C22-02: 2020	GB 6675.1-2014 GB 6675.2-2014 + Amendment No. 1 GB 6675.3-2014 GB 6675.4-2014
- 塑膠玩具類產品 ***<不包括>*** - 含氣體或液體玩具 - 仿真武器玩具 - 化學遊戲玩具 - 玩具化妝品 - 與食品直接接觸的玩具 - 玩具火藥帽	CNCA-C22-02: 2020 有關規定的所有檢測	GB 6675.1-2014 GB 6675.2-2014 + 第一號修改單 GB 6675.3-2014 GB 6675.4-2014
- Metal toys ***<Excluding the following>*** - toys containing gas or liquid - imitation weapon toy - chemical toy - cosmetic toy - toys with direct food contact - percussion cap	All required tests as specified in CNCA-C22-02: 2020	GB 6675.1-2014 GB 6675.2-2014 + Amendment No. 1 GB 6675.3-2014 GB 6675.4-2014
- 金屬玩具類產品 ***<不包括>*** - 含氣體或液體玩具 - 仿真武器玩具 - 化學遊戲玩具 - 玩具化妝品 - 與食品直接接觸的玩具 - 玩具火藥帽	CNCA-C22-02: 2020 有關規定的所有檢測	GB 6675.1-2014 GB 6675.2-2014 + 第一號修改單 GB 6675.3-2014 GB 6675.4-2014

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Chemical Testing 化學測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Liquid paint, PVC/plastics, surface coating & metals	Cadmium	Regulation (EC) No. 1907/2006 on REACH Annex XVII (Cadmium) as amended by Commission Regulation (EU) No. 835/2012 and Commission Regulation (EU) 2016/217 *Compliance test procedures for cadmium content:-* In House Method TC008.TP

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Chinese Medicine 中藥		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Proprietary Chinese Medicines	Microbiological examinations : -	
	Microbial Limit Test 微生物限度檢查法:	Pharmacopoeia of the People's Republic of China 2000, Volume I, App. XIIIC and supplement 2002 中華人民共和國藥典 2000 年版一部附錄 XIIIC 及 2002 年增補本
	Aerobic bacteria count 細菌數	(Pour Plate Method) or (Dilution Plating Method)
	Mold and Yeast count 霉菌與酵母菌數	(Pour Plate Method) or (Dilution Plating Method)
	E. coli 大腸桿菌	(Isolation and Identification)
	Salmonella species 沙門菌	(Isolation and Identification)
	Pseudomonas aeruginosa 銅綠假單胞菌	(Isolation and Identification)
	Staphylococcus aureus 金黃色葡萄球菌	(Isolation and Identification)

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	EMC tests :- Emission tests	
Consumer ISM equipment	- Measurement of terminal disturbance voltages - 9 kHz to 30 MHz	AS/NZS CISPR 11: 2011 CISPR 11: 2009 + A1: 2010 EN 55011: 2009 + A1: 2010
	- Measurement of terminal disturbance voltages - 9 kHz to 30 MHz	AS CISPR 11:2017 + A1: 2020 CISPR 11: 2015 + A1: 2016 + A2: 2019 EN 55011: 2016 + A1: 2017 + A11: 2020

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Electrical and Electronic Products 電氣及電子產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Product performance tests :- 產品性能測試	
Audio, video and related equipment 影音設備		
- Television set, video recording equipment, set top box, audio equipment and multi-function equipment for consumer use	- Measurement of electrical power consumption in standby mode	IEC 62301: 2011 EN 50564: 2011 (Note: The above two standards should be used in conjunction with the test method standards as detailed in IEC 62087 or EN 62087)
	- Measurement of power consumption	IEC 62087-1: 2015 IEC 62087-3: 2023
- Computer monitors	- Measurement of electrical power - Measurement of energy efficiency	GB 21520-2015
- 計算機顯示器	- 功率測量 - 能源效率測量	GB 21520-2015

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Lamp and light fitting	Product performance tests :-	
- Compact fluorescent lamp (for bulb diameter up to 165 mm and lamp power up to 100 W)	- Luminous flux - Colour temperature - Colour rendering index	IES LM-66-14
- Compact fluorescent lamp (for bulb diameter up to 165 mm and lamp power up to 100 W) - Fluorescent tube (for length of tube up to 813 mm) - Halogen lamp - Tungsten lamp (for lamp power up to 500 W) - Disc shape light fittings c/w tungsten lamp or halogen lamp (for disc diameter up to 350 mm and lamp power up to 500 W) - Emergency light fittings c/w fluorescent tube (for length of fitting up to 500 mm and lamp power up to 200 W)	- Luminous flux	CIE 84: 1989 Cl. 6
- Reflector lamp	- Centre beam intensity - Beam angle	IEC 61341: 2010
- Self-ballasted lamp (for bulb diameter up to165 mm and lamp power up to 60 W)	- Luminous flux measurement - Starting time - Run-up time - Lamp dimensions - Colour requirements - Lumen maintenance - Lamp life test	EN 60969: 1993 + A1: 1993 + A2: 2000 IEC 60969: 1988 + A1: 1991 + A2: 2000

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Safety tests :- 安全檢測項目	
Audio, video and similar electronic apparatus	- Compliance inspection and safety tests	IEC 60065: 2014 **< *Excluding the following* >** Cl. 4.2.9, 4.3.13, 6.1, 6.3 (test to IEC 62471) 9.1.1.2c) (charge measurement above 200V) and 18 IEC 62368-1: 2018 **< *Excluding the following* >** Cl. 8.5.5, 10.5, Annexes C, G.9, G.13.3, G.13.5, G.13.6, G.14, G.15, G.16 J, R, S, U and Y
Audio, video and similar electronic apparatus	- Compliance inspection and safety tests	GB 4943.1: 2022 **< *Excluding the following* >** Cl. 8.5.5, 10.5, Annexes C, G.9, G.13.3, G.13.5, G.13.6, G.14, G.15, G.16 J, R, S, U and Y
音頻、視頻及類似電子設備	- 合規性檢查和安全檢測項目	GB 4943.1: 2022 ***〈不包括〉*** Cl. 8.5.5, 10.5, 附錄 C, G.9, G.13.3, G.13.5, G.13.6, G.14, G.15, G.16 J, R, S, U 及 Y

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Safety tests :-	
Concumer products containing button cell or coin batteries	- Compliance inspection and safety tests	16 CFR Part 1263 in conjunction with ANSI/UL 4200A-2023 ANSI/UL 4200A-2023

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Electrical and Electronic Products 電氣及電子產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Electric cable	Safety tests :-	
- Light duty PVC insulated flexible cable of rated voltage up to300/500V with following number and cross-sectional area of conductors: - 2 x 1.0mm^2 to 1.5mm^2 - 3 x 1.0mm^2 to 1.5mm^2	- Compliance inspection and safety tests	BS EN 50525-2-11: 2011* in conjunction with BS EN 50525-1: 2011 + A1: 2022 EN 50525-2-11: 2011* in conjunction with EN 50525-1: 2011 + A1: 2022 IEC 60227-5: 2011* in conjunction with IEC 60227-1: 2007 and IEC 60227-2: 1997 + A1: 2003
- General purpose ordinary duty rubber insulated flexible cable of rated voltage up to 450/750V with following number and cross-sectional area of conductors: - 2 x 1.0mm^2 to 1.5mm^2 - 3 x 1.0mm^2 to 1.5mm^2	- Compliance inspection and safety tests	BS EN 50525-2-21: 2011 in conjunction with BS EN 50525-1: 2011 + A1: 2022 EN 50525-2-21: 2011 in conjunction with EN 50525-1: 2011 + A1: 2022 **< *Excluding the following* >** for the above four standards Ageing treatment in oxygen bomb

* Flexing test of cable is conducted at Unit A, 9/F, Hang Cheong Factory Building, 1 Wing Ming Street, Kowloon, Hong Kong

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Electrical accessory	Safety tests :-	
- 10A 250V plug	- Compliance inspection and safety tests	AS/NZS 3112: 2017 + A1: 2021 < ***Excluding the following*** > Cl. 2.13.10
- 10A 250V socket outlet	- Compliance inspection and safety tests	AS/NZS 3112: 2017 + A1: 2021 < ***Excluding the following*** > Cl. 2.13.10
- 10A 250V socket-outlet adaptor	- Compliance inspection and safety tests	AS/NZS 3122: 2021
- 10A 250V electrical portable outlet device without lampholder	- Compliance inspection and safety tests	AS/NZS 3105: 2014 + A1: 2017
- 10A 250V cord extension socket	- Compliance inspection and safety tests	AS/NZS 3120: 2011 + A1: 2012 <***Excluding the following***> Section 3 (inlet plug to AS 60320.1)
- 10A 250V portable electrical control or conditioning device without lampholder and thermostat	- Compliance inspection and safety tests	AS/NZS 3197: 2005 + A1: 2007 + A2: 2012

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Electrical accessory (cont'd)	Safety tests :-	
- Rewirable and non-rewirable 13 A fused plug	- Compliance inspection and safety tests	BS 1363-1: 2016 + A1: 2018 MS 589-1: 2018 SS 145: Part 1: 2019
- 13A switched and unswitched socket outlet	- Compliance inspection and safety tests	BS 1363-2: 2016 + A1: 2018 SS 145: Part 2: 2018 MS 589-2: 2018 < ***Excluding the following*** > for the above three standards Cl. 14.3 (tests for IP5X, IP6X, IPX1, IPX2, IPX6 and IPX8)
- Adaptors for use with 13A socket outlet	- Compliance inspection and safety tests	BS 1363-3: 2016 + A1: 2018 MS 589-3: 2018 SS 145: Part 3: 2020
- 13A fused connection unit	- Compliance inspection and safety tests	BS 1363-4: 2016 + A1: 2018 < ***Excluding the following*** > Cl. 14.3 (tests for IP5X, IP6X, IPX1, IPX2, IPX6 and IPX8) SS 403: 2013 SS 145: Part 4: 2022 < ***Excluding the following*** > Cl. 14.3 (tests for IP5X, IP6X, IPX1, IPX2, IPX6 and IPX8)
- 13A fused conversion plug	- Compliance inspection and safety tests	BS 1363-5: 2016

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Electrical accessory (cont'd)	Safety tests :-	
- 5A and 15A three-pin plug, socket outlet and socket outlet adaptor	- Compliance inspection and safety tests	BS 546: 1950 with PD1752, PD4389, AMD251, AMD2307, AMD4045, AMD5809, AMD6144 and AMD8914 < ***Excluding the following*** > Testing of materials to Cl. 12 is conducted according to in-house methods TM000546-009 to TM000546-011;
- 15A three-pin plug and socket outlet	- Compliance inspection and safety tests	MS 1577: 2003
- 15A three-pin plug and switched socket outlet	- Compliance inspection and safety tests	SS 472: 1999 + A1: 2020
- Electrical wiring accessory	- Compliance inspection and safety tests	BS 5733: 2010 + A1: 2014 < ***Excluding the following*** > Cl. 13.4 MS 1144: 2017 < ***Excluding the following*** > Cl. 13.4
- Travel adaptor compatible with UK plug and socket system	- Compliance inspection and safety tests	BS 8546: 2016
- Bayonet lampholder to B22 specification	- Compliance inspection and safety tests	BS EN 61184: 2017 + A1: 2019 EN 61184: 2017 + A1: 2022 IEC 61184: 2017 + A1: 2019

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Electrical accessory (cont'd)	Safety tests :-	
- Portable cable reel	- Compliance inspection and safety tests	BS EN 61242: 1997 + A1: 2008 + A2: 2016 EN 61242: 1997 + A1: 2008 + A2: 2016 IEC 61242: 1995 + A1: 2008 + A2: 2015 MS 1141: 2006 SS 307: 1996 **< *Excluding the following* >** for the above five standards Cl. 18.3.2, 18.3.3, 23.5 (chemical analysis of current-carrying parts)
- Cooker control unit	- Compliance inspection and safety tests	BS 4177: 1992 + A1: 1993 + A2: 1997 + A3: 2004 + A4: 2007 **<*Excluding the following*>** Cl. 8.2 & 12.12
- 1 gang & 2 gang box for flush mounting of an electrical accessory	- Compliance inspection and safety tests	BS 4662: 2006 + A1: 2009
- Box and enclosure for electrical accessory for household and similar fixed electrical installation	- Compliance inspection and safety tests	BS EN IEC 60670-1: 2021 + A11: 2021 EN IEC 60670-1: 2021 + A11: 2021
- Box and enclosure for electrical accessory for household and similar fixed electrical installation	- Compliance inspection and safety tests	GB 17466.1-2008
- 家用和類似用途固定式電氣裝置電器附件安裝盒和外殼	- 合規性檢查和安全檢測項目	GB 17466.1-2008

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Safety tests :-	
Household appliance, luminaire and power transformer	- Tests for degrees of protection provided by enclosures of equipment against access to hazardous parts, against ingress of foreign objects and against ingress of water (IP code)	BS EN 60529: 1992 with AMD7643 and AMD10931 EN 60529: 1991 + A1: 2000 IEC 60529: 1989 + A1: 1999 **< *Excluding the following* >** for the above three standards Cl. 14 (tests for IP5X, IP6X, IPX1, IPX2, IPX6 and IPX8) (Note: The above three standards should be used in conjunction with the relevant product test standards as detailed in BS EN 60335, EN 60335, IEC 60335, BS EN 60598, EN 60598, IEC 60598, BS EN 61558, EN 61558 and IEC 61558.)

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Household and similar electrical appliance	Safety tests :-	
- Electrical appliance with rated voltage not more than 250 V for single phase appliance and 480 V for other appliance	- Compliance inspection and safety tests	AS/NZS 60335.1: 2011 + A1: 2012 + A2: 2014 + A3: 2015 EN 60335-1: 2012 + A11: 2014 IEC 60335-1: 2010 + A1: 2013 **< *Excluding the following* >** for the above three standards Cl. 15.1 (tests for IPX1, IPX2, IPX6 and IPX8), 22.1 (tests for IP5X, IP6X), 22.32 (oxygen bomb test) and 22.46 (Note: The above standards should be used in conjunction with the product test standards as detailed in relevant Part 2 of AS/NZS 60335, BS EN 60335, EN 60335 or IEC 60335.)
- Appliance for heating liquids (with rated voltage not more than 250 V)	- Compliance inspection and safety tests	IEC 60335-2-15: 2012 **< *Excluding the following* >** Cl. 15.1 (tests for IPX1, IPX2, IPX6 and IPX8), 19.4 (pressure cooker), 22.1 (tests for IP5X, IP6X), 22.7 (pressure cooker), 22.32 (oxygen bomb test), 22.46 and 22.108 (pressure cooker)
- Appliance for skin or hair care (with rated voltage not more than 250 V)	- Compliance inspection and safety tests	IEC 60335-2-23: 2003 + A1: 2008 + A2: 2012 **< *Excluding the following* >** Cl. 15.1 (tests for IPX1, IPX2, IPX6 and IPX8), 19.2 (heater for detachable curler), 22.1 (tests for IP5X, IP6X), 22.32 (oxygen bomb test) and 22.46
- Battery charger (with rated voltage not more than 250V and input power up to 1 kW)	- Compliance inspection and safety tests	AS/NZS 60335.2.29: 2004 + A1: 2004+ A2: 2010 BS EN 60335-2-29: 2004 + AMD 15663 + AMD 15769 + A2: 2010 EN 60335-2-29: 2004 + A2: 2010 IEC 60335-2-29: 2002 +A1: 2004 + A2: 2009 **< *Excluding the following* >** for the above four standards Cl. 15.1 (tests for IPX1, IPX2, IPX6 and IPX8), 22.1 (tests for IP5X, IP6X), 22.32 (oxygen bomb test) and 22.46

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Household and similar electrical appliance (cont'd)	Safety tests :-	
- Electric iron, including those with a separate water reservoir or boiler having a capacity not exceeding 5l (with rated voltage not more than 250V)	- Compliance inspection and safety tests	IEC 60335-2-3: 2012 **<*Excluding the following*>** Cl. 15.1 (tests for IPX1, IPX2, IPX6 and IPX8), 22.1 (tests for IP5X, IP6X), 22.32 (oxygen bomb test) and 22.46
- Fan (with rated voltage not more than250 V for single-phase appliances and 480V for other appliances)	- Compliance inspection and safety tests	IEC 60335-2-80: 2002 + A1: 2004 + A2: 2008 **< *Excluding the following* >** Cl. 15.1 (tests for IPX1, IPX2, IPX6 and IPX8), 22.1 (tests for IP5X, IP6X), 22.32 (oxygen bomb test) and 22.46
- Grill, toaster and similar portable cooking appliance (with rated voltage not more than 250 V)	- Compliance inspection and safety tests	IEC 60335-2-9: 2008 + A1: 2012 **< *Excluding the following* >** Cl. 15.1 (tests for IPX1, IPX2, IPX6 and IPX8), 22.1 (tests for IP5X, IP6X), 22.32 (oxygen bomb test) and 22.46
- Kitchen machine (with rated voltage not more than 250 V)	- Compliance inspection and safety tests	IEC 60335-2-14: 2006 + A1: 2008 + A2: 2012 **< *Excluding the following* >** Cl. 11.7.110, 15.1 (tests for IPX1, IPX2, IPX6 and IPX8), 20.101 (hand-held food mixer), 22.1 (tests for IP5X, IP6X), 22.32 (oxygen bomb test) and 22.46

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Household and similar electrical appliance (cont'd)	Safety tests :-	
- Range hood and other cooking fume extractor (with rated voltage not more than 250V)	- Compliance inspection and safety tests	EN 60335-2-31: 2003 + A1: 2006 + A2: 2009 IEC 60335-2-31: 2002 + A1: 2006 + A2: 2008 **< *Excluding the following* >** for the above two standards Cl. 15.1 (tests for IPX1, IPX2, IPX6 and IPX8), 22.1 (tests for IP5X, IP6X), 22.32 (oxygen bomb test), 22.46 and 30.101 (test to ISO 9772) IEC 60335-2-31: 2012 **< *Excluding the following* >** Cl. 15.1 (tests for IPX1, IPX2, IPX6 and IPX8), 22.1 (tests for IP5X, IP6X), 22.32 (oxygen bomb test), 22.46 and 30.101 (test to ISO 9772)
- Room heater (with rated voltage not more than250 V for single-phase appliance and 480 V for other appliance)	- Compliance inspection and safety tests	IEC 60335-2-30: 2009 **<*Excluding the following*>** Cl. 15.1 (tests for IPX1, IPX2, IPX6 and IPX8), 22.1 (tests for IP5X, IP6X), 22.32 (oxygen bomb test) and 22.46
- Spin extractor (with rated voltage not more than 250V for single-phase appliances)	- Compliance inspection and safety tests	AS/NZS 60335.2.4: 2010 + A1: 2010 EN 60335-2-4: 2010 IEC 60335-2-4: 2008 + A1: 2012 **< *Excluding the following* >** for the above three standards Cl. 15.1 (tests for IPX1, IPX2, IPX6 and IPX8), 22.1 (tests for IP5X, IP6X), 22.32 (oxygen bomb test) and 22.46

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Household and similar electrical appliance (cont'd)	Safety tests :-	
- Tumble dryer (with rated voltage not more than 250V for single-phase appliance)	- Compliance inspection and safety tests	AS/NZS 60335.2.11: 2009 + A1: 2010 + A2: 2014 EN 60335-2-11: 2010 + A11: 2012 IEC 60335-2-11: 2008 + A1: 2012 < ***Excluding the following*** > for the above three standards Cl. 15.1 (tests for IPX1, IPX2, IPX6 and IPX8), 22.1 (tests for IP5X, IP6X), 22.32 (oxygen bomb test) and 22.46
- Washing machine (with rated voltage not more than 250V for single-phase appliance)	- Compliance inspection and safety tests	AS/NZS 60335.2.7: 2012 EN 60335-2-7: 2010 + A1: 2013 + A11: 2013 IEC 60335-2-7: 2008 + A1: 2011 < ***Excluding the following*** > for the above three standards Cl. 15.1 (tests for IPX1, IPX2, IPX6 and IPX8), 22.1 (tests for IP5X, IP6X), 22.6 (aging test), 22.32 (oxygen bomb test) and 22.46

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Safety tests :-	
Information technology equipment **<*Excluding the following*>** - Three-phase equipment - DC mains supply	- Compliance inspection and safety tests	AS/NZS 60950.1: 2015 BS EN 60950-1: 2006 + A11: 2009 + A1: 2010 + A12: 2011 + A2: 2013 EN 60950-1: 2006 + A11: 2009 + A1: 2010 + A12: 2011 + A2: 2013 IEC 60950-1: 2005 + A1: 2009 + A2: 2013 **< *Excluding the following* >** for the above four standards 4.2.8, 4.3.12, 4.3.13.2, 4.3.13.3, 4.3.13.4, 4.6.2 (test to Cl. A.3), A.3

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Electrical and Electronic Products 電氣及電子產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Safety tests :- 安全測試:-	
Laser product	- Determination of laser class (Class 1, 1M, 2, 2M, 3R and 3B) - Labelling - Other information requirements	IEC 60825-1: 1993 + A1: 1997 + A2: 2001 Cl. 5, 6, 8 and 9 IEC 60825-1: 2007 Cl. 5, 6, 8 and 9 EN 60825-1: 2007 Cl. 5, 6, 8 and 9 BS EN 60825-1: 2007 Cl. 5, 6, 8 and 9
	- Determination of laser class (Class 1, 1M, 1C, 2, 2M, 3R and 3B) - Labelling - Other information requirements	IEC 60825-1: 2014 Cl. 4, 5, 7 and 8
激光產品	- 確定激光器分類 （1, 2, 3A 及 3B 類） - 標記 - 其他說明性要求	GB 7247.1-2001 Cl. 5, 6, 8 and 9

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Luminaire	Safety tests :-	
- Luminaire up to 100W	- Compliance inspection and safety tests	EN IEC 60598-1: 2021: + A11: 2022 IEC 60598-1: 2020 **< *Excluding the following* >** for the above two standards Cl. 4.13.4, 4.20, 4.24, 4.26, 4.28, 4.34, 4.35, 4.36, 9.2 (tests for IP5X, IP6X, IPX1, IPX2, IPX6, IPX8 and IPX9) (Note: The above standard should be used in conjunction with the product test standards as detailed in relevant Part 2 of IEC 60598.)
- Fixed general purpose luminaire up to 100 W	- Compliance inspection and safety tests	EN IEC 60598-2-1: 2021 IEC 60598-2-1: 2020 **< *Excluding the following* >** for the above two standards Cl. 4.13.4, 4.20, 4.24, 4.26, 4.28, 4.34, 4.35, 4.36, 9.2 (tests for IP5X, IP6X, IPX1, IPX2, IPX6, IPX8 and IPX9)
- Floodlight up to 100 W	- Compliance inspection and safety tests	BS EN 60598-2-5: 1998 EN 60598-2-5: 1998 IEC 60598-2-5: 1998 **< *Excluding the following* >** for the above three standards Cl. 5.6 (tests to Cl. 4.13.4, 4.20, 4.24, 4.26 of Part 1) and 5.13 (tests for IP5X, IP6X, IPX1, IPX2, IPX6, IPX8 and IPX9)
- Luminaire with built-in transformer for filament lamp up to 100W	- Compliance inspection and safety tests	BS EN 60598-2-6: 1995 with AMD 9553 EN 60598-2-6: 1994 + A1: 1997 IEC 60598-2-6: 1994 + A1: 1996 **< *Excluding the following* >** for the above three standards Cl. 6.6 (tests to Cl. 4.13.4, 4.20, 4.24, 4.26 of Part 1) and 6.13 (tests for IP5X, IP6X, IPX1, IPX2 IPX6, IPX8 and IPX9)

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Luminaire (cont'd)	Safety tests :-	
- Lighting chain	- Compliance inspection and safety tests	BS EN 60598-2-20: 2015 EN 60598-2-20: 2015 < ***Excluding the following*** > for the above two standards Cl. 4.13.4, 4.20, 4.24, 4.26, 4.28, 4.34, 4.35, 4.36, 9.2 (tests for IP5X, IP6X, IPX1, IPX2, IPX6, IPX8 and IPX9) IEC 60598-2-20: 2022 < ***Excluding the following*** > Cl. 4.13.4, 4.20, 4.24, 4.26, 4.28, 4.34, 4.35, 4.36, 9.2 (tests for IP5X, IP6X, IPX1, IPX2, IPX6, IPX8 and IPX9)
- Portable general purpose luminaire up to 100 W	- Compliance inspection and safety tests	BS EN 60598-2-4: 2018 EN 60598-2-4: 2018 IEC 60598-2-4: 2017 < ***Excluding the following*** > for the above three standards Cl. 4.13.4, 4.20, 4.24, 4.26, 4.28, 4.34, 4.35, 4.36, 9.2 (tests for IP5X, IP6X, IPX1, IPX2, IPX6, IPX8 and IPX9)
- Portable luminaire for garden use up to 100 W	- Compliance inspection and safety tests	BS EN 60598-2-7: 1997 with AMD 8487, AMD 8724, AMD 9424, AMD 9623 and AMD 10563 EN 60598-2-7: 1989 + A11: 1994 + A12: 1995 + A2: 1996 + A13: 1997 IEC 60598-2-7: 1982 + A1: 1987 + A2: 1994 < ***Excluding the following*** > for the above three standards Cl. 7.6 (tests to Cl. 4.13.4, 4.20, 4.24, 4.26 of Part 1) and 7.13 (tests for IP5X, IP6X, IPX1, IPX2, IPX6, IPX8 and IPX9)

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Power transformer and power supply unit	Safety tests :-	
- Power transformer and power supply unit	- Compliance inspection and safety tests	AS/NZS 61558.1:2008 + A1: 2009 + A2: 2015 BS EN 61558-1: 2005 + A1: 2009 EN 61558-1: 2005 + Corr. 1 + A1: 2009 IEC 61558-1: 2005 + A1: 2009 < ***Excluding the following*** > for the above four standards Cl. 9.1.1.2.2, 17.1.1 (tests for IP5X, IP6X. IPX1, IPX2, IPX6, IPX8), 19.9 (oxygen bomb test); Annex K (Note: The above three standards should be used in conjunction with the product test standards as detailed in relevant Part 2 of AS/NZS 61558, BS EN 61558, EN 61558 or IEC 61558.)
- Bell and chime transformer	- Compliance inspection and safety tests	AS/NZS 61558.2.8: 2011+ A1: 2012 BS EN 61558-2-8: 2010 EN 61558-2-8: 2010 IEC 61558-2-8: 2010 < ***Excluding the following*** > for the above four standards Cl. 9.1.1.2.2, 17.1.1 (tests for IP5X, IP6X. IPX1, IPX2, IPX6, IPX8), 19.9 (oxygen bomb test); Annex K
- Safety isolating transformer for general use	- Compliance inspection and safety tests	AS/NZS 61558.2.6: 2009 + A1: 2012 BS EN 61558-2-6: 2009 EN 61558-2-6: 2009 IEC 61558-2-6: 2009 < ***Excluding the following*** > for the above four standards Cl. 9.1.1.2.2, 17.1.1 (tests for IP5X, IP6X. IPX1, IPX2, IPX6, IPX8), 19.9 (oxygen bomb test); Annex K

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Power transformer and power supply unit (cont'd)	Safety tests :-	
- Shaver transformer and shaver supply unit	- Compliance inspection and safety tests	BS EN 61558-2-5: 2010 EN 61558-2-5: 2010 IEC 61558-2-5: 2010 **< *Excluding the following* >** for the above three standards Cl. 9.1.1.2.2, 17.1.1 (tests for IP5X, IP6X. IPX1, IPX2, IPX6, IPX8), 19.9 (oxygen bomb test); Annex K
- Transformer for switch mode power supply	- Compliance inspection and safety tests	AS/NZS 61558.2.16: 2010 + A1: 2010 + A2: 2010 + A3: 2014 BS EN 61558-2-16: 2009 + A1: 2013 EN 61558-2-16: 2009 + A1: 2013 IEC 61558-2-16: 2009 + A1: 2013 **< *Excluding the following* >** for the above four standards Cl. 9.1.1.2.2, 17.1.1 (tests for IP5X, IP6X. IPX1, IPX2, IPX6, IPX8), 18.102, 19.9 (oxygen bomb test), 26.102 (Cl. 7 of IEC 60664-4 High-frequency testing) and 26.106; Annex K
- Transformer for toy	- Compliance inspection and safety tests	AS/NZS 61558.2.7: 2008 + A1: 2012 BS EN 61558-2-7: 2007 EN 61558-2-7: 2007 IEC 61558-2-7: 2007 **< *Excluding the following* >** for the above four standards Cl. 9.1.1.2.2, 17.1.1 (tests for IP5X, IP6X. IPX1, IPX2, IPX6, IPX8), 19.9 (oxygen bomb test); Annex K

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Telecommunications equipment tests :-	
Fixed telecommunications network equipment		
- Analogue loop start terminal equipment connected to a telephone network ***<Excluding the following>*** - 4 Wire devices	- Connection of terminal equipment to the telephone network	47 CFR Part 68 Subpart D
	- Hearing aid compatibility - Additional limitations	68.316 and 68.317 68.318
	- Technical requirement for connection of terminal equipment to the telephone network	TIA-968-B with errata. in conjunction with TSB-31-C TIA-968-B -1 TIA-968-B -2 TIA-968-B -3
	- Technical requirements for connection of terminal equipment to the telephone network	PTC 200: 2006 < ***Excluding the following*** > 6.12
	- Requirements for analogue terminal equipment and terminal system	CS-03 Part I Issue 9 Amdt 5
	- Requirements and test methods for magnetic output from handset telephones for hearing aid coupling	CS-03 Part V Issue 9 Amdt 3
	- Mandatory analogue interworking and non-interference requirements for customer equipment for connection to the public switched telephone network	AS/CA S002: 2010 + Amdt 1: 2012 < ***Excluding the following*** > 5.1.7.2, 5.1.7.3, 5.2.2.2, 5.3.2.1, 5.3.3, 5.3.4, 5.7
- Analogue loop start terminal equipment connected to a telephone network and Voice over Internet Protocol (VoIP) equipment with handset acoustic interface	- Voice frequency performance requirements for customer equipment	AS/CA S004: 2013 < ***Excluding the following*** > 5.3, 5.4.1.4, 5.4.2, 5.4.3.3.3, 5.4.3.4.3, 5.4.3.5, 5.5
	- Requirements and test methods for magnetic output from handset telephones for hearing aid coupling	CS-03 Part V Issue 9 Amdt 3

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Fixed telecommunications network equipment (cont'd)	Telecommunications equipment tests :-	
- xDSL terminal equipment connected to a telephone network	- Technical requirement for connection of terminal equipment to the telephone network	TIA-968-B with errata. in conjunction with TSB-31-C TIA-968-B -1 TIA-968-B -2 TIA-968-B -3
	- Requirements and tests methods for digital subscriber line (xDSL) terminal equipment	CS-03 Part VIII Issue 9 Amd. 4
- Network connection specification for connection of Customer Premises Equipment (CPE) to Direct Exchange Lines (DEL) of the Public Switched Telephone Network (PSTN) in Hong Kong	- Test of customer premises equipment to be connected to direct exchange lines of the public switched telephone network in Hong Kong	HKCA 2011 Issue 6 (2010)

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Microbial indicators :-	
Potable Water	Total Coliform counts	APHA 24e 9222 B (Membrane Filtration Method)
	Fecal Coliform count	APHA 24e 9222 D (Membrane Filtration Method)
	E. coli count	APHA 24e 9222 D & G (Membrane Filtration Method followed by *E. coli* Partition Method) DoE (1983) Bacteriological & Examination of Drinking Water Supplies 1982, Sections 7.8 & 7.9, (Membrane Filtration Procedure: Section 7.8, 7.9.4.1 & 7.9.4.2; Bacterial Confirmation: in-situ urease test) The microbiology of water 1994 Part 1 - drinking water, Report on Public Health and Medical Subjects No. 71 (Membrane Filtration Procedure: Section 7.7.4 & 7.7.5, Bacterial Confirmation: in-situ urease test)

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Food containers (glass, ceramic and enamel ware)	Toxicological tests :- Leachable Cadmium and Lead	Specifications and Standards for Food, Food Additives, etc., Chapter III Apparatus, Containers and Packaging, Part D Cl. 1 (Notification no. 370 of ministry of health, labour and welfare, 1959), (Notification No. 416 of ministry of health, labour and welfare, Amd. on 31/7/08), under the Japan Food Sanitation Law (Law No. 233, 1947) *Test procedure for compliance testing*:- Specifications, Standards and Testing Methods for Foodstuffs, Implements, Containers and Packaging, Toys, Detergents – JETRO 2008 Section II Part D Cl. D-1

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Food composition tests:-	
Nuts and nut products	Protein (crude)	AOAC Official Methods 950.48 (2005)
Meat and meat products	Nitrogen content	BS 4401: Part 2: 1980 ISO 937-1978
Meat	Moisture	AOAC Official Methods 950.46B (a) (2005)
Refined oils	Fatty acids (free), acid value	AOAC Official Methods 940.28 (2005)
Oils and fats	Peroxide value	AOAC Official Methods 965.33 (2005)
General food	Sugars content - Fructose, Glucose, Galactose, Surcose, Lactose and Maltose	In-house method FC068.TP (Solvent extraction and HPLC-ELSD)
	Saturated fatty acids ($C_{4:0}$, $C_{6:0}$, $C_{8:0}$, $C_{10:0}$, $C_{12:0}$, $C_{14:0}$, $C_{15:0}$, $C_{16:0}$, $C_{17:0}$, $C_{18:0}$, $C_{20:0}$, $C_{22:0}$, $C_{24:0}$)	AOAC Official Methods 996.06 (2005)
	Trans fatty acids ($C_{14:1T}$(9-trans), $C_{16:1T}$(9-trans), $C_{18:1T}$(total), $C_{18:2TT}$(9,12-trans), $C_{18:2T}$(9-cis,12-trans), $C_{18:2T}$(9-trans,12-cis), $C_{20:1T}$(11-trans), $C_{22:1T}$(13-trans))	AOAC Official Methods 996.06 (2005)
	Sodium content	In-house method (FC085.TP) (Microwave digestion and FAAS)

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Preservatives:-	
Meat and meat product	Sodium nitrate Sodium nitrite	BS 4401: Part 7: 1976 BS 4401: Part 8: 1976
General foodstuff	Benzoic acid, Methyl parahydroxybenzoate, Ethyl parahydroxybenzoate, Propyl parahydroxybenzoate, Sorbic acid	In-house method FC064.TP (Solvent extraction and HPLC-PDA)
General foodstuff (excluding alcoholic beverages)	Sulphur dioxide	In-house method FC065.TP (technique used: distillation followed by colorimetric determination)
	Metals:-	
General foodstuff (excluding bottled water)	Antimony, Arsenic, Cadmium, Chromium, Lead, Mercury, Tin	In-house method FC067.TP (Microwave digestion and ICP-MS)

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Water	Microbiological tests :-	
	Total Coliform count	APHA 24e 9222 B (Membrane Filtration Method)
	Fecal Coliform count	APHA 24e 9222 D (Membrane Filtration Method)
	E. coli count	APHA 24e 9222 D & G (Membrane Filtration Method followed by *E. coli* Partition Method)
Potable water	Heterotrophic Plate Count (Colony count at 35°C)	APHA 24e 9215 A & D (Membrane Filtration Method)

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Microbiological tests :-	
General foodstuff	Mold and yeast (total) counts	US FDA Bacteriological Analytical Manual Online (BAM online), Chapter 18, April 2001 (Dilution Plating Technique: Pour plate method) AOAC 2014.05 (2016) (General food) (Petrifilm Method)
	Aerobic Plate count	US FDA Bacteriological Analytical Manual Online (BAM online), Chapter 3, January 2001 (Conventional Plate Count Method)
	Total Coliform count	AOAC 991.14 (2016) (General foods) (Petrifilm Method) AOAC 986.33 (2016) (For milk) (Petrifilm Method)
	Coliform count	US FDA Bacteriological Analytical Manual Online (BAM online), Chapter 4, October 2020 (Pour plate: solid medium method or MPN Method)
	Faecal Coliform count	US FDA Bacteriological Analytical Manual Online (BAM online), Chapter 4, October 2020 (MPN Method)
	E. coli count	US FDA Bacteriological Analytical Manual Online (BAM online), Chapter 4, October 2020 (MPN Method followed by LST-MUG Method) or (MPN Method followed by completed test for *E. coli*) AOAC 991.14 (2016) (General foods) (Petrifilm Method) AOAC 998.08 (2016) (For meat, poultry and seafood) (Petrifilm Method)
	E. coli O157	AFNOR Certificate (BIO 12/25-05/09) AOAC RI Approved protocols (N°060903) - Detection Method using VIDAS automated immunoassay system) - Confirmed by US FDA Bacteriological Analytical Manual Online (BAM online), Chapter 4A, July 2020 (updated on 07/2020)

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Microbiological tests :- (cont'd)	
Dairy products, vegetables, seafood, raw meats and poultry, and processed meats and poultry	*Listeria monocytogenes*	US FDA Bacteriological Analytical Manual Online (BAM online), Chapter 10, April 2022 - Detection by Vidas LMO2 and API Listeria
General foodstuff	*Listeria monocytogenes*	ISO 11290-2: 2017 - Part 2: Enumeration method (by chromogenic agar and API Listeria)
	Salmonella	US FDA Bacteriological Analytical Manual Online (BAM online), Chapter 5, September 2023 (Isolation and Identification) AOAC Official Methods 2004.03 (2016) (Enzyme-Linked Fluorescent Assay) (ELFA) Screening Method using VIDAS automated immunoassay system)
	Staphylococcus aureus count (coagulase positive)	US FDA Bacteriological Analytical Manual Online (BAM online), Chapter 12, March 2016 (Direct Plate Count Method) or (MPN Method)
Selected types of processed and prepared foods	*Staphylococcus aureus* count (coagulase positive)	AOAC 2003.07 (2016) (processed and prepared foods) (Petrifilm Method)
Selected dairy food	*Staphylococcus aureus* count (coagulase positive)	AOAC 2003.08 (2016) (dairy food) (Petrifilm Method)
Selected meat, seafood and poultry	*Staphylococcus aureus* count (coagulase positive)	AOAC 2003.11 (2016) (For meat, seafood and poultry) (Petrifilm Method)

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Miscellaneous 雜類		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Microbiological tests :-	
Cosmetics, liquids, pastes, putties, gels and powders	Microbiological examination of non-sterile products:	PCPC Microbiology Guidelines (2022) Section 12 Establishing Microbiological Quality of Personal Care Products Specific Criteria
		Test Procedures for compliance testing:
	Microbial enumeration tests	United States Pharmacopeia – National Formulary (USP–NF) 2023, Issue 1, Chapter <61>
	Test for specified microorganisms	United States Pharmacopeia – National Formulary (USP–NF) 2023, Issue 1, Chapter <62>
	Antimicrobial effectiveness testing	United States Pharmacopeia – National Formulary (USP–NF) 2023, Issue 1, Chapter <51>

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Miscellaneous 雜類		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Microbiological tests :- (cont'd)	
Cosmetics	Microbiological examination of non-sterile products:	The European Cosmetic Regulation 1223/2009/EC (Annex I Part A Item 3) and The SCCS Notes of Guidance for the Testing of Cosmetics Ingredients and Their Safety Evaluation, 12th Revision, 15 May 2023, SCCS/1647/22, Appendix 9: Guidelines on Microbiological Quality of the Finished Cosmetic Product
		Test Procedures for compliance testing:
	Microbial enumeration tests	European Pharmacopoeia 11.2th edition (2023) Chapter 2.6.12 (01/2021:20612) British Pharmacopoeia (2023), App. XVI B-2 BS EN ISO 21149: 2017/Amd 1: 2022 (Pour Plate Method only) & ISO 16212: 2017/Amd 1: 2022 (Pour Plate Method only)
	Test for specified microorganisms	European Pharmacopoeia 11.2th edition (2023) Chapter 2.6.13 (01/2021:20613) British Pharmacopoeia (2023), App. XVI B-1 ISO 22717:2015/Amd 1: 2022, ISO 22718:2015/Amd 1: 2022 & BS EN ISO 18416:2015/Amd 1: 2022 & ISO 21150:2015/Amd 1: 2022
	Efficacy of Antimicrobial Preservation (Challenge Test)	European Pharmacopoeia 11.2th edition (2023) Chapter 5.1.3 (04/2022: 50103) British Pharmacopoeia (2023), App. XVI C (Criteria B) (Count by Pour Plate Method)

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Miscellaneous 雜類		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Microbiological tests :- (cont'd)	
Cosmetics	Evaluation of antimicrobial protection	ISO 11930: 2019/Amd 1: 2022
	Tests for microbial contamination:	
	Enumeration of aerobic mesophilic bacteria	BS EN ISO 21149: 2017/Amd 1: 2022 (Pour Plate Method only)
	Enumeration of yeast and mould	ISO 16212: 2017/Amd 1: 2022 (Pour Plate Method only)
	Detection of specified microorganisms	ISO 18415: 2017/Amd 1: 2022 ***<Excluding the following>*** Cl. 9.9, 10.2
	Detection of *Candida albicans*	BS EN ISO 18416: 2015/Amd 1: 2022
	Detection of *Escherichia coli*	ISO 21150: 2015/Amd 1: 2022
	Detection of *Pseudomonas aeruginosa*	ISO 22717: 2015/Amd 1: 2022
	Detection of *Staphylococcus aureus*	ISO 22718: 2015/Amd 1: 2022

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Miscellaneous 雜類		
ITEM TESTED OR MEASURED 測試或量度項目		**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Domestic gas appliances	Safety tests :-	
- Domestic gas appliances not connected to a flue (for LPG and Town gas)	- basic requirements - general construction - gas soundness - ignition - flame stability - heat input - gas pressure regulating performance - combustion - flame failure devices - surface temperature - electrical insulation resistance	EMSD/GU05/GS/TA2/NCF: August 2016
	- basic requirements - general construction - gas soundness - ignition - flame stability - heat input - combustion - flame failure devices - electrical insulation resistance	EMSD/GU05/GS/QA: August 2016

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Miscellaneous 雜類		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Domestic gas appliances (cont'd)	Safety tests :- (cont'd)	
- Domestic gas appliances connected to a flue (for LPG and Town gas)	- basic requirements - general construction - gas soundness - water soundness - ignition - flame stability - heat input - gas pressure regulating performance - combustion - flame failure devices - surface temperature - overheating of water (for instantaneous water heaters) - electrical insulation resistance - soundness of combustion circuit of room-sealed appliances - combustion products discharge failure devices of fan powered appliances	EMSD/GU05/GS/TA2/CTF: August 2016
	- basic requirements - general construction - gas soundness - water soundness - ignition - flame stability - heat input - combustion - flame failure devices - electrical insulation resistance	EMSD/GU05/GS/QA: August 2016

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Miscellaneous 雜類		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Domestic gas appliances (cont'd)	Safety tests :- (cont'd)	
- Portable hotplates fuelled by disposable LPG cylinders	- basic requirements - general construction - gas soundness - ignition - flame stability - gas consumption - combustion - flame failure devices - surface temperature - electrical insulation resistance - over-pressure sensitive safety device	EMSD/GU05/GS/TA2/NCF: August 2016
	- basic requirements - general construction - gas soundness - ignition - flame stability - gas consumption - combustion - flame failure devices - electrical insulation resistance - over-pressure sensitive safety device	EMSD/GU05/GS/QA: August 2016

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Pharmaceutical Products 藥物		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Microbiological examination :-	
Non-sterile pharmaceutical preparations and substances for pharmaceutical use	Microbiological quality:	*Acceptance criteria:* United States Pharmacopeia – National Formulary (USP–NF) 2023, Issue 1, Chapter <1111>
		Examination procedures:
	Microbial enumeration tests	United States Pharmacopeia – National Formulary (USP–NF) 2023, Issue 1 Chapter <61>
	Test for specified microorganisms	United States Pharmacopeia – National Formulary (USP–NF) 2023, Issue 1, Chapter <62>
	Microbiological quality:	*Acceptance criteria:* European Pharmacopoeia 11.2th edition (2023) Chapter 5.1.4 (01/2021:50104) revised 10.3
		Examination procedures:
	Test for specified microorganisms	European Pharmacopoeia 11.2th edition (2023) Chapter 2.6.13 (01/2021:20613)
	Microbial enumeration tests	European Pharmacopoeia 11.2th edition (2023) Chapter 2.6.12 (01/2021:20613)
	Microbiological quality:	*Acceptance criteria:* British Pharmacopoeia (2023), App. XVI D
		Examination procedures:
	Test for specified microorganisms	British Pharmacopoeia (2023), App. XVI B-1
	Microbial enumeration tests	British Pharmacopoeia (2023), App. XVI B-2

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Pharmaceutical Products 藥物		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Microbiological examination :- (cont'd)	
Sterile pharmaceutical substances, preparation and articles for pharmaceutical use	- Sterility tests	European Pharmacopoeia, 11.2th edition (2023) Chapter 2.6.1 (04/2011:20601 corrected 7.7) British Pharmacopoeia (2023), Appendix XVI A
Sterile pharmaceutical substances, preparation and articles for pharmaceutical use <excluding the following> Penicillins, Cephalosporins, Sterile aerosol products, Devices with pathways labeled sterile.	- Sterility tests	United States Pharmacopeia – National Formulary (USP–NF) 2023, Issue 1, Chapter <71>

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Physical and Mechanical Testing 物理及機械測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Cutlery and utensils in contact with food	Safety and performance tests :-	
- Cutlery		
- Food preparation cutlery	- Construction and performance tests	BS EN ISO 8442-1: 1998 + A1: 2000 EN ISO 8442-1: 1997 + A1: 1999 ISO 8442-1: 1997 ***<Excluding the following>*** for the above three standards Section 4, Cl. 5.1, 6.4, 6.8
- Stainless steel table cutlery	- Construction and performance tests	BS EN ISO 8442-2: 1998 + A1: 1999 + A2: 2000 + Corr. 1: 2006 EN ISO 8442-2: 1997 + A1: 1999 + A2: 1999 ISO 8442-2: 1997 ***<Excluding the following>*** for the above three standards Section 4 and 6, Cl. 5.4, 7.4
- Table cutlery with non-metallic handle	- Construction and performance tests	BS 5577: 1999 ***<Excluding the following>*** Section 4 and 6, Cl. 5.4, 7.4, 7.5, 7.7, 7.8, 7.9, 7.10, 7.11
- Cookware		
- Ceramic, glass, glass-ceramic or plastic cookware	- Microwave heating resistance test	BS EN 15284: 2007 EN 15284: 2007
- Ceramic, glass or glass-ceramic cookware	- Thermal shock and thermal shock endurance tests	BS EN 1183: 1997 EN 1183: 1997
- Ceramic cookware	- Water absorption test	BS EN 1217: 1998 EN 1217: 1997
- Domestic ceramic cookware	- Dish washing resistance test	BS EN 12875-4: 2006 EN 12875-4: 2006
- Domestic cookware	- Construction and performance tests	BS EN 12983-1: 2000 + A1: 2005 EN 12983-1: 2000 + A1: 2004 ***<Excluding the following>*** for the above two standards Section 8

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Physical and Mechanical Testing 物理及機械測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Cutlery and utensil in contact with food (cont'd)	Safety and performance tests :- (cont'd)	
- Tableware		
- Catering or industrial ceramic or glass tableware	- Impact resistance test	BS EN 12980: 2000 EN 12980: 2000
- Ceramic, glass or glass-ceramic tableware	- Thermal shock and thermal shock endurance tests	BS EN 1183: 1997 EN 1183: 1997
- Ceramic tableware	- Water absorption test	BS EN 1217: 1998 EN 1217: 1997
- Domestic ceramic tableware	- Dish washing resistance test	BS EN 12875-4: 2006 EN 12875-4: 2006
- Glazed ceramic tableware	- Crazing resistance test	BS EN 13258: 2003 EN 13258: 2003 <***Excluding the following***> for the above two standards Cl. 3.1, 6.1, 6.3.1, 7.1.1, 7.2.1
Glass and glass products	Performance test :-	
- Glass container	- Determination of relative optical retardation associated with the state of annealing	ASTM C148-17
Polymer and polymer products	Safety and performance tests :-	
- Hot water bottle	- Safety requirements and test methods	BS 1970: 2012 <***Excluding the following***> Cl. 3 Australian Trade Practices (Consumer Product Safety Standard) (Hot Water Bottles) Regulations 2008
Magnets, Magnetic Materials and Magnetic Products		
- Comsumer Product containing Magnet	- Safety requirements and test methods	16 CFR Part 1262 in conjunction with ASTM F963-17

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Textiles and Garments 紡織品及成衣		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
General textiles and garments	Care performance tests :- - Dimensional changes on drycleaning in Perchloroethylene : machine method	AATCC TM158-1978e10(2016)e
General textiles and garments	- Assessing properties of drycleanability for: - dimensional stability - colour fastness (specimen, staining on multifibre adjacents, water spotting) - seam pucker - loss of finish (water resistance to ISO 811: 2018) - loss of finish (flame resistance) - crease retention - creasing propensity - wrinkle recovery - surface abrasion - performance of components, trims, accessories and adornments - distortion (skewness, differential shrinkage) - felting - adhesion of fusible interlinings and bonded fabrics - frayed of seams - handle - pilling	BS EN ISO 3175-1: 2018 ISO 3175-1: 2017
General textiles and garments	- Procedure for testing performance when cleaning and finishing using tetrachloroethene	BS EN ISO 3175-2: 2018 ISO 3175-2: 2017 < ***Excluding the following*** > for the above two standards Cl. 9.2.9 Method E
General textiles and garments	- Procedure for testing performance when cleaning and finishing using simulated wetcleaning	BS EN ISO 3175-4: 2018 ISO 3175-4: 2018 < ***Excluding the following*** > for the above two standards Cl. 9.2.9 Method E

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Textiles and Garments 紡織品及成衣		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
General textiles and garments 一般紡織品及成衣	Care performance tests :- (cont'd) - Dimensional stability to washing 洗滌後尺寸變化測定	AATCC TM135-2018t AATCC TM150-2018t AS 2001.5.4-2005 BS EN ISO 5077: 2008 ISO 5077: 2007 GB/T 8630-2013 GB/T 8628-2013 GB/T 8629-2017 < ***Excluding the following*** > Cl. 5.1.2, 5.1.3, 5.2.3, 6.1.4, 6.1.5, 9.3b) and 9.3c) CAN/CGSB-4.2 No. 58-2004 < ***Excluding the following*** > Drying procedure: Procedure B and Restoration procedure: Procedures 1and 2 CAN/CGSB-4.2 No. 58-2019 < ***Excluding the following*** > Cl. 4.2.1 BS EN ISO 3759: 2011 ISO 3759: 2011 (for the above two standards using the following standards for specimen treatment: BS EN ISO 6330: 2012 < ***Excluding the following*** > Cl. 5.1.2, 5.1.3, 5.2.2, 5.2.3, 6.1.2, 6.1.4 and 6.1.5 BS EN ISO 6330: 2021 < ***Excluding the following*** > Cl. 5.1.2, 5.1.3, 5.2.2, 5.2.3, 6.1.2, 6.1.4, 6.1.5 and 6.1.7 ISO 6330: 2012 < ***Excluding the following*** > Cl. 5.1.2, 5.1.3, 5.2.2, 5.2.3, 6.1.2, 6.1.4, 6.1.5 ISO 6330: 2021 < ***Excluding the following*** > Cl. 5.1.2, 5.1.3, 5.2.2, 5.2.3, 6.1.2, 6.1.4, 6.1.5 and 6.1.7 BS EN ISO 3175-2: 2010 < ***Excluding the following*** > Cl. 8.1.9 Method E ISO 3175-2: 2010 < ***Excluding the following*** > Cl. 8.1.9 Method E BS EN ISO 6330: 2001 + A1: 2009 ISO 6330: 2000 + A1: 2008

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Textiles and Garments 紡織品及成衣		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
General textiles and garments	Care performance tests :- (cont'd) - Dimensional stability to steaming	BS 4323: 1979 ISO 3005: 1978
	- Dimensional stability to heating for linings in uniform clothing	BS 4560: 1990 App. B
	- Relaxation and felting shrinkage	WOOLMARK TWC-TM 31-2009
	- Wash and wear performance	AATCC TM88B-2018te AATCC TM88C-2018te AATCC TM124-2018te AATCC TM143-2018te

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Textiles and Garments 紡織品及成衣		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Chemical analysis :-	
General textiles and garments	- Extractable content	ASTM D2257 - 20
Wool and other fibers	- Extractable content	ASTM D1574 - 22
Cotton	- Determination of oils, fats and waxes	BS 3477: 1962
General textiles and garments 一般紡織品及成衣	- Free formaldehyde content 游離水解甲醛含量	JIS L1096-2010 (based on English Edition published in 2012-10) Section 8.36 Method A & B JIS L1041-2011 (based on English Edition published in 2013-12) Section 8.1.3 Method A, 8.1.4 Method B and Annex JE BS EN ISO 14184-1: 2011 EN ISO 14184-1: 2011 ISO 14184-1: 2011 GB/T 2912.1-2009 SASO-ISO-14184-1-2014
	- pH value pH 值	AATCC TM81-2022 BS EN ISO 3071: 2020 EN ISO 3071: 2020 ISO 3071: 2020 BS EN 1413: 1998 GB/T 7573-2009 SASO-ISO-3071-2022
	- Released formaldehyde content 釋放甲醛含量	AATCC TM112-2020 BS EN ISO 14184-2: 2011 EN ISO 14184-2: 2011 ISO 14184-2: 2011 GB/T 2912.2-2009 SASO-ISO-14184-2-2014
	- Total and free formaldehyde content	BS 6806: 2002

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Textiles and Garments 紡織品及成衣		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
General textiles and garments 一般紡織品及成衣	Colour fastness tests :- - Acid spotting 耐酸斑色牢度	AATCC TM6-2021 < ***Excluding the following*** > instrumental assessment of change in color AS 2001.4.12-1981 Rec:2016 BS 1006: 1990 part E05 BS EN ISO 105-E05: 2010 DIN EN ISO 105-E05: 2010 ISO 105-E05: 2010 GB/T 5715-2013 < ***Excluding the following*** > for the above four standards instrumental assessment of change in color JIS L0851-2013 (based on English Edition published in 2014-08) < ***Excluding the following*** > instrumental assessment of change in color
	- Alkaline spotting 耐鹼斑色牢度	AATCC TM6-2021 < ***Excluding the following*** > instrumental assessment of change in color BS 1006: 1990 part E06 AS 2001.4.9-1981 BS EN ISO 105-E06: 2006 DIN EN ISO 105-E06: 2006 ISO 105-E06: 2006 GB/T 5716-2013 < ***Excluding the following*** > for the above four standards instrumental assessment of change in color
	- Bleaching with hypochlorite 耐漂白色牢度	AS 2001.4.11-1982 Rec:2016 BS 1006: 1990 part N01 BS EN 20105-N01: 1995 ISO 105-N01: 1993 JIS L0856-2002 (based on English Edition published in 2003-08) GB/T 7069: 1997

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Textiles and Garments 紡織品及成衣		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
General textiles and garments 一般紡織品及成衣	Colour fastness tests :- (cont'd) - Chlorinated water 耐氯化水色牢度	AATCC TM162-2011e2 < ***Excluding the following*** > Cl. 7.1 Option 1 and 8.2 Option 1, instrumental assessment of change in color AS/NZS 2001.4.5:1998 Rec:2016 BS 1006 : 1990 part E03 BS 1006 UK-TK: 1985 CAN/CGSB-4.2 No. 52.2-98 JIS L0884-1996 (based on English Edition published in 1996-07) BS EN ISO 105-E03: 2010 ISO 105-E03: 2010 GB/T 8433: 2013 < ***Excluding the following*** > for the above three standards instrumental assessment of change in color
	- Dry cleaning 耐乾洗色牢度	AATCC TM132-2004e3(2013)e3 BS EN ISO 105-D01: 2010 DIN EN ISO 105-D01: 2010 ISO 105-D01: 2010 SASO-ISO-105-D01-2014 GB/T 5711-2015 < ***Excluding the following*** > for the above six standards instrumental assessment of change in color & staining AS 2001.4.16-1981 Rec:2016 BS 1006: 1990 Part D01 CAN/CGSB-4.2 No. 29.1-M89 JIS L0860-2020 (based on English Edition published in 2021-02) Method A < ***Excluding the following*** > instrumental assessment of change in color & staining
	- Dryheat 耐乾熱色牢度	AATCC TM117-2019 < ***Excluding the following*** > instrumental assessment of change in color & staining BS 1006: 1990 Part P01 BS EN ISO 105-P01: 1995 ISO 105-P01: 1993 JIS L0879-2005 (based on English Edition published in 2005-08) GB/T 5718-1997

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Textiles and Garments 紡織品及成衣		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
General textiles and garments 一般紡織品及成衣	Colour fastness tests :- (cont'd) - Hot pressing 耐熱壓色牢度	AATCC TM133-2020e **< *Excluding the following* >** instrumental assessment of change in color & staining AS 2001.4.6-1990 Rec:2016 BS 1006: 1990 Part X11 BS EN ISO 105-X11: 1996 DIN EN ISO 105-X11: 1996 ISO 105-X11: 1994 CAN/CGSB-4.2 No. 31-2004 (R2013) GB/T 6152: 1997 JIS L0850-2015 (based on English Edition published in 2016-04) **< *Excluding the following* >** instrumental assessment of change in color & staining
	- Light (detection of photochromism)	BS EN ISO 105-B05: 1996 ISO 105-B05: 1993
	- Light (xenon arc lamp tester) 耐人造光色牢度	AATCC TM16.3-2020 Option 3 **< *Excluding the following* >** instrumental assessment of change in color BS 1006 B02: 1990 Method 2 BS EN ISO 105-B02: 2014 Method 2 Exposure Cycle A1 DIN EN ISO 105-B02: 2014 Method 2 Exposure Cycle A1 ISO 105-B02: 2014 Method 2 Exposure Cycle A1 CAN/CGSB-4.2 No.18.3- 97 (R2010) Method 2 WOOLMARK TWC-TM5-2008 JIS L0843-1998 (based on English Edition published in 1999-10) AS 2001.4 B02-2001 Rec:2016 Method 2 GB/T 8427-2019 Method 3 **< *Excluding the following* >** instrumental assessment of change in color
	- Non-chlorine bleach (soaking test)	In-house Method SLHK-T-TMDF25-2018

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Textiles and Garments 紡織品及成衣		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
General textiles and garments 一般紡織品及成衣	Colour fastness tests :- (cont'd) - Perspiration 汗液堅牢度	AATCC TM15-2021e BS EN ISO 105-E04: 2013 DIN EN ISO 105-E04: 2013 ISO 105-E04: 2013 GB/T 3922-2013 **< *Excluding the following* >** for the above five standards instrumental assessment of change in color & staining AS 2001.4 E04-2005 Rec:2016 BS 1006: 1990 Part E04 CAN/CGSB-4.2 No.23-M90 (R2013) WOOLMARK TWC-TM 174-2009 (Alkaline test) JIS L0848-2004 (based on English Edition published in 2004-10)
	- Rubbing/Crocking 磨擦堅牢度	AATCC TM8-2016e(2022)e **< *Excluding the following* >** instrumental assessment of staining BS EN ISO 105-X12: 2016 DIN EN ISO 105-X12: 2016 ISO 105-X12: 2016 AS 2001.4.3-1995 Rec:2016 BS 1006: 1990 Part X12 CAN/CGSB-4.2 No. 22: 2004 (R2013) WOOLMARK TWC-TM 165-2009 GB/T 3920-2008 SASO-ISO-105-X12-2005 JIS L0849-2013 (based on English Edition published in 2013-08) **< *Excluding the following* >** instrumental assessment of staining
	- Rubbing/Crocking (Rotary vertical crockmeter)	AATCC TM116-2018e(2022)e **< *Excluding the following* >** instrumental assessment of staining BS EN ISO 105-X16: 2016 DIN EN ISO 105-X16: 2016 ISO 105-X16: 2016

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Textiles and Garments 紡織品及成衣		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Colour fastness tests :- (cont'd)	
Other materials - Leather	- Rubbing	DIN EN ISO 11640: 2018 BS EN ISO 11640: 2018 EN ISO 11640: 2018 ISO 11640: 2018 IULTCS/IUF 450: 2018 < ***Excluding the following*** > for the above five standards instrumental assessment of change in color & staining
Specific Products - Footwear	- Rubbing	Satra test method TM8-2004 < ***Excluding the following*** > Procedures 6.4, 6.5 and 6.6
- Textile floor covering	- Rubbing/Crocking	AATCC TM165-1999e10(2021)e < ***Excluding the following*** > instrumental assessment of staining
General textiles and garments 一般紡織品及成衣	- Saliva 耐唾液堅牢度	GB/T 18886-2019 < ***Excluding the following*** > instrumental assessment of change in color & staining
	- Saliva and perspiration	DIN 53160-1: 2010 DIN 53160-2: 2010
	- Sea water 耐海水色牢度	AATCC TM106-2009e(2013)e3 BS EN ISO 105-E02: 2013 DIN EN ISO 105-E02: 2013 ISO 105-E02: 2013 GB/T 5714: 2019 < ***Excluding the following*** > for the above five standards instrumental assessment of change in color & staining AS 2001.4 E02-2001 Rec:2016 BS 1006: 1990 Part E02 CAN/CGSB-4.2 No. 21-M90 (R2013) JIS L0847-2004 (based on English Edition published in 2004-10)

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Textiles and Garments 紡織品及成衣		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
General textiles and garments 一般紡織品及成衣	Colour fastness tests :- (cont'd) - Washing (full temperature range) 耐洗色牢度	BS 1006 1990 Part C01 BS 1006 1990 Part C02 BS 1006 1990 Part C03 BS 1006 1990 Part C04 BS 1006 1990 Part C05 BS 1006: 1990 Part C06 AS 2001.4.15-2006 Rec:2016 CAN/CGSB-4.2 No. 19.1: 2004 (R2013) WOOLMARK TWC-TM 193-2009 WOOLMARK TWC-TM 250-2009 JIS L0844-2011 (based on English Edition published in 2013-01) **< *Excluding the following* >** Cl. 4 Classification of test, Method E and Annex C
	- Accelerated laundering:	AATCC TM61-2013e(2020)e2 **< *Excluding the following* >** instrumental assessment of change in color & staining
	- Domestic and commercial laundering	SASO-ISO-105-C06-2014 GB/T 12490: 2014 BS EN ISO 105-C06: 2010 DIN EN ISO 105-C06: 2010 ISO 105-C06: 2010 **< *Excluding the following* >** for the above five standards instrumental assessment of change in color & staining
	- Domestic and commercial laundering (using a non-phosphate reference detergent incorporating a low temperature bleach activator)	DIN EN ISO 105-C08: 2010 BS EN ISO 105-C08: 2010 ISO 105-C08: 2010 **< *Excluding the following* >** for the above three standards instrumental assessment of change in color & staining
	- Washing with soap or soap and soda	GB/T 3921: 2008 SASO-ISO-105-C10: 2014 BS EN ISO 105-C10: 2007 ISO 105-C10: 2006 **< *Excluding the following* >** For the above four standards instrumental assessment of change in color & staining

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Textiles and Garments 紡織品及成衣		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
General textiles and garments 一般紡織品及成衣	Colour fastness tests :- (cont'd) - Water 耐水堅牢度	AATCC TM107-2022e BS EN ISO 105-E01: 2013 DIN EN ISO 105-E01: 2013 ISO 105-E01: 2013 GB/T 5713-2013 **< *Excluding the following* >** for the above five standards instrumental assessment of change in color & staining AS 2001.4 E01-2001 Rec:2016 BS 1006: 1990 Part E01 CAN/CGSB-4.2 No. 20-M89 (R2013) WOOLMARK TWC-TM 6-2009 JIS L0846-2004 (based on English Edition published in 2004-10)
General textiles and garments 一般紡織品及成衣	- Water spotting 耐水斑色牢度	AATCC TM104-2010(2014)e2 BS EN ISO 105-E07: 2010 DIN EN ISO 105-E07: 2010 ISO 105-E07: 2010 GB/T 5717-2013 **< *Excluding the following* >** for the above five standards instrumental assessment of change in color AS/NZS 2001.4.4-1998 Rec:2016 BS 1006: 1990 Part E07 JIS L0853-1975 (based on English Edition published in 1975-03)

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Textiles and Garments 紡織品及成衣		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
General textiles and garments	Construction tests :- - Distortion in bowed and skewed fabrics	ASTM D3882 - 08(2020) BS 2819: 1990 + A2: 2016 JIS L1096-2010 (based on English Edition published in 2012-10) Section 8.12 Method A
	- Fabric weight	ASTM D3776 / D3776M - 20 ASTM D3887 - 96(2008) Section 9 BS 2471: 2005 CAN/CGSB-4.2 No. 5.1-M90 ISO 3801: 1977 WOOLMARK TWC-TM 13-2009 JIS L1096-2010 (based on English Edition published in 2012-10) Section 8.3 Method A AS 2001.2.13-1987 Rec:2016 BS EN 12127: 1998 EN 12127: 1998
	- Fabric width	ASTM D3774 - 18 Option B ASTM D3887 - 96(2008) Section 10 BS EN 1773: 1997 EN 1773: 1996 CAN/CGSB-4.2 No. 4.1-2008 ISO 22198: 2006 JIS L1096-2010 (based on English Edition published in 2012-10) Section 8.2.1 Method A AS 2001.2.12-1987 Rec:2016
	- Terry ratio	EN 14697: 2005 Annex C

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Textiles and Garments 紡織品及成衣		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
General textiles and garments	Construction tests :- (cont'd) - Threads per unit length, woven	AS 2001.2.5-1991 Rec:2016 Test C ASTM D3775 - 17e1 CAN/CGSB-4.2 No. 6-M89 ISO 7211-2: 1984 Methods A, B and C JIS L1096-2010 (based on English Edition published in 2012-10) Section 8.6.1 Method A BS EN 1049-2: 1994 EN 1049-2: 1993
	- Twist of yarn	ASTM D1422 / D1422M - 13(2020) ASTM D1423 / D1423M – 16(2022) BS EN ISO 2061: 2015 EN ISO 2061: 2015 ISO 2061: 2015 CAN/CGSB-4.2 Nos. 8.1-M89 CAN/CGSB-4.2 Nos. 8.2-M89 ISO 7211-4: 1984 AS 2001.2.14-1987 Rec:2016
	- Weft knit, Stitch density	AS 2001.2.6-2001 Rec:2016 Test C ASTM D3887 - 96(2008) Section 12 BS 5441: 1988 + A1: 2019 Section 2 Cl. 9 CAN/CGSB-4.2 No. 7-M88 JIS L1096-2010 (based on English Edition published in 2012-10) Section 8.6.2
	- Yarn linear density: a) woven and weft knit fabric	ASTM D1059 - 17 BS ISO 7211-5: 2020 ISO 7211-5: 2020 BS EN 14970: 2006 JIS L1096-2010 (based on English Edition published in 2012-10) Section 8.9.1.1 (a) Method A & 8.9.1.1 (b)
	b) yarn in skein form	AS 2001.2.23 - 1990 Rec:2016 ASTM D1907 / D1907M - 12(2018) Option 1 CAN/CGSB-4.2 No. 5.2-M87 BS EN ISO 2060: 1995 EN ISO 2060: 1995 ISO 2060: 1994

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Textiles and Garments 紡織品及成衣		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Construction tests :- (cont'd)	
Buttons and other detachable components of children's garment and bedding	- Sharp point in articles intended for use by children under 8 years of age	US 16 CFR 1500.48
	- Sharp metal or glass edge in articles intended for use by children under 8 years of age	US 16 CFR 1500.49
	- Test methods for simulating use and abuse of other articles intended for use by children: a) impact test b) torque test c) tension test d) compression test	US 16 CFR 1500.50, 1500.51(b), (e), (f), (g) and 1500.52(b), (e), (f), (g) and 1500.53(b), (e), (f), (g)
Children's upper outwear	- Measurement of drawstrings	ASTM F1816 - 18
兒童上衣	拉帶安全規格	GB/T 22702-2019
Children's clothing 童裝	- Measurement of cords and drawstrings 繩索和拉帶安全要求	NF EN 14682: 2015 DIN EN 14682: 2015 BS EN 14682: 2014 EN 14682:2014 CNS 15291 - 2019 GB/T 22705-2019

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Textiles and Garments 紡織品及成衣		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
General textiles and garments	Fabric performance tests : - - Air permeability	ASTM D737 - 18 BS EN ISO 9237: 1995 DIN EN ISO 9237: 1995 ISO 9237: 1995
	- Abrasion resistance a) Martindale tester	AS 2001.2.25.2 2006 Rec:2016 ASTM D4966 - 22 WOOLMARK TWC-TM 112-2009 JIS L1096-2010 (based on English Edition published in 2012-10) Section 8.19.5 Method E BS EN ISO 12947-2: 2016
	b) Stoll flat abrasion tester	AS 2001.2.27-1990 Rec:2016 ASTM D3886 - 22
	c) Flex abrasion tester	AS 2001.2.26-1990 Rec:2016 ASTM D3885 - 07a(2019)e1 JIS L1096-2010 (based on English Edition published in 2012-10) Section 8.19.1 Method A2
	d) Taber abrasion tester	ASTM D3884 - 09(2017) ASTM D4685 / D4685M - 15(2020) JIS L1096-2010 (based on English Edition published in 2012-10) Section 8.19.3 Method C 3.1 (loss in mass) and 3.4 (change in appearance)
	- Fabric stiffness by circular bend procedure	ASTM D4032 - 08(2016)
	- Drying time of textiles	AATCC TM199-2013e(2018)e2
	- Drying rate of fabrics	AATCC TM201-2012(2014)e3
	- Liquid moisture management properties of textile fabrics	AATCC TM195-2011e2(2017)e4

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Textiles and Garments 紡織品及成衣		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
General textiles and garments	Fabric performance tests : - (cont'd) - Penetration resistance of cloth to feather and down material	In-house Method SLHK-T-TMDP07-2006
	- Penetration resistance of cloth to filling material	In-house Method SLHK-T-TMDP13-2006
	- Penetration resistance of garment to passage of polyfill fibre, feathers and down	In-house Method SLHK-T-TMDB23-2016
	- Measurement of thermal and water vapour resistance test	BS EN ISO 11092: 2014 ISO 11092: 2014
	- Moisture content/moisture regain	ASTM D2654 - 22 Procedure 1
	- Pilling resistance a) Pilling box method	CAN/CGSB-4.2 No. 51.1-M95 WOOLMARK TWC-TM 152-2009 BS EN ISO 12945-1: 2020 in conjunction with BS EN ISO 12945-4: 2020 EN ISO 12945-1: 2020 in conjunction with EN ISO 12945-4: 2020 ISO 12945-1: 2020 in conjunction with ISO 12945-4: 2020
	b) Random tumbler tester	ASTM D3512 / D3512M - 22 CAN/CGSB-4.2 No. 51.2-M87
	c) Elastomeric pilling	ASTM D3514 / D3514M - 16(2020)
	d) Martindale abrasion tester	BS EN ISO 12945-2: 2020 in conjunction with BS EN ISO 12945-4: 2020 ISO 12945-2: 2020 in conjunction with ISO 12945-4: 2020
	- Rain test	ISO 22958: 2005
	- Soil release performance	AATCC TM130-2018t
	- Solar UV Protective Properties	AATCC TM183-2020e AS 4399: 2020 BS EN 13758-1: 2002 + A1: 2007 BS EN 13758-2: 2003 + A1: 2007

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Textiles and Garments 紡織品及成衣		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Fabric performance tests : - (cont'd)	
General textiles and garments	- Stretch & recovery	ASTM D2594 - 21 ASTM D3107 - 07(2019) ASTM D4964 - 96(2020) BS EN 14704-1: 2005 EN 14704-1: 2005 JIS L1096-2010 (based on English Edition published in 2012-10) Section 8.16 Method B
	- Vertical wicking tests	AATCC TM197-2022
	- Water repellency (spray rating)	AATCC TM22-2017e ISO 4920: 2012 JIS L1092-2009 (based on English Edition published in 2009-08) Section 7.2 AS 2001.2.16-1987 Rec:2016 CAN/CGSB-4.2 No. 26.2-1994
	- Water resistance (rain test)	AATCC TM35-2018e2
	- Water resistance (hydrostatic pressure test)	AATCC TM127-2017(2018)e Option 2 CAN/CGSB-4.2 No. 26.3-2010 ISO 811: 2018 JIS L1092-2009 (based on English Edition published in 2009-08) Section 7.1 Method A
	- Water resistance (impact penetration test)	AATCC TM42-2017e
	- Wrinkle recovery by recovery angle method	AATCC TM66-2017e2 Option 2 CAN/CGSB-4.2 No. 45-M88 ISO 2313-1: 2021
- Coated fabric	- Weathering resistance	BS EN ISO 4892-2: 2013 EN ISO 4892-2: 2013 ISO 4892-2: 2013 < ***Excluding the following*** > for the above three standards Cl. 7.5

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Textiles and Garments 紡織品及成衣		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Specific Products - Protective apparel and drapes intended for use in health care facilities	Performance tests : - - Impact penetration and hydrostatic pressure	ANSI / AAMI PB70:2012 Cl 5.2.1.1b and 5.2.1.2 *in conjunction with* AATCC TM42-2017e and AATCC TM127-2017(2018)e ***<Excluding the following >*** Determination of level classifications

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Textiles and Garments 紡織品及成衣		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
General textiles and garments - Feather and down 羽毛和羽绒	Feather and down analysis :- - Components in plumage	AS 4823.3-2006 ASTM D4524 - 20 BS EN 12131: 2018 EN 12131: 2018 CAN/CGSB-139.2-M86
	- Down-proof rubbing test	BS EN 12132-1: 1999 EN 12132-1: 1999
	- Filling power	BS EN 12130: 2018 EN 12130: 2018 Quality Feather & Down Testing Corp. Industry Filling Power Test Method
	- Net weight of filling	In-house Method SLHK-T-TMDB13-2006
	- Oxygen number	BS EN 1162: 1997 EN 1162: 1996
	- Turbidity	BS EN 1164: 1999 EN 1164: 1998
	- Moisture content	BS EN 1161: 1997 EN 1161: 1996
	- Testing methods for down and feather 羽毛和羽绒檢驗方法	GB/T 10288-2016 < ***Excluding the following*** > Cl. 5.9

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Textiles and Garments 紡織品及成衣		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
General textiles and garments	Fibre analysis :- - Fibre content (qualitative method)	AATCC TM20-2021 **<*Excluding the following*>** Tests for R.I., M.P., S.G., Glass Fibre and Stain
	- Fibre content (quantitative method - mechanical separation and chemical analysis)	AATCC TM20A-2021e BS 4407: 1988 **< *Excluding the following* >** Methods 12, 13, 17 and 18 CAN/CGSB-4.2 No. 14-2005 WOOLMARK TWC-TM 155-2009 AS 2001.7-2005 Rec:2016 **<*Excluding the following* >** Methods 13, 17 and 18 Regulation (EU) no 1007/2011 SASO-ISO-1833-1994 **< *Excluding the following* >** Methods 14 and 18 BS EN ISO 1833-1: 2020 EN ISO 1833-1: 2020 ISO 1833-1: 2020 (Note: The above Part 1 standard should be used in conjunction with other parts of BS EN ISO 1833 or ISO 1833, as appropriate, for particular fibre mixtures) BS EN ISO 1833-2: 2020 EN ISO 1833-2: 2020 ISO 1833-2: 2020 BS EN ISO 1833-3: 2020 EN ISO 1833-3: 2020 ISO 1833-3: 2020 BS EN ISO 1833-4: 2023 EN ISO 1833-4: 2023 ISO 1833-4: 2023 BS EN ISO 1833-5: 2010 EN ISO 1833-5: 2010 ISO 1833-5: 2006 BS EN ISO 1833-6: 2019 EN ISO 1833-6: 2019 ISO 1833-6: 2018 BS EN ISO 1833-7: 2017 EN ISO 1833-7: 2017 ISO 1833-7: 2017

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Textiles and Garments 紡織品及成衣		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
General textiles and garments	Fibre analysis :- (cont'd) - Fibre content (cont'd) (quantitative method - mechanical separation and chemical analysis) (cont'd)	BS EN ISO 1833-8: 2010 EN ISO 1833-8: 2010 ISO 1833-8: 2006 BS EN ISO 1833-9: 2019 EN ISO 1833-9: 2019 ISO 1833-9: 2019 BS EN ISO 1833-10: 2019 EN ISO 1833-10: 2019 ISO 1833-10: 2019 BS EN ISO 1833-11: 2017 EN ISO 1833-11: 2017 ISO 1833-11: 2017 BS EN ISO 1833-12: 2020 EN ISO 1833-12: 2020 ISO 1833-12: 2020 BS EN ISO 1833-13: 2019 EN ISO 1833-13: 2019 ISO 1833-13: 2019 BS EN ISO 1833-14: 2019 EN ISO 1833-14: 2019 ISO 1833-14: 2019 BS EN ISO 1833-16: 2019 EN ISO 1833-16: 2019 ISO 1833-16: 2019 BS EN ISO 1833-17: 2020 EN ISO 1833-17: 2020 ISO 1833-17: 2019 BS EN ISO 1833-18: 2020 EN ISO 1833-18: 2020 ISO 1833-18: 2020

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Textiles and Garments 紡織品及成衣		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
General textiles and garments	Fibre analysis :- (cont'd) - Fibre content (cont'd) (quantitative method - mechanical separation and chemical analysis) 纖維含量《機械分離及化學分析》	GB/T 2910.1-2009 GB/T 2910.2-2009 GB/T 2910.3-2009 GB/T 2910.4-2022 GB/T 2910.5-2009 GB/T 2910.6-2009 GB/T 2910.7-2009 GB/T 2910.8-2009 GB/T 2910.9-2009 GB/T 2910.10-2009 GB/T 2910.11-2009 GB/T 2910.12-2009 GB/T 2910.13-2009 GB/T 2910.14-2009 GB/T 2910.16-2009 GB/T 2910.17-2009 GB/T 2910.18-2009
	- Fibre content (quantitative method - microscopic analysis)	AATCC TM20A-2021
	- Fibre diameter (animal fibres, yarn and fabric only)	ISO 137: 2015 ASTM D2130 - 22 IWTO -8-2011
	- Degree of mercerization of cotton fibre a) microscopical method - deconvolution count	Textile Laboratory Manual, W. Garner (1966) Vol. 5, Chapter 2. Analytical Method, I(c), Pg. 65-66
	b) barium activity number method	AATCC TM89-2019 < ***Excluding the following*** > Near infrared (NIR) spectroscopy
	- Water-alkali-soluble additives in cellulosic or synthetic textiles or textiles made from blends of such fibres	BS 4032: 1978
	- Dichloromethane soluble matter in textiles	WOOLMARK TWC-TM 136-2009
	- Absorbency of textile	AATCC TM79-2010e2(2018)e3 Option A

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Textiles and Garments 紡織品及成衣		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
General textiles and garments	Flammability tests :- - 45 degree angle test	ASTM D1230 – 22a CAN/CGSB-4.2 No. 27.5-2023 US 16 CFR Part 1610
	- Surface flash test	In-house Method Marks & Spencer Test method P117 (May 2003)
	- Vertical test	AS/NZS 1249: 2014 + Amdt 1:2014 + Amdt 2:2017 AS/NZS 1249: 2003 US 16 CFR Parts 1615 and 1616 (DOC FF 3 & 5) US Fed. Std. No. 191a, Method 5903-1978 BS 5438: 1976 BS 5722: 1984 BS 5651: 1978 Cl. 6.5.2 ISO 6941: 1984 + A1: 1992 ISO 6941: 2003 EN 14878: 2007/AC:2009 EN 1103: 2005 < ***Excluding the following*** > Dry clean method ISO 10047: 1993 In-house Method Marks & Spencer Test Method P116 (Aug 2006)
Other Materials- - Vinyl plastic film	- Flammability of vinyl plastic film	US 16 CFR Part 1611

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Textiles and Garments 紡織品及成衣		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Flammability tests :- (cont'd)	
Specific Products		
- Bed covers and pillows	- Ignitability by cigarette test	BS EN ISO 12952-1: 2010 EN ISO 12952-1: 2010 ISO 12952-1: 2010 **< *Excluding the following* >** for the above three standards Dry clean method (ISO 3175-3)
- Blanket	- Horizontal test	ASTM D 4151 - 23
- Curtains and drapes	- Vertical test	EN 1102: 1995 EN 1102: 2016
- Carpet and rugs	- Methenamine tablet test	CAN/CGSB-4.2 No. 27.6-2015 US 16 CFR Part 1630 (DOCFF 1) US 16 CFR Part 1631 (DOCFF 2)
- Camping tentage material	- Methenamine tablet and vertical test	US IFAI (Industrial Fabric Association International), CPAI-84 (1995)

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Textiles and Garments 紡織品及成衣		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Specific Products	Flammability tests :- (cont'd)	
- Upholstered composites for seating including the following materials :	- Ignitability by smouldering and flaming ignition source	The Furniture and Furnishings (Fire) (Safety) Regulations 1988 (Statutory Instrument 1988 No. 1324) with Amendments in 1989 (Statutory Instrument 1989 No. 2358) and in 1993 (Statutory Instrument 1993 No. 207) and in 2010 (Statutory Instrument 2010 No. 2205)
a) polyurethane foam in slab or cushion form		Schedule 1 Part I using test method BS 5852: Part 2: 1982 (Ignition Source 5)
b) non-foam filling materials singly		Schedule 2 Part I using test method BS 5852: Part 2: 1982 (Ignition Source 2)
c) pillows and cushions with primary covers		Schedule 2 Part III using test method BS 5852: Part 2: 1982 (Ignition Source 2)
d) interliner		Schedule 3 using test method BS 5852: Part 2: 1982 (Ignition Source 5)
e) visible part of upholstery		Schedule 4 Part I using test method BS 5852: Part 1: 1979 (Cigarette test)
f) non-visible part of upholstery		Schedule 4 Part II using test method BS 5852: Part 1: 1979 (Cigarette test)
g) visible cover		Schedule 5 Part I using test method BS 5852: Part 1: 1979 (Ignition Source 1)
h) non-visible cover		Schedule 5 Part III using test method BS 5852: Part 1: 1979 (Ignition Source 1)

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Textiles and Garments 紡織品及成衣		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Specific Products	Flammability tests :- (cont'd)	
- Upholstered furniture	- Ignitability by smouldering and flaming ignition source	EN 1021-1: 2014 EN 1021-2: 2014
	- Cigarette test	California Technical Bulletin 116 - 2019 State of California, Department of Consumer Affairs, Bureau of Home Furnishings and Thermal Insulation
- Materials used in upholstered furniture 軟體傢具	- Cigarette test 香烟測試	GB 17927.1-2011
- Materials used in upholstered furniture		California Technical Bulletin 117 – 2013 State of California, Department of Consumer Affairs, Bureau of Electronic & Appliance Repair Home Furnishings and Thermal Insulation
	- Cover fabric test	Section 1
	- Barrier materials test	Section 2
	- Resilient filling material test	Section 3
	- Decking material test	Section 4

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Textiles and Garments 紡織品及成衣		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
General textiles and garments	Strength tests :- - Bursting strength	BS EN ISO 13938-2: 2019 EN ISO 13938-2: 2019 ISO 13938-2: 2019
	- Bursting strength by diaphragm bursting method	ASTM D3786 / D3786M - 18 CAN/CGSB-4.2 No. 11.1-1994 WOOLMARK TWC-TM 29-2009
	- Pocket reinforcement	ASTM D7506 / D7506M - 17(2021)
	- Seam slippage	ASTM D434 - 95 BS EN ISO 13936-1: 2004 EN ISO 13936-1: 2004 ISO 13936-1: 2004 BS EN ISO 13936-2: 2004 EN ISO 13936-2: 2004 ISO 13936-2: 2004
	- Seam strength	ASTM D1683 / D1683M - 22 BS EN ISO 13935-2: 2014 EN ISO 13935-2: 2014 ISO 13935-2: 2014
	- Tearing strength by Single rip tear method	ASTM D2261-13(2017)e1 BS EN ISO 13937-2: 2000 EN ISO 13937-2: 2000 ISO 13937-2: 2000
	- Tearing strength by Tongue tear (wing-rip) method	ISO 13937-3: 2000 EN ISO 13937-3: 2000 BS EN ISO 13937-3: 2000

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Textiles and Garments 紡織品及成衣		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Strength tests :- (cont'd)	
General textiles and garments	- Tensile strength	AS 2001.2.3.1-2001 Rec:2016 AS 2001.2.3.2-2001 Rec:2016 CAN/CGSB-4.2 No.9.1-M90 CAN/CGSB-4.2 No.9.2-M90 JIS L1096-2010 (based on English Edition published in 2012-10) Section 8.14.1 ASTM D5034 - 21 ASTM D5035 - 11(2019) BS EN ISO 13934-1: 2013 EN ISO 13934-1: 2013 ISO 13934-1: 2013 BS EN ISO 13934-2: 2014 EN ISO 13934-2: 2014 ISO 13934-2: 2014 SASO-ISO-13934-1-2003
	- Tearing strength (Elmendorf)	AS 2001.2.8-2001 Rec:2016 ASTM D1424 - 21 CAN/CGSB-4.2 No .12.3-2005 JIS L1096-2010 (based on English Edition published in 2012-10) Section 8.17.4 Method D BS EN ISO 13937-1: 2000 EN ISO 13937-1: 2000 ISO 13937-1: 2000
	- Single thread strength	AS 2001.2.7-1987 Rec:2016 ASTM D2256 / D2256M - 21 CAN/CGSB-4.2 No. 9.4-M91 BS EN ISO 2062: 2009 EN ISO 2062: 2009 ISO 2062: 2009
Specific Products - Zippers	- Zipper strength	BS 3084: 2006 Cl. 5 AS 2332-2003 ASTM D2061 - 07(2021) < ***Excluding the following*** > Section 33-42, 43-51, 82-91 BS EN 16732-2015 Cl. 5

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests :-	
All toys, children's product surface coating materials	- Migration of soluble elements antimony, arsenic, chromium, selenium, cadmium, mercury, barium, lead	BS EN 71-3: 1995 incorporating Amd. No 1 and Corr. No. 1 BS 5665-3: 1995 incorporating Amd. No 1 and Corr. No. 1 EN 71-3: 1994 + A1: 2000 & AC: 2002 NF EN 71-3: 1995 + A1: 2000 ISO 8124-3: 2020 (for dewaxing: Method A) AS/NZS ISO 8124.3: 2003 AS/NZS ISO 8124.3: 2021 (for dewaxing: Method A)
	– 可遷移元素 鉛，鎘，汞，鉻，砷，銻，硒，銻	GB 6675-2003 + A1: 2005 4.3 and 附錄 C
All toys 玩具	- Migration of the elements Lead, cadmium, mercury, chromium, arsenic, barium, selenium, antimony – 可遷移元素 鉛，鎘，汞，鉻，砷，銻，硒，銻	GB 6675.1-2014 Cl. 5.3.3, 5.3.4 and 5.3.5 (only for migration of elements for toy cosmetics) *Test procedures for compliance testing:* GB 6675.4-2014
Plasticized materials of Toys 玩具中的塑化材料	- Phthalates: 鄰苯二甲酸酯 Dibutyl Phthalate (DBP) 鄰苯二甲酸二丁酯 Di-(2-ethylhexyl) phthalate (DEHP) 鄰苯二甲酸二(2-乙基)己酯 Benzyl Butyl Phthalate (BBP) 鄰苯二甲酸丁苄酯 Di-n-octyl phthalate (DnOP) 鄰苯二甲酸二正辛酯 Diisononyl phthalate (DINP) 鄰苯二甲酸二異壬酯 Diisodecyl phthalate (DIDP) 鄰苯二甲酸二異癸酯	GB 6675.1-2014 Cl. 5.3.7 *Test Procedures for Compliance testing:* GB/T 22048-2015 Method A (Internal standard calibration)

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests :- (cont'd)	
Plasticized materials of Toys 玩具中的塑化材料	- Phthalates: 鄰苯二甲酸酯 Di-iso-Butyl Phthalate (DIBP) 鄰苯二甲酸二異丁酯 Dibutyl Phthalate (DBP) 鄰苯二甲酸二丁酯 Di-(2-ethylhexyl) phthalate (DEHP) 鄰苯二甲酸二(2-乙基)己酯 Benzyl Butyl Phthalate (BBP) 鄰苯二甲酸丁苄酯 Di-n-octyl phthalate (DnOP) 鄰苯二甲酸二正辛酯 Diisononyl phthalate (DINP) 鄰苯二甲酸二異壬酯 Diisodecyl phthalate (DIDP) 鄰苯二甲酸二異癸酯	GB/T 22048-2022 Method A (Internal standard calibration)
Toys	- Migration of certain elements	BS EN 71-3: 2019+A1:2021 EN 71-3: 2019+A1:2021
Category III toy materials: Scraped-off materials	Aluminium, Antimony, Arsenic, Barium, Boron, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Mercury, Nickel, Selenium, Strontium, Tin and Zinc	Alternative method as documented in TC-093.TP (ICP-OES)
	Chromium (VI) Chromium (III) (by calculation)	Annex F (IC-ICP-MS)
	Organic Tin: Methyl tin, Dimethyl tin, Butyltin, Dibutyl tin, Tributyl tin, Tetrabutyl tin, n-Octyl tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin, Triphenyl tin	Annex G (GC-MS)

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests :- (cont'd)	
Toys	- Migration of certain elements	BS EN 71-3: 2019+A2:2024 EN 71-3: 2019+A2:2024
Category III toy materials: Scraped-off materials	Aluminium, Antimony, Arsenic, Barium, Boron, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Mercury, Nickel, Selenium, Strontium, Tin and Zinc	Alternative method as documented in TC-093.TP (ICP-OES)
	Chromium (VI) Chromium (III) (by calculation)	Annex F (IC-ICP-MS)
	Organic Tin: Methyl tin, Dimethyl tin, Butyltin, Dibutyl tin, Tributyl tin, Tetrabutyl tin, n-Octyl tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin, Triphenyl tin	Annex G (GC-MS) ***<Excluding the following>*** Clause G4.1.3 and G4.1.4

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests :- (cont'd)	
Tricycles intended for use by children 8 years or under – surface coatings		ANSI Z315.1-2012 Cl. 4.1.1 in conjunction with CPSIA Sec. 101(f) and 16 CFR 1303 and ASTM F963-23 Cl. 4.3.5.2 *Test procedures for compliance testing:-*
	- Total lead content	CPSC Test method: CPSC-CH-E1003-09.1 Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings, February 25, 2011
	- Soluble elements: Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	*Test procedures for compliance testing:-* ASTM F963-23 Cl. 8.3.2 – 8.3.4
Tricycles intended for use by children 8 years or under – substrates		ANSI Z315.1-2012 Cl. 4.1.1.1 in conjunction with CPSIA Sec. 101(a) *Test procedures for compliance testing:-*
	- Total lead content	CPSC Test Method: CPSC-CH-E1001-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Children's Metal Products (Including Children's Metal Jewelry), November 15, 2012 **<*Excluding the following*>** XRF spectrometry CPSC Test Method: CPSC-CH-E1002-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Non-Metal Children's Products, November 15, 2012 **<*Excluding the following*>** XRF spectrometry

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests :- (cont'd) 化學測試:-	
Baby walking frame 嬰兒學步車	- Migration of the elements Lead, cadmium, mercury, chromium, arsenic, barium, selenium, antimony - 可遷移元素 鉛, 鎘, 汞, 鉻, 砷, 鋇, 硒, 銻	GB 14749-2006 Cl. 4.1.2 & 4.1.3 *Test procedures for compliance testing:-* GB 6675-2003 附錄 C
Child tricycle 兒童三輪車	- Migration of the elements Lead, cadmium, mercury, chromium, arsenic, barium, selenium, antimony - 可遷移元素 鉛, 鎘, 汞, 鉻, 砷, 鋇, 硒, 銻	GB 14747-2006 Cl. 4.1.1 *Test procedures for compliance testing:-* GB 6675-2003 附錄 C
Wheeled child conveyance 兒童推車	- Migration of the elements Lead, cadmium, mercury, chromium, arsenic, barium, selenium, antimony - 可遷移元素 鉛, 鎘, 汞, 鉻, 砷, 鋇, 硒, 銻	GB 14748: 2006 Cl. 4.1.2 & 4.1.3 *Test procedures for compliance testing:-* GB 6675-2003 附錄 C

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests :- (cont'd)	
Toys – paint and similar surface-coating materials	- Total lead content	ASTM F963-23 Cl. 4.3.5.1 (1) *Test procedures for compliance testing:-* CPSC Test method: CPSC-CH-E1003-09.1 Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings, February 25, 2011
	- Migration of the elements Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	ASTM F963-23 Cl. 4.3.5.1 (2) *Test procedures for compliance testing:-* ASTM F963-23 Cl. 8.3.2 – 8.3.4
Toys – substrate materials (not including children's jewelry)	- Total lead content	ASTM F963-23 Cl. 4.3.5.2 (2) (a) *Test Procedures for Compliance testing:-* CPSC Test Method: CPSC-CH-E1001-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Children's Metal Products (Including Children's Metal Jewelry), November 15, 2012 ***<Excluding the following>*** XRF spectrometry CPSC Test Method: CPSC-CH-E1002-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Non-Metal Children's Products, November 15, 2012 ***<Excluding the following>*** XRF spectrometry
	- Migration of the elements Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	ASTM F963-23 Cl. 4.3.5.2 (2) (b) & (c) *Test procedures for compliance testing:-* ASTM F963-23 Cl. 8.3.5
Metallic toys or metallic toy components (not including children's jewelry)	- Extractable Cadmium	ASTM F963-23 Cl. 4.3.5.2 (2) (d) *Test Procedures for Compliance testing:-* ASTM F963-23 Cl. 8.3.5.5(3) and CPSC Test Method: CPSC-CH-E1004-11 Standard Operating Procedure for Determining Cadmium (Cd) Extractability from Children's Metal Jewelry, February 03, 2011

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests :- (cont'd)	
		ASTM F963-23 Cl. 4.3.8 *Test procedures for compliance testing:-*
Toys (including pacifiers, rattles, and teethers) for children 12 years of age and younger	- Dibutyl Phthalate (DBP) - Diisobutyl Phthalate (DIBP) - Di-n-pentyl phthalate (DPENP) - Di-n-hexyl phthalate (DHEXP) - Dicyclohexyl phthalate (DCHP) - Di-(2ethylhexyl) phthalate (DEHP) - Benzyl Butyl Phthalate (BBP) - Di-iso-nonyl phthalate (DINP)	CPSC Test Method: CPSC-CH-C1001-09.4 Standard Operating Procedure for Determination of Phthalates, January 17, 2018 in conjunction with US 16 CFR 1109.21 (b) & (c) for composite testing
		US Public Law 110 -314 Consumer Product Safety Improvement Act 2008 US 16 CFR Part 1303 *Test procedures for compliance testing:-*
Toys and other article intended for use by children – paint and other similar surface-coating materials	- Total lead content	CPSC Test method: CPSC-CH-E1003-09.1 Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings, February 25, 2011
		US Public Law 110 -314 Consumer Product Safety Improvement Act 2008 *Test Procedures for Compliance testing*:
Children's metal products	- Total lead content	CPSC Test Method: CPSC-CH-E1001-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Children's Metal Products (Including Children's Metal Jewelry), November 15, 2012 **<*Excluding the following*>** XRF spectrometry
		Test Procedures for Compliance testing:
Children's non-metal products	-Total lead content	CPSC Test Method: CPSC-CH-E1002-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Non-Metal Children's Products, November 15, 2012 **<*Excluding the following*>** XRF spectrometry

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests :- (cont'd)	
Toys and child care articles	- Dibutyl Phthalate (DBP) - Diisobutyl Phthalate (DIBP) - Di-n-pentyl phthalate (DPENP) - Di-n-hexyl phthalate (DHEXP) - Dicyclohexyl phthalate (DCHP) - Di-(2ethylhexyl) phthalate (DEHP) - Benzyl Butyl Phthalate (BBP) - Di-iso-nonyl phthalate (DINP)	US 16 CFR 1307 *Test procedures for compliance testing:-* CPSC Test Method: CPSC-CH-C1001-09.4 Standard Operating Procedure for Determination of Phthalates, January 17, 2018 in conjunction with US 16 CFR 1109.21 (b) & (c) for composite testing
Plasticized Materials of Child Tricycle, Wheeled Child Conveyance and Baby Walking Frame 兒童三輪車, 兒童推車和嬰兒學步車中的塑化材料	- Phthalates: 鄰苯二甲酸酯 Dibutyl Phthalate (DBP) 鄰苯二甲酸二丁酯 Bis (2-ethylhexyl) phthalate (DEHP) 鄰苯二甲酸二(2-乙基)己酯 Benzyl Butyl Phthalate (BBP) 鄰苯二甲酸丁苄酯 Di-n-octyl phthalate (DnOP) 鄰苯二甲酸二正辛酯 Di-iso-nonyl phthalate (DINP) 鄰苯二甲酸二異壬酯 Di-iso-decyl phthalate (DIDP) 鄰苯二甲酸二異癸酯	GB/T 22048 – 2015 Method A (Internal standard calibration)
Plasticized Materials of Child Tricycle, Wheeled Child Conveyance and Baby Walking Frame 兒童三輪車, 兒童推車和嬰兒學步車中的塑化材料	- Phthalates: 鄰苯二甲酸酯 Di-iso-Butyl Phthalate (DIBP) 鄰苯二甲酸二異丁酯 Dibutyl Phthalate (DBP) 鄰苯二甲酸二丁酯 Di-(2-ethylhexyl) phthalate (DEHP) 鄰苯二甲酸二(2-乙基)己酯 Benzyl Butyl Phthalate (BBP) 鄰苯二甲酸丁苄酯 Di-n-octyl phthalate (DnOP) 鄰苯二甲酸二正辛酯 Diisononyl phthalate (DINP) 鄰苯二甲酸二異壬酯 Diisodecyl phthalate (DIDP) 鄰苯二甲酸二異癸酯	GB/T 22048-2022 Method A (Internal standard calibration)

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests :- (cont'd)	
Coloured toys	- Colour fastness tests	German Method Section 64 LFGB B82.92-3: Dec. 2011 German Method Section 64 LFGB B82.02-13: Dec. 2011 DIN 53160-1: 2010 DIN 53160-2: 2010
Liquid paint, surface coating, PVC/plastics & metals	- Cadmium	Regulation (EC) No. 1907/2006 on REACH Annex XVII (Cadmium) as amended by Commission Regulation (EU) No. 835/2012 and Commission Regulation (EU) 2016/217 *Test Procedures for Compliance testing*: In House method TC008.TP

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests :- (cont'd)	
		Japan Toy Safety Standard ST 2016, English version, Fourth edition (October 4, 2022), Part 3
All toys' materials		Cl. 1.1 *Test Procedures for Compliance testing*:
	- Colouring matters	Cl. 2.1
Toys that are made of materials which are mainly composed of polyethylene or polyvinyl chloride (excluding parts on which paint coating is applied)		Cl. 1.2 *Test Procedures for Compliance testing*:
	- Consumption of potassium permanganate and residue on evaporation	Cl. 1.2.1 & Cl. 2.2 Cl. 1.2.1 & Cl. 2.3
	- Heavy metals	Cl. 1.2.1 & Cl. 2.4
	- Arsenic	Cl. 1.2.1 & Cl. 2.5
	- Cadmium (excluding materials mainly composed of polyethylene)	Cl. 1.2.1 & Cl. 2.6
Decalcomania, folded paper and rubber-made toys (excluding rubber pacifiers)		Cl. 1.3 *Test Procedures for Compliance testing*:
	- Heavy metals	Cl. 1.3.1 & Cl. 2.4
	- Arsenic	Cl. 1.3.1 & Cl. 2.5
Vinyl chloride resin coating		Cl. 1.4 & Cl. 1.5 *Test Procedures for Compliance testing*:
	- Consumption of potassium permanganate	Cl. 1.4.1 & Cl. 2.2
	- Residue after evaporation	Cl. 1.4.1 & Cl. 2.3
	- Heavy metals: 8 elements (antimony, arsenic, barium, cadmium, chromium, lead, mercury and selenium)	Cl. 1.5.1 & Cl. 2.7 (1) ①, (2) & (3)
The Paint coating applied to the body or the components of the toys (excluding the printing ink used for paper containers)		Cl. 1.5 *Test Procedures for Compliance testing*:
	- Heavy metals: 8 elements (antimony, arsenic, barium, cadmium, chromium, lead, mercury and selenium)	Cl. 1.5.1 & Cl. 2.7 (1) ①, (2) & (3)
Textile products used for toys		Cl. 1.6 *Test Procedures for Compliance testing*:
	- Free formaldehyde	Cl. 1.6 & Cl. 2.8 ***<Excluding the following>*** Confirmation test by HPLC

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests :- (cont'd)	
		Japan Toy Safety Standard ST 2016, English version, Fourth edition (October 4, 2022), Part 3
Ink and the like used for the graphic instruments that are provided with the toys such as pencils, ball-point pens, markers, crayons, pastels, water colours, chalks, etc.	- Colouring matters - Heavy metals: 8 elements, (antimony, arsenic, barium, cadmium, chromium, lead, mercury and selenium)	Cl. 1.8 *Test Procedures for Compliance testing*: Cl. 1.8.1 & Cl. 2.1 Cl. 1.8.2 & Cl. 2.7 (1) ②, (2) & (3)
Rubber pacifiers	- Material test: Cadmium and Lead - Dissolution test: Phenol, Formaldehyde, Zinc, Heavy metals and Residue on evaporation	Cl. 1.10 *Test Procedures for Compliance testing*: Cl. 2.11.1 Cl. 2.11.2
Metals used for toy (neither painted nor covered)	- Lead	Cl. 1.11 *Test Procedures for Compliance testing*: Cl. 2.12 & 2.7 (2) & (3)

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests :- (cont'd)	
		Specifications and Standards for Foods, Food Additives, etc, Under the Food Sanitation Law (ABSTRACTS) JETRO April 2011, Part V "TOYS" *Test procedures for compliance testing:-* Specification, Standards and Testing Methods for Foodstuffs, Implements, Containers and Packaging, Toys, Detergents, January 2009
Decals	Heavy metals, Arsenic	Part III A-1 & Part II B-4 Part III A-1 & Part II B-7
Origami paper	Heavy metals, Arsenic	Part III A-2 & Part III A-1 (2)a & Part II B-4 Part III A-2 & Part III A-1 (2)b & Part II B-7
Rubber pacifiers	Material testing: Cadmium and Lead Elution testing: Phenol, Formaldehyde, Zinc, Heavy metal, Evaporation residue	 Part III A-3 & Part II D-3(2)a & Part II B-9 Part III A-3 & Part II D-3(2)b & Part II B-8 Phenol Part III A-3 & Part II D-3(2)b & Part II B-8 Formaldehyde Part III A-3 & Part II D-3(2)b & Part II B-9 Part III A-3 & Part II D-3(2)b & Part II B-4 Part III A-3 & Part II D-3(2)b & Part II B-5
Coating film of toys	Soluble heavy metal (Lead, Cadmium and Arsenic)	Part III A-4 & Part II B-9
Coating film coated by using polyvinyl chloride	Potassium permanganate consumption Evaporation residue	Part III A-5 & Part II B-1 Part III A-5 & Part II B-5
Parts (excluding coating film) manufactured using materials mainly of polyvinyl chloride	Potassium permanganate consumption Heavy metals, Cadmium, Evaporation residue, Arsenic	Part III A-6 & Part III A-5(2)a & Part II B-1 Part III A-6 & Part III A-1(2)a & Part II B-4 Part III A-6 & Part II B-9 Part III A-6 & Part III A-5(2)b & Part II B-5 Part III A-6 & Part III A-1(2)b & Part II B-7
Parts (excluding coating film) manufactured using materials mainly of polyethylene	Potassium permanganate consumption Heavy metals, Evaporation residue, Arsenic	Part III A-9 & Part III A-5(2)a & Part II B-1 Part III A-9 & Part III A-1(2)a & Part II B-4 Part III A-9 & Part III A-5(2)b & Part II B-5 Part III A-9 & Part III A-1(2)b & Part II B-7

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests :- (cont'd)	
		Specifications and Standards for Foods, Food Additives, etc, Under the Food Sanitation Law (ABSTRACTS) JETRO April 2011, Part V "TOYS" *Test procedures for compliance testing:-* Specification, Standards and Testing Methods for Foodstuffs, Implements, Containers and Packaging, Toys, Detergents, January 2009
Metallic accessories and toys that might be swallowed by infants and small children	Soluble Lead	Part III A-10 & Part II B-9
Synthetic resin-based coloring agents in the manufacture of toys	Colouring agent	Part III B ***<Excluding the following>*** Confirmation of colouring agents which are listed in Table 1 of the Implementation Regulation of the Food Sanitation Law

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Toy	Electrical tests :-	
- Battery operated toy for children up to and including 36 months of age	- Safety requirements and test methods	Commonwealth of Australia Trade Practices Act 1974 Consumer Protection Notice No. 14 of 2003 and amendments up to Consumer Protection Notice No. 1 of 2005 ***in conjunction with*** AS/NZS ISO 8124.1: 2002 Annex A with modifications New Zealand Product Safety Standads (Children's Toys) Regulations 2005 (SR 2005/236) (reprinted as at 12 August 2005) ***in conjunction with*** AS/NZS ISO 8124.1: 2002 Annex A with modifications
- Battery operated toy	- Safety requirements and test methods	ASTM F963-17 Cl. 4.25 ASTM F963-23 Cl. 4.25
- Electrically operated toy ***<Excluding the following>*** Toy steam engine	- Safety requirements and test methods	16 CFR 1505

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Toy (cont'd)	Electrical tests :-	
- Electric toy	- Safety requirements and test methods	IEC 62115: 2003 + A1: 2004 + A2: 2010 MS 62115: 2008 MS IEC 62115: 2017 EN 62115: 2005 + A12: 2015 BS EN 62115: 2005 + A12: 2015 ***<Excluding the following >*** for the above two standards Annex ZB and ZC IEC 62115: 2017 + Corr. 1: 2019 EN IEC 62115: 2020 + A11: 2020 BS EN IEC 62115: 2020 + A11: 2020 + Corr: 2020 AS/NZS 62115: 2018 + A1: 2021 ***<Excluding the following >*** for the above four standards Cl. 19.2 (electric toys incorporating light emitting diodes or UV emitting lamps), 19.3, Annex D, E(19.E.2 and 19.E.4) and I
- Electric toy	- Safety requirements and test methods	GB 6675.1-2014 Cl.5.4, and GB 19865-2005 + Amendment 1
- 電玩具	- 安全規定及測試方法	GB 6675.1-2014 Cl.5.4, 及 GB 19865-2005 + 第 1 號修改單
- Electrically powered infant swing	- Safety requirements and test methods	ASTM F2088-21 Cl. 6.1 and 7.1 ASTM F2088-22 Cl. 6.1 and 7.1

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Toy (cont'd)	Flammability tests :-	
	- Safety requirements and test methods	16 CFR Part 1500.44 and 16 CFR Part 1610
	- Safety requirements and test methods	ASTM F963-17 Cl. 4.2 ASTM F963-23 Cl. 4.2
	- Safety requirements and test methods	EN 71-2: 2011 + A1: 2014 EN 71-2: 2020 BS EN 71-2: 2011 + A1: 2014 BS EN 71-2: 2020 **<*Excluding the following*>** for the above four standards Tests for flammable gas, extremely flammable liquid, highly flammable liquid, and flammable gel
	- Safety requirements and test methods	ISO 8124-2: 2014 ISO 8124-2: 2023 **<*Excluding the following*>** for the above two standards Tests for flammable gas, highly flammable liquid, extremely flammable liquid and flammable gel
	- Safety requirements and test methods	AS/NZS ISO 8124.2: 2016 AS/NZS ISO 8124.2: 2023 **<*Excluding the following*>** for the above two standards Tests for flammable gas, extremely flammable liquid highly flammable liquid and flammable gel
	- Safety requirements and test methods	MS ISO 8124-2: 2016 **<*Excluding the following*>** Tests for flammable gas, highly flammable liquid, highly flammable solid and flammable gel

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Toy (cont'd) 玩具 (續上)	Flammability tests :- 燃燒性能測試	
	- Safety requirements and test methods	GB 6675.1-2014 Cl. 5.2.1 and GB 6675.3-2014 ***<Excluding the following >*** Tests for flammable gas, highly flammable liquid, highly flammable solid and flammable gels
	- 安全規定及測試方法	GB 6675.1-2014 Cl. 5.2.1 及 GB 6675.3-2014 ***<不包含>*** 易燃氣體、高度易燃液體、高度易燃固體、易燃凝膠體
	- Safety requirements and test methods	Japan Toy Safety Standard ST2016 Fourth Edition (October 4, 2022) Part 2 (based on English version provided by JTA on December 3 2019 and translation of revision notice on October 4, 2022) ***<Excluding the following>*** Tests for flammable gas, extremely flammable liquid, highly flammable liquid and flammable liquid

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Microbiological tests :-	
Toy cosmetics	Microbiological examination of non-sterile products:	The European Cosmetic Regulation 1223/2009/EC (Annex I Part A Item 3) and The SCCS Notes of Guidance for the Testing of Cosmetics Ingredients and Their Safety Evaluation, 12th Revision, 15 May 2023, SCCS/1647/22, Appendix 9: Guidelines on Microbiological Quality of the Finished Cosmetic Product
	Microbial enumeration tests	European Pharmacopoeia 11.2th edition (2023) Chapter 2.6.12 (01/2021:20612) British Pharmacopoeia (2023), App. XVI B-2 BS EN ISO 21149: 2017/Amd 1: 2022 (Pour Plate Method only) & ISO 16212: 2017/Amd 1: 2022 (Pour Plate Method only)
	Test for specified microorganisms	European Pharmacopoeia 11.2th edition (2023) Chapter 2.6.13 (01/2021:20613) British Pharmacopoeia (2023), App. XVI B-1 ISO 22717:2015/Amd 1: 2022, ISO 22718:2015/Amd 1: 2022 & BS EN ISO 18416:2015/Amd 1: 2022 & ISO 21150:2015/Amd 1: 2022
	Efficacy of Antimicrobial Preservation (Challenge Test)	European Pharmacopoeia 11.2th edition (2023) Chapter 5.1.3 (04/2022: 50103) British Pharmacopoeia (2023), App. XVI C (Criteria B) (Count by Pour Plate Method)

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Microbiological tests :- (cont'd)	
Toy	Microbiological examination of non- sterile products:	EC type approval protocol No. 2 (European Co- ordination of Notified Bodies NB-TOYS/2021-053 under the Safety of Toys Directive) Microbiological safety of toys containing aqueous media REV 4 (January 2022)
		Test Procedures for compliance testing:
	Microbial enumeration tests	European Pharmacopoeia 11.2th edition (2023) Chapter 2.6.12 (01/2021:20612) EN ISO 21149: 2017/Amd 1: 2022 (Pour Plate Method only) & ISO 16212: 2017/Amd 1: 2022 (Pour Plate Method only)
	Test for specified microorganisms	European Pharmacopoeia 11.2th edition (2023) Chapter 2.6.13 (01/2021:20613) ISO 22717:2015/Amd 1: 2022, ISO 22718:2015/Amd 1: 2022 & EN ISO 18416:2015/Amd 1: 2022, ISO 21150:2015/Amd 1: 2022 & EN ISO 18415: 2017/Amd 1: 2022
	Efficacy of Antimicrobial Preservation (Challenge Test)	European Pharmacopoeia 11.2th edition (2023) Chapter 5.1.3 (04/2022: 50103)

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Microbiological tests :- (cont'd)	
Toy cosmetics, liquids, pastes, putties, gels, and powders < ***Excluding the following*** > - avian feather products	Cleanliness of Materials	ASTM F963-17 Cl. 4.3.6.3 and 8.4.1 *Test Procedures for compliance testing:*
	- Microbial Enumeration Tests	USP< 61 > 35th edition (2012) United States Pharmacopeia – National Formulary (USP–NF) 2023, Issue 1, Chapter <61>
	- Tests for Specified Microorganisms	USP< 62 > 35th edition (2012) United States Pharmacopeia – National Formulary (USP–NF) 2023, Issue 1, Chapter <62>
Toy cosmetics, liquids, pastes, putties, gels, and powders	Preservative effectiveness	ASTM F963-17 Cl. 4.3.6.4 and 8.4.2.2 & 8.4.2.3 *Test Procedures for compliance testing:* USP< 51 > 35th edition (2012) United States Pharmacopeia – National Formulary (USP–NF) 2023, Issue 1, Chapter <51>
Products for babies that are put in the mouth when used and that contain a filling	Sterility Tests	Canada Consumer Product Safety Act (CCPSA) Schedule 2 Item 4 *Test Procedures for compliance testing:* United States Pharmacopeia – National Formulary (USP–NF) 2023, Issue 1, Chapter <71>

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Physical and mechanical tests :-	
Toy	- Safety requirements and test methods	ISO 8124-1: 2022 **<*Excluding the following*>** Cl. 4.28 and 4.29(f) ISO 8124-1: 2018 + Amd. 1: 2020 and Amd. 2: 2020 **<*Excluding the following*>** Cl. 4.28 and 4.29(f)
Toy	- Safety requirements and test methods	AS/NZS ISO 8124.1: 2023 **<*Excluding the following*>** Cl. 4.28 and 4.29(f) AS/NZS ISO 8124.1: 2019 + Amd. 1: 2020 and Amd. 2: 2020 **<*Excluding the following*>** Cl. 4.28 and 4.29(f) AS/NZS ISO 8124.1: 2002 + A1: 2007 + A2: 2009+ A3: 2009 **<*Excluding the following*>** Cl. 4.27
Toy	- Safety requirements and test methods	MS ISO 8124-1: 2016 **<*Excluding the following*>** Cl. 4.28 and 4.29(f)
	- Graphical symbol for age warning labeling	MS 1774-6: 1998
Toy	- Safety requirements and test methods	Japan Toy Safety Standard ST2016 Fourth Edition (October 4, 2022) Part 1 (based on English version provided by JTA on December 3, 2019 and translation of revision notice on October 4, 2022) **<*Excluding the following*>** Cl. 4.23(e)

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Physical and mechanical tests :- 機械及物理性能測試	
Toy 玩具	- Safety requirements and test methods	GB 6675.1-2014 Cl. 5.1.1 to 5.1.11, and GB 6675.2-2014 + Amendment 1 ***<Excluding the following>*** Cl. 4.27 and 4.28.2(e)
	- 安全規定及測試方法	GB 6675.1-2014 Cl. 5.1.1 至 5.1.11, 及 GB 6675.2-2014 + 第 1 號修改單 ***<不包括>*** Cl. 4.27 and 4.28.2(e)
	- Instructions for use of toys	GB 5296.5-2006
	- 玩具使用說明	GB 5296.5-2006
- Toy scooter 玩具滑板車	- Safety requirements and test methods	GB 6675.12-2014
	- 安全規定及測試方法	GB 6675.12-2014
Toy	- Safety requirements and test methods	NF EN 71-1: 2014 ***<Excluding the following>*** Cl. 4.18 (test to EN 15649-3) , 4.20.2.11 EN 71-1:2014 + A1: 2018 BS EN 71-1:2014 + A1: 2018 ***<Excluding the following>*** for the above two standards Cl. 4.18 (test to EN 15649-3) , 4.20.2.11

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Physical and mechanical tests :-	
Toy	- Physical and mechanical tests	ASTM F963-17
	- Safety requirements	Cl. 4.1, 4.3.7, 4.5 to 4.24, 4.26 to 4.41 ***<Excluding the following>*** Cl. 4.1 (reprocessed materials test to 4.3.1), 4.5.1.6 (percussion caps)
	- Labeling requirements	Section 5
	- Instructional literature	Section 6
	- Producer's markings	Section 7
	- Test methods	Section 8
	- Physical and mechanical tests	ASTM F963-23
	- Safety requirements	Cl. 4.1, 4.3.7, 4.5 to 4.24, 4.26 to 4.41 ***<Excluding the following>*** Cl. 4.1 (reprocessed materials test to 4.3.1), 4.5.1.6 (percussion caps)
	- Labeling requirements	Section 5
	- Instructional literature	Section 6
	- Producer's markings	Section 7
	- Test methods	Section 8
	- Safety requirements and test methods	Federal Hazardous Substances Act Regulations 16 CFR 1500.48 16 CFR 1500.49 16 CFR 1500.50 16 CFR 1500.51 16 CFR 1500.52 16 CFR 1500.53 16 CFR 1501 16 CFR 1510

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Physical and mechanical tests :-	
- Ball intended for use by children under 3 years of age	- Identification of mechanical hazard of small balls	16 CFR 1500.18(a)(17)
- Clacker ball	- Identification of banned toys	16 CFR 1500.18(a)(7) in conjunction with test methods specified in 16 CFR 1500.86(a)(5)
- Dive stick	- Identification of banned toys	16 CFR 1500.18(a)(19) in conjunction with test methods specified in 16 CFR 1500.86(a)(7) or 16 CFR 1500.86(a)(8)
- Marble, small ball, balloon and other small parts intended for use by children above 3 years of age	- Determination of misbranded toys	16 CFR 1500.19
- Toy gun	- Marking for toy guns	15 CFR 1150

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Physical and mechanical tests :-	
- Toy for children up to and including 36 months of age	- Safety requirements and test methods	Commonwealth of Australia Trade Practices Act 1974 Consumer Protection Notice No. 14 of 2003 and amendments up to Consumer Protection Notice No. 1 of 2005 ***in conjunction with*** AS/NZS ISO 8124.1: 2002 with modifications New Zealand Product Safety Standads (Children's Toys) Regulations 2005 (SR 2005/236) (reprinted as at 12 August 2005) ***in conjunction with*** AS/NZS ISO 8124.1: 2002 with modifications Australia Consumer Goods (Toys for Children up to and including 36 Months of Age) safety standard 2023 ***in conjunction with*** AS/NZS ISO 8124.1: 2023 with modifications, ISO 8124-1: 2022 with modifications, EN 71-1: 2014 + A1: 2018, ASTM F963-17 with modifications or AS/NZS 62115: 2018 with modifications
- Aquatic toy	- Safety requirements and test methods	Australian Consumer Goods (Aquatic toys) Safety Standard 2020 ***in conjunction with*** AS/NZS ISO 8124-1: 2019 Cl. 4.20 and Annex B.2.6, or ISO 8124-1: 2018 Cl. 4.20 and Annex B.2.6
- Toy Containing Magnets	- Safety requirements and test methods	Australian Consumer Goods (Toys Containing Magnets) Safety Standard 2020 ***in conjunction with*** AS/NZS ISO 8124-1: 2019 Cl. 4.1, 4.31, EN 71-1: 2014+A1:2018 Cl. 4.23, ISO 8124-1: 2018 Cl. 4.1 and 4.31, or ASTM F963-17 section 4.38, 8.5 and 8.9
- Projectile toy	- Safety requirements and test methods	Australian Consumer Goods (Projectile toys) Safety Standard 2020 ***in conjunction with*** AS/NZS ISO 8124-1: 2019 Cl. 4.18, 4.19, EN 71-1: 2014 + A1: 2018 Cl. 4.11(e) & 4.17, ISO 8124-1: 2018 Cl. 4.18 and 4.19, or ASTM F963-17 Section 4.21

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Children's products	Physical and mechanical tests :-	
- Babies' dummy / Pacifier / Soother	- Safety requirements and test methods	AS 2432: 2015 **<*Excluding the following*>** Section 4 BS EN 1400: 2013 + A2: 2018 EN 1400: 2013 + A2: 2018 **<*Excluding the following*>** for the above two standards Section 10 16 CFR 1511 Competition and Consumer Act 2010 Consumer Goods (Babies' Dummies and Dummy Chains) Safety Standard 2017 Section 8 or Section 9 ***in conjunction with*** (a) AS 2432: 2015 Section 5, 6, 7 and 8, or (b) EN 1400: 2013 + A1: 2014 Section 5, 6, 7, 8, 9, 12 and 13 Pacifiers Regulation (SOR/2016-184) ***in conjunction with*** Health Canada Product Safety Reference Manual Book 5 – Laboratory Policies and Procedures Part B: Test Method Section Method M-09 (2023)

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道五百七十六號製衣中心二字樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Children's products (cont'd) 兒童用品(續上)	Physical and mechanical tests :-	
- Dummy chain / Soother holder	- Safety requirements and test methods	BS EN 12586: 2007 + A1: 2011 EN 12586: 2007 + A1: 2011 Competition and Consumer Act 2010 Consumer Goods (Babies' Dummies and Dummy Chains) Safety Standard 2017 Section 10 ***in conjunction with*** EN 12586: 2007 + A1: 2011 Section 5 and 6
- Child use cutlery and feeding utensil	- Safety requirements and test methods	BS EN 14372: 2004 EN 14372: 2004 **<*Excluding the following*>** for the above two standards Cl. 5.4
- Child use drinking equipment	- Safety requirements and test methods	BS EN 14350-1: 2004 EN 14350-1: 2004 BS EN 14350: 2020 + A1: 2023 EN 14350: 2020 + A1: 2023 **<*Excluding the following*>** for the above two standards Cl. 8
- Baby walking frame 嬰兒學步車	- Safety requirements and test methods 安全要求及測試方法	GB 14749: 2006* Cl. 4.1.1, 4.3 to 4.11
- Child tricycle 兒童三輪車	- Safety requirements and test methods 安全要求及測試方法	GB 14747: 2006* Cl. 4.1.2, 4.2 to 4.6
- Wheeled child conveyance 兒童推車	- Safety requirements and test methods 安全要求及測試方法	GB 14748: 2006* Cl. 4.1.1, 4.3 to 4.17

* Physical and mechanical tests are carried out at Unit 7-10, Ground Floor, Trans Asia Centre, 18 Kin Hong Street, Kwai Chung, New Territories, Hong Kong.
機械及物理性能測試在香港新界葵涌健康街 18 號恆亞中心地下 7-10 號單位進行。

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
Unit A, 9/F, Hang Cheong Factory Building, 1 Wing Ming Street, Kowloon, Hong Kong
香港九龍永明街一號恆昌工廠大廈九樓 A 室

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Safety tests :-	
Air conditioner (with rated voltage not more than 250 V for single-phase appliance and rated cooling capacity not more than 27000 Btu/hr) ***<Excluding the following>*** product with heat pump	- Compliance inspection and safety tests	EN 60335-2-40: 2003 + A1: 2006 + A2: 2009 + A11: 2004 + A12: 2005 +A13: 2012 IEC 60335-2-40: 2002 + A1: 2003 + A2: 2005 ***< Excluding the following >*** for the above two standards Cl. 15.1 (tests for IPX1 to IPX4, IPX6, IPX8), 22.1 (tests for IP5X, IP6X), 22.32 (oxygen bomb test), 22.46, 22.113, 22.114, 22.115, 22.116, 22.117 and 22.118; Annexes DD and GG (flammable refrigerant)

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
Unit A, 9/F, Hang Cheong Factory Building, 1 Wing Ming Street, Kowloon, Hong Kong
香港九龍永明街一號恆昌工廠大廈九樓 A 室

Electrical and Electronic Products 電氣及電子產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Electrical accessory	Safety tests :-	
- Switch for household and similar fixed electrical installation (up to 45A single phase)	- Compliance inspection and safety tests	SS 227 Part 1: 2000 < ***Excluding the following*** > Cl. 15.2, chemical analysis for Cl. 22.5 and 22.6 BS EN 60669-1: 2018 EN 60669-1: 2018 IEC 60669-1: 2017 MS IEC 60669-1:2012 < ***Excluding the following*** > for the above four standards Cl. 15.2, 19.3, chemical analysis for Cl. 22.5 and 22.6
- Electronic switch for household and similar fixed electrical installation (up to 25A single phase)	- Compliance inspection and safety tests	BS EN 60669-2-1: 2004 + A12: 2010 EN 60669-2-1: 2004 + A1: 2009 + A12: 2010 IEC 60669-2-1: 2002 + A1: 2008 + A2: 2015 MS IEC 6669-2-1: 2012 < ***Excluding the following*** > for the above four standards Cl. 17, 18, 19, 26, 101 and 102
- Isolating switch for household and similar fixed electrical installation (up to 45A single phase)	- Compliance inspection and safety tests	BS EN 60669-2-4: 2005 EN 60669-2-4: 2005 IEC 60669-2-4: 2004 < ***Excluding the following*** > for the above three standards Cl. 16.101 and 18.101
- Time-delay switch for household and similar fixed electrical installation (up to 45A single phase)	- Compliance inspection and safety tests	BS EN 60669-2-3: 2006 EN 60669-2-3: 2006 IEC 60669-2-3: 2006 MS IEC 60669-2-3: 2012

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
Flat A, 2/F, Joy Fat Factory Building, 483F-G Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道四百八十三號 F-G 二樓 A 室

Electrical and Electronic Products 電氣及電子產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Safety tests :	
Battery		
- Primary battery		IEC 60086-5: 2016*
	- Testing and requirements	Cl. 6
	- Instructions for use	Cl. 8
	- Marking	Cl. 9
- Primary and secondary lithium cell and battery		IEC 62281:2012*
	- Test methods and requirements	Cl. 6
	- Marking	Cl. 9
- Secondary battery containing alkaline or other non-acid electrolytes		IEC 62133: 2012
	- Specific requirements and tests	7 and 8 < ***Excluding the following*** > Clause 8.3.9
	- Marking	10
- Primary lithium metal and lithium ion cell and small battery	- Altitude simulation - Thermal test - Vibration - Shock - External short circuit - Impact - Forced discharge	UN Recommnendations on the Transport of Dangerous Goods, Manual of Tests and Criteria (2015) + Corrigendum: 2016* Section 38.3
- Rechargeable lithium metal and lithium ion cell and small battery	- Altitude simulation - Thermal test - Vibration - Shock - External short circuit - Impact - Overcharge - Forced discharge	UN Recommnendations on the Transport of Dangerous Goods, Manual of Tests and Criteria (2015) + Corrigendum: 2016* Section 38.3

* Vibration test and shock test are conducted at 2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
Workshop No. 3, G/F, World-wide Industrial Centre, 43-47 Shan Mei Street, Fotan, Shatin, N.T., Hong Kong
香港新界沙田火炭山尾街 43-47 號環球工業中心地下 3 號

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	EMC tests :- Emission tests	
Encoder and decoder for emergency alert system	- Measurement of radiated emission - 9 kHz to 40 GHz - Measurement of conducted emission - 150 kHz to 30 MHz	47 CFR Part 11 Subpart B in conjunction with 47 CFR Part 15 Subpart A and B using test methods specified in ANSI C63.4-2014 and ANSI C63.4a-2017
Unintentional radiator	- Measurement of radiated emission - 9 kHz to 40 GHz - Measurement of conducted emission - 150 kHz to 30 MHz	47 CFR Part 15 Subpart A and B using test methods specified in ANSI C63.4-2014 and ANSI C63.4a-2017
Intentional radiator	- Measurement of radiated emission - 9 kHz to 40 GHz - Measurement of conducted emission - 150 kHz to 30 MHz	47 CFR Part 15 Subpart A and C using test methods specified in ANSI C63.10-2013
Unlicensed personal communication systems device	- Measurement of radiated emission - 9 kHz to 40 GHz - Measurement of conducted emission - 150 kHz to 30 MHz	47 CFR Part 15 Subpart A and D using test methods specified in ANSI C63.17-2013
Unlicensed national information infrastructure device without dynamic frequency selection	- Measurement of radiated emission - 9 kHz to 40 GHz - Measurement of conducted emission - 150 kHz to 30 MHz	47 CFR Part 15 Subpart A and E using test methods specified in ANSI C63.10-2013
Unlicensed national information infrastructure device with dynamic frequency selection	- Measurement of radiated emission - 9 kHz to 40 GHz - Measurement of conducted emission - 150 kHz to 30 MHz	47 CFR Part 15 Subpart A and E using test methods specified in FCC KDB Publication 905462 D02 UNII DFS Compliance Procedures New Rules v02

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
Workshop No. 3, G/F, World-wide Industrial Centre, 43-47 Shan Mei Street, Fotan, Shatin, N.T., Hong Kong
香港新界沙田火炭山尾街 43-47 號環球工業中心地下 3 號

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	EMC tests :- Emission tests	
Consumer ISM equipment	- Measurement of radiated emission - 9 kHz to 40 GHz - Measurement of conducted emission - 9 kHz to 30 MHz	47 CFR Part 18 using test methods specified in FCC/OET MP-5: 1986
	- Measurement of terminal disturbance voltages - 9 kHz to 30 MHz - Measurement of electromagnetic radiation disturbance - 9 kHz to 18 GHz	AS/NZS CISPR 11:2011 CISPR 11:2009 + A1:2010 EN 55011: 2009 + A1:2010
	- Measurement of terminal disturbance voltages - 9 kHz to 30 MHz - Measurement of electromagnetic radiation disturbance - 9 kHz to 18 GHz	AS CISPR 11:2017 + A1: 2020 CISPR 11: 2015 + A1: 2016 + A2: 2019 EN 55011: 2016 + A1: 2017 + A11: 2020

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
Workshop No. 3, G/F, World-wide Industrial Centre, 43-47 Shan Mei Street, Fotan, Shatin, N.T., Hong Kong
香港新界沙田火炭山尾街 43-47 號環球工業中心地下 3 號

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	EMC tests :- Emission tests	
Licence-exempt radio apparatus: category I equipment	- Measurement of radiated emission - 9 kHz to 40 GHz - Measurement of conducted emission - 150 kHz to 30 MHz	RSS-210 Issue 11, June 2024 ***<Excluding the following>*** Annexes E, F, J and K in conjunction with RSS-Gen Issue 5, April 2018 + Amendment 1 (March 2019) + Amendment 2 (February 2021) using test method specified in ANSI C63.10: 2020+Cor1: 2023
Licence-exempt radio apparatus: category II equipment	- Measurement of radiated emission - 9 kHz to 40 GHz - Measurement of conducted emission - 150 kHz to 30 MHz - Measurement of conducted emission at antenna terminal - 9 kHz to 40 GHz	RSS-310 Issue 5, January 2020 in conjunction with RSS-Gen Issue 5, April 2018 + Amendment 1 (March 2019) + Amendment 2 (February 2021) using test methods specified in ANSI C63.10: 2013
2 GHz Licence-exempt personal communications service devices	- Measurement of radiated emission - 9 kHz to 40 GHz - Measurement of conducted emission - 150 kHz to 30 MHz - Measurement of conducted emission at antenna terminal - 9 kHz to 40 GHz	RSS-213 Issue 3, March 2015 in conjunction with RSS-Gen Issue 5, April 2018 + Amendment 1 (March 2019) + Amendment 2 (February 2021) using test methods specified in ANSI C63.17-2013
Digital transmission system, frequency hopping system and licence-exempt local area network device	- Measurement of radiated emission - 9 kHz to 40 GHz - Measurement of conducted emission - 150 kHz to 30 MHz - Measurement of conducted emission at antenna terminal - 9 kHz to 40 GHz	RSS-247 Issue 3, August 2023 in conjunction with RSS-Gen Issue 5, April 2018 + Amendment 1 (March 2019) + Amendment 2 (February 2021) using test methods specified in ANSI C63.10: 2013

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
Workshop No. 3, G/F, World-wide Industrial Centre, 43-47 Shan Mei Street, Fotan, Shatin, N.T., Hong Kong
香港新界沙田火炭山尾街 43-47 號環球工業中心地下 3 號

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	EMC tests :- Emission tests	
Ultra-low power wireless medical capsule endoscopy device operating in 430 MHz to 440 MHz	- Transmitter effective radiated power - 430 MHz to 440 MHz - Transmitter's effective radiated power spectral density - 430 MHz to 440 MHz - Transmitter unwanted emissions - 9 kHz to 40 GHz - Data recorder receiver spurious emissions - 9 kHz to 40 GHz	RSS-246 Issue 1, March 2019 in conjunction with RSS-Gen Issue 5, April 2018 + Amendment 1 (March 2019) + Amendment 2 (February 2021) using test methods specified in ANSI C63.10: 2013
Wireless power transfer device	- Measurement of radiated emission - 9 kHz to 40 GHz - Measurement of conducted emission - 9 kHz to 30 MHz	RSS-216 Issue 3, September 2024 ***<Excluding the following>*** Cl. 5.2.2 in conjunction with RSS-Gen Issue 5, April 2018 + Amendment 1 (March 2019) + Amendment 2 (February 2021) using test methods specified in ANSI C63.10: 2020+Cor1: 2023 and ANSI C63.30: 2021

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
Workshop No. 3, G/F, World-wide Industrial Centre, 43-47 Shan Mei Street, Fotan, Shatin, N.T., Hong Kong
香港新界沙田火炭山尾街 43-47 號環球工業中心地下 3 號

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Radio equipment	Telecommunications equipment tests :-	
- Angle modulated radio transmitter and receiver for use as base, repeater, mobile and portable equipment in the land mobile radio service	- Test for transmitter: - Carrier power - Frequency error - Frequency deviation - Adjacent channel power - Spurious emissions - Test for receiver: - Usable sensitivity - Adjacent channel selectivity - Intermodulation response rejection - Blocking or desensitization - Spurious response rejection - Receiver spurious emissions - Test for repeater: - Carrier power - Spurious emissions - Intermodulation attenuation	HKCA 1002 Issue 6 (2008)
- VHF transmitter for use in the public paging service	- Test for transmitter: - Carrier power - Frequency error - Frequency deviation - Spurious emissions - Adjacent channel power	HKCA 1004 Issue 4 (2003)
- Low power radio microphone including associated receiving equipment	- Test for transmitter: - Frequency error - Transmitter output power - Maximum permissible frequency deviation - Spurious emissions - Test for receiver: - Receiver spurious emissions	HKCA 1008 Issue 4 (2013)

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
Workshop No. 3, G/F, World-wide Industrial Centre, 43-47 Shan Mei Street, Fotan, Shatin, N.T., Hong Kong
香港新界沙田火炭山尾街 43-47 號環球工業中心地下 3 號

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Radio equipment (cont'd)	Telecommunications equipment tests :-	
- Angle modulated radio equipment for use as repeater, base and mobile stations in 800 MHz trunked radio	- Test for transmitter: - Carrier power - Frequency error - Frequency deviation - Spurious emissions - Test for receiver: - Usable sensitivity - Adjacent channel selectivity - Intermodulation response rejection - Spurious response rejection - Receiver spurious emissions - Test for repeater: - Carrier power - Spurious emissions - Intermodulation attenuation	HKCA 1016 Issue 4 (2007)
- TV antenna amplifier	- Gain/frequency response - Intermodulation response rejection	HKCA 1019 Issue 3 (2011)
- Repeater equipment for use in the public mobile communications service employing Global System for Mobile Communications (GSM) operating in the 900 MHz band or in the Personal Communications Service (PCS) operating in the 1800 MHz band	- Test for repeaters - Spurious emissions - Intermodulation attenuation - Out of band gain	HKCA 1020 Issue 7 (2011)

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
Workshop No. 3, G/F, World-wide Industrial Centre, 43-47 Shan Mei Street, Fotan, Shatin, N.T., Hong Kong
香港新界沙田火炭山尾街 43-47 號環球工業中心地下 3 號

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Radio equipment (cont'd)	Telecommunications equipment tests :-	
- Radio equipment exempted from licensing	- Test for transmitter: - Carrier power - Power spectral density - Spurious emissions	HKCA 1035 Issue 7 (2016) < ***Excluding the following*** > Cl. 3.(v)
- Radiocommunications apparatus operating in the 27MHz band for private use	- Test for transmitter: - Mean power - Emission bandwidth - Spurious emissions	HKCA 1041 Issue 1 (2003)
- Radiocommunications apparatus operating in the 409 MHz band as short range portable radio	- Test for transmitter: - Effective radiated power - Frequency error - Adjacent channel power - Spurious emissions - Test for receiver: - Receiver spurious emissions	HKCA 1044 Issue 1 (2003)

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
Workshop No. 3, G/F, World-wide Industrial Centre, 43-47 Shan Mei Street, Fotan, Shatin, N.T., Hong Kong
香港新界沙田火炭山尾街 43-47 號環球工業中心地下 3 號

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Radio equipment (cont'd)	Telecommunications equipment tests :-	
- Ultra Low Power (ULP) wireless medical capsule endoscopy device operating in the frequency band of 430 MHz to 440 MHz	- Transmitter requirements - Receiver requirements	ETSI EN 303 520: 2019

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
Workshop No. 3, G/F, World-wide Industrial Centre, 43-47 Shan Mei Street, Fotan, Shatin, N.T., Hong Kong
香港新界沙田火炭山尾街 43-47 號環球工業中心地下 3 號

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Radio equipment (cont'd)	Telecommunications equipment tests :-	
- Wireless communications device to be used with the radiating part in close proximity to the human ear	- Specific Absorption Rate (SAR) measurement - 300 MHz to 6 GHz	IEEE 1528: 2013
	- Specific Absorption Rate (SAR) measurement - 300 MHz to 3 GHz	EN 50360: 2017 in conjunction with EN 62209-1: 2016
	- Specific Absorption Rate (SAR) measurement - 300 MHz to 3 GHz	EN 62209-1: 2016 IEC 62209-1: 2016
	- Specific Absorption Rate (SAR) measurement - 100 kHz to 6 GHz	RSS-102 Issue 6, December 2023 using test methods specified in RSS-102.SAR.MEAS Issue 1, December 2023 + Amendment 1, May 2024 ***<Excluding the following>*** Cl. 5.6, 5.11, 5.12, Annexes F & G
	- Field Reference Level (FRL) evaluation - 100 kHz to 6 GHz	RSS-102 Issue 6, December 2023 using test methods specified in IEEE C95.3: 2021
	- Nerve Simulation (NS) measurement - 3 kHz to 10 MHz	RSS-102 Issue 6, December 2023 using test methods specified in RSS-102.NS.MEAS Issue 1, December 2023 ***<Excluding the following>*** C.3

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
Workshop No. 3, G/F, World-wide Industrial Centre, 43-47 Shan Mei Street, Fotan, Shatin, N.T., Hong Kong
香港新界沙田火炭山尾街 43-47 號環球工業中心地下 3 號

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Radio equipment (cont'd)	Telecommunications equipment tests :-	
- Wireless communications device to be used with the radiating part in close proximity to the human body	- Specific Absorption Rate (SAR) measurement - 300 MHz to 6 GHz	EN 50566: 2013 using the method specified in EN 62209-2: 2010
	- Specific Absorption Rate (SAR) measurement - 300 MHz to 6 GHz	EN 62209-2: 2010 IEC 62209-2: 2010
	- Specific Absorption Rate (SAR) measurement - 100 kHz to 6 GHz	RSS-102 Issue 6, December 2023 using test methods specified in RSS-102.SAR.MEAS Issue 1, December 2023 + Amendment 1, May 2024 ***<Excluding the following>*** Cl. 5.6, 5.11, 5.12, Annexes F & G
	- Field Reference Level (FRL) evaluation - 100 kHz to 6 GHz	RSS-102 Issue 6, December 2023 using test methods specified in IEEE C95.3: 2021
	- Nerve Simulation (NS) measurement - 3 kHz to 10 MHz	RSS-102 Issue 6, December 2023 using test methods specified in RSS-102.NS.MEAS Issue 1, December 2023 ***<Excluding the following>*** C.3

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
Unit 7-10, Ground Floor, Trans Asia Centre, 18 Kin Hong Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌健康街 18 號恆亞中心地下 7-10 號單位

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Children's products	Physical and mechanical tests :-	
- Bassinet and cradle	- Safety requirements and test methods	16 CFR Part 1218 in conjunction with ASTM F2194-13 ASTM F2194-22e1
- Booster seat	- Safety requirements and test methods	16 CFR Part 1237 in conjunction with ASTM F2640-18 ASTM F2640-18
- Carriage and stroller	- Safety requirements and test methods	16 CFR Part 1227 in conjunction with ASTM F833-21 ASTM F833-21 Canada Carriages and Strollers Regulations, SOR/2023-101 ***in conjunction with*** ASTM F833-21 **<*Excluding the following*>** Section 3-7

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
Unit 7-10, Ground Floor, Trans Asia Centre, 18 Kin Hong Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌健康街 18 號恆亞中心地下 7-10 號單位

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Children's products (cont'd) - Carrier	Physical and mechanical tests :- (cont'd)	
- Baby carrier	- Safety requirements and test methods	EN 13209-2: 2015 BS EN 13209-2: 2015 incorporating corrigendum June 2016
- Frame child carrier	- Safety requirements and test methods	16 CFR Part 1230 in conjunction with ASTM F2549-22 ASTM F2549-22
- Hand held infant carrier	- Safety requirements and test methods	16 CFR Part 1225 in conjunction with ASTM F2050-19 ASTM F2050-19
- Sling carrier	- Safety requirements and test methods	16 CFR Part 1228 in conjunction with ASTM F2907-22 ASTM F2907-22
- Soft Infant and toddler carrier	- Safety requirements and test methods	16 CFR Part 1226 in conjunction with ASTM F2236-14 ASTM F2236-16a
- Changing table	- Safety requirements and test methods	16 CFR Part 1235 in conjunction with ASTM F2388-21 ASTM F2388-21
- Children's chair and stool	- Safety requirements and test methods	16 CFR Part 1232 in conjunction with ASTM F2613-21 ASTM F2613-21 ASTM F2613-22

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
Unit 7-10, Ground Floor, Trans Asia Centre, 18 Kin Hong Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌健康街 18 號恆亞中心地下 7-10 號單位

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Children's products (cont'd)	Physical and mechanical tests :- (cont'd)	
- Crib / play yard		
- Full-size baby crib	- Safety requirements and test methods	ASTM F1169-19 16 CFR Part 1219 in conjunction with ASTM F1169-19
- Non-full-size baby crib	- Safety requirements and test methods	16 CFR Part 1220 in conjunction with ASTM F406-22
- Non-full-size baby crib / play yard	- Safety requirements and test methods	ASTM F406-22
- Play yard	- Safety requirements and test methods	16 CFR Part 1221 in conjunction with ASTM F406-19
- Expansion gate and expandable enclosure	- Safety requirements and test methods	16 CFR Part 1239 in conjunction with ASTM F1004-22 ASTM F1004-22 ASTM F1004-23
- High chair	- Safety requirements and test methods	16 CFR Part 1231 in conjunction with ASTM F404-21 ASTM F404-21
- Infant bath seat	- Safety requirements and test methods	16 CFR Part 1215 in conjunction with ASTM F1967-19 ASTM F1967-19

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
Unit 7-10, Ground Floor, Trans Asia Centre, 18 Kin Hong Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌健康街 18 號恆亞中心地下 7-10 號單位

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Children's products (cont'd)	Physical and mechanical tests :- (cont'd)	
- Infant bath tub	- Safety requirements and test methods	16 CFR Part 1234 in conjunction with ASTM F2670-22 ASTM F2670-22
- Infant bouncer seat	- Safety requirements and test methods	16 CFR Part 1229 in conjunction with ASTM F2167-22 ASTM F2167-22
- Infant sleep product	- Safety requirements and test methods	16 CFR Part 1236 in conjunction with ASTM F3118-17a ASTM F3118-17a
- Infant swing	- Safety requirements and test methods	16 CFR Part 1223 in conjunction with ASTM F2088-22 ASTM F2088-22
- Baby walker / infant walker	- Safety requirements and test methods	16 CFR Part 1216 in conjunction with ASTM F977-22e1 ASTM F977-22e1 Competition and Consumer Act 2010 Consumer Protection Notice No. 1 of 2013 – The Schedule Division 2(2) ***in conjunction with*** ASTM F977-12 Section 6, 7 and 8

Intertek Testing Services Hong Kong Ltd.
天祥公證行有限公司
Unit 7-10, Ground Floor, Trans Asia Centre, 18 Kin Hong Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌健康街 18 號恆亞中心地下 7-10 號單位

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Children's products (cont'd)	Physical and mechanical tests :- (cont'd)	
- Stationary activity center	- Safety requirements and test methods	16 CFR Part 1238 in conjunction with ASTM F2012-18e1 ASTM F2012-18e1
- Toddler bed	- Safety requirements and test methods	16 CFR Part 1217 in conjunction with ASTM F1821-19e1 ASTM F1821-19e1 ASTM F1821-19e2
- Tricycles for children 8 years or under	- Safety requirements and test methods	ANSI Z315.1-2012

Sun Creation Engineering Limited - Calibration & Testing Laboratory
輝創工程有限公司 - 校正及檢測實驗所

ADDRESS 地址	:	4/F., Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, N.T., Hong Kong. 香港新界屯門興安里一號青山灣機樓四樓
ENQUIRY 查詢	:	Mr LAM Ying-kai, Engineer 林應佳先生
TELEPHONE 電話	:	2888 5358
FAX 傳真	:	2744 8986
E-MAIL 電郵	:	yklam@suncreation.com
WEBSITE ADDRESS 網址	:	www.suncreation.com
CLIENTELE 服務對象	:	Public 公眾

Sun Creation Engineering Limited - Calibration & Testing Laboratory
輝創工程有限公司 – 校正及檢測實驗所

ADDRESS : 4/F., Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, N.T., Hong Kong.
地址 香港新界屯門興安里一號青山灣機樓四樓

ACCREDITED TEST CATEGORY : Calibration Services 校正服務
認可測試類別

Sun Creation Engineering Limited - Calibration & Testing Laboratory
輝創工程有限公司 – 校正及檢測實驗所
4/F., Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, N.T., Hong Kong.
香港新界屯門興安里一號青山灣機樓四樓

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Electricity		
- Direct current and low frequency		
- AC ammeter	Calibration for AC current in accordance with in-house procedure LF044 over the following ranges:	.vs.
	at 40 Hz to 1 kHz	
	9 µA to 219.999 µA	25 nA to 65 nA
	220 µA to 2.19999 mA	87 nA to 0.46 µA
	2.2 mA to 21.9999 mA	0.87 µA to 4.6 µA
	22 mA to 219.999 mA	9.2 µA to 51 µA
	0.22 A to 2.19999 A	0.24 mA to 2.0 mA
	at above 1 kHz to 5 kHz	
	9 µA to 219.999 µA	66 nA to 0.24 mA
	220 µA to 2.19999 mA	0.76 µA to 2.4 µA
	2.2 mA to 21.9999 mA	7.6 µA to 24 µA
	22 mA to 219.999 mA	76 µA to 0.24 mA
	0.22 A to 2.19999 A	0.34 mA to 2.3 mA
	at above 5 kHz to 10 kHz	
	9 µA to 219.999 µA	0.14 µA to 0.58 µA
	220 µA to 2.19999 mA	1.7 µA to 5.8 µA
	2.2 mA to 21.9999 mA	17 µA to 58 µA
	22 mA to 219.999 mA	0.17 mA to 0.58 mA
	0.22 A to 2.19999 A	2.8 mA to 26 mA

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Sun Creation Engineering Limited - Calibration & Testing Laboratory
輝創工程有限公司 – 校正及檢測實驗所
4/F., Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, N.T., Hong Kong.
香港新界屯門興安里一號青山灣機樓四樓

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Electricity		
- Direct current and low frequency		
- AC ammeter	Calibration for AC current in accordance with in-house procedure LF064 over the following ranges:	.vs.
	at 45 Hz to 1 kHz	
	29 μA to 329.99 μA	0.16 μA to 0.60 μA
	0.33 mA to 3.2999 mA	0.56 μA to 4.0 μA
	3.3 mA to 32.999 mA	3.9 μA to 18 μA
	33 mA to 329.99 mA	39 μA to 0.18 mA
	0.33 A to 1.09999 A	0.31 mA to 0.76 mA
	1.1 A to 2.99999 A	0.88 mA to 2.2 mA
	at 45 Hz to 100 Hz	
	3 A to 10.9999 A	4.4 mA to 10 mA
	11 A to 20.5 A	22 mA to 35 mA
	at above 100 Hz to 1 kHz	
	3 A to 10.9999 A	5.8 mA to 16 mA
	11 A to 20.5 A	25 mA to 42 mA
	at above 1 kHz to 5 kHz	
	29 μA to 329.99 μA	0.28 μA to 1.4 μA
	0.33 mA to 3.2999 mA	1.0 μA to 7.9 μA
	3.3 mA to 32.999 mA	5.4 μA to 33 μA
	33 mA to 329.99 mA	96 μA to 0.44 mA
	0.33 A to 1.09999 A	3.5 mA to 8.8 mA
	1.1 A to 2.99999 A	8.8 mA to 22 mA
	3 A to 10.9999 A	0.11 A to 0.39 A
	at above 5 kHz to 10 kHz	
	29 μA to 329.99 μA	0.50 μA to 3.3 μA
	0.33 mA to 3.2999 mA	2.3 μA to 20 μA
	3.3 mA to 32.999 mA	12 μA to 80 μA
	33 mA to 329.99 mA	0.20 mA to 0.88 mA
	0.33 A to 1.09999 A	16 mA to 38 mA
	1.1 A to 2.99999 A	38 mA to 93 mA

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Sun Creation Engineering Limited - Calibration & Testing Laboratory
輝創工程有限公司 – 校正及檢測實驗所
4/F., Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, N.T., Hong Kong.
香港新界屯門興安里一號青山灣機樓四樓

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*	
Electricity			
- Direct current and low frequency			
- AC ammeter	Calibration for AC current in accordance with in-house procedure LF004 over the following ranges:		.vs.
	at 50 Hz to 1 kHz		
	0.2 mA to 1.99999 mA	0.49 μA to 2.6 μA	
	2 mA to 19.9999 mA	4.7 μA to 26 μA	
	20 mA to 199.999 mA	47 μA to 0.26 mA	
	0.2 A to 1.99999 A	0.47 mA to 2.6 mA	
	Calibration for AC current in accordance with in-house procedure LF008 over the following ranges:		.vs.
	at 50Hz		
	2 A to 20 A	7.0 mA to 70 mA	
	20.01 A to 50 A	0.12 A to 0.29 A	
- AC ammeter (clamp-on type)	Calibration for AC current in accordance with in-house procedure LF009 over the following ranges:		.vs.
	at 50 Hz		
	1 mA to 3.2999 mA	3.5 μA to 11 μA	
	3.3 mA to 32.999 mA	11 μA to 53 μA	
	33 mA to 329.99 mA	0.11 mA to 0.53 mA	
	330 mA to 2.99999 A	1.0 mA to 5.7 mA	
	3 A to 20 A	7.3 mA to 39 mA	
	20.01 A to 100 A	74 mA to 0.37 A	
	100.01 A to 1000 A	0.37 A to 3.7 A	

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Sun Creation Engineering Limited - Calibration & Testing Laboratory
輝創工程有限公司 – 校正及檢測實驗所
4/F., Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, N.T., Hong Kong.
香港新界屯門興安里一號青山灣機樓四樓

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*	
Electricity			
- Direct current and low frequency			
- AC current calibrator/ source	Calibration for AC current in accordance with in-house procedure LF014 over the following ranges:		.vs.
	at 40 Hz to 5 kHz		
	10 μA to 199.999 μA	26 nA to 70 nA	
	0.2 mA to 1.99999 mA	0.28 μA to 0.70 μA	
	2 mA to 19.9999 mA	2.8 μA to 7.0 μA	
	at 40 Hz to 1 kHz		
	20 mA to 199.999 mA	28 μA to 70 μA	
	200 mA to 1.99999 A	0.58 mA to 1.7 mA	
	at above 1 kHz to 5 kHz		
	20 mA to 199.999 mA	31 μA to 93 μA	
	200 mA to 1.99999 A	1.3 mA to 4.4 mA	
	Calibration for AC current in accordance with in-house procedure LF040 over the following ranges:		.vs.
	at 45Hz to 1 kHz		
	10 μA to 219.99 μA	25 nA to 65 nA	
	0.22 mA to 2.1999 mA	88 nA to 0.47 μA	
	2.2 mA to 21.999 mA	0.88 μA to 4.7 μA	
	22 mA to 219.99 mA	9.3 μA to 52 μA	
	220 mA to 1.99999 A	0.24 mA to 1.8 mA	
	at above 1 kHz to 5 kHz		
	10 μA to 219.99 μA	66 nA to 0.24 μA	
	0.22 mA to 2.1999 mA	0.76 μA to 2.4 μA	
	2.2 mA to 21.999 mA	7.6 μA to 24 μA	
	22 mA to 219.99 mA	76 μA to 0.24 mA	
	220 mA to 1.99999 A	0.34 mA to 2.1 mA	

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Sun Creation Engineering Limited - Calibration & Testing Laboratory
輝創工程有限公司 – 校正及檢測實驗所
4/F., Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, N.T., Hong Kong.
香港新界屯門興安里一號青山灣機樓四樓

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Electricity		
- Direct current and low frequency		
- AC current calibrator/ source	Calibration for AC current in accordance with in-house procedure LF017 at the following specific points:	.vs.
	at 50 Hz	
	5 A	3.9 mA
	10 A	5.3 mA
	15 A	5.8 mA
	20 A	7.3 mA
	30 A	11 mA
	50 A	19 mA
	100 A	63 mA

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Sun Creation Engineering Limited - Calibration & Testing Laboratory
輝創工程有限公司 – 校正及檢測實驗所
4/F., Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, N.T., Hong Kong.
香港新界屯門興安里一號青山灣機樓四樓

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Electricity		
- Direct current and low frequency		
- AC voltmeter	Calibration for AC voltage in accordance with in-house procedure LF002 over the following ranges:	
	at 50 Hz to 10 kHz	
	2 mV to 19.9999 mV	61 μV to 71 μV
	20 mV to 199.999 mV	81 μV to 0.20 mV
	200 mV to 1.99999 V	0.30 mV to 1.5 mV
	2 V to 19.9999 V	2.5 mV to 14 mV
	20 V to 110 V	24 mV to 80 mV
	at 50 Hz to 1 kHz	
	110.001 V to 199.999 V	80 mV to 0.14 V
	220 V to 1020 V	0.19 V to 0.70 V

.vs.

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Sun Creation Engineering Limited - Calibration & Testing Laboratory
輝創工程有限公司 – 校正及檢測實驗所
4/F., Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, N.T., Hong Kong.
香港新界屯門興安里一號青山灣機樓四樓

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*	
Electricity			
- Direct current and low frequency			
- AC voltmeter	Calibration for AC voltage in accordance with in-house procedure LF042 over the following ranges:		.vs.
	at 40 Hz to 20 kHz		
	2.2 mV to 21.99999 mV	7.3 µV to 11 µV	
	22 mV to 219.9999 mV	15 µV to 42 µV	
	0.22 V to 2.199999 V	30 µV to 0.23 mV	
	2.2 V to 21.99999 V	0.30 mV to 2.3 mV	
	22 V to 219.9999 V	3.5 mV to 25 mV	
	at 50 Hz to 1 kHz		
	220 V to 1020 V	28 mV to 0.12 V	
	at above 20 kHz to 50 kHz		
	2.2 mV to 21.99999 mV	8.0 µV to 18 µV	
	22 mV to 219.9999 mV	21 µV to 0.11 mV	
	0.22 V to 2.199999 V	59 µV to 0.38 mV	
	2.2 V to 21.99999 V	0.59 mV to 3.8 mV	
	22 V to 219.9999 V	11 mV to 69 mV	
	at above 50 kHz to 100 kHz		
	2.2 mV to 21.99999 mV	12 µV to 34 µV	
	22 mV to 219.9999 mV	58 µV to 0.27 mV	
	0.22 V to 2.199999 V	0.17 mV to 0.81 mV	
	2.2 V to 21.99999 V	1.2 mV to 7.6 mV	
	22 V to 219.9999 V	27 mV to 0.17 V	
	Calibration for AC voltage in accordance with in-house procedure LF062 over the following ranges:		.vs.
	at 45 Hz to 10 kHz		
	2 mV to 32.999 mV	7.3 µV to 13 µV	
	33 mV to 329.999 mV	15 µV to 68 µV	
	0.33 V to3.29999 V	0.13 mV to 0.65 mV	
	3.3 V to 32.9999 V	1.3 mV to 6.5 mV	

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Sun Creation Engineering Limited - Calibration & Testing Laboratory
輝創工程有限公司 – 校正及檢測實驗所
4/F., Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, N.T., Hong Kong.
香港新界屯門興安里一號青山灣機樓四樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electricity		
- Direct current and low frequency		
- AC voltmeter	Calibration for AC voltage in accordance with in-house procedure LF062 over the following ranges:	.vs.
	at 45 Hz to 1 kHz	
	33 V to 329.999 V	9.6 mV to 75 mV
	330 V to 1020 V	0.13 V to 0.37 V
	at above 1 kHz to 10 kHz	
	33 V to 200 V	15 mV to 54 mV
	200.001 V to 329.999 V	0.21 V to 0.33 V
	at above 1 kHz to 5 kHz	
	330 V to 1020 V	0.88 V to 2.5 V
	at above 5 kHz to 10 kHz	
	330 V to 1020 V	1.4 V to 3.0 V
	at above 10 kHz to 20 kHz	
	2 mV to 32.999 mV	7.4 µV to 15 µV
	33 mV to 329.999 mV	16 µV to 73 µV
	0.33 V to 3.29999 V	0.15 mV to 0.80 mV
	3.3 V to 32.9999 V	1.7 mV to 9.9 mV
	33 V to 200 V	17 mV to 65 mV
	200.001 V to 329.999 V	0.25 V to 0.39 V
	at above 20 kHz to 50 kHz	
	2 mV to 32.999 mV	9.3 µV to 46 µV
	33 mV to 329.999 mV	23 µV to 0.15 mV
	0.33 V to 3.29999 V	0.18 mV to 1.3 mV
	3.3 V to 32.9999 V	2.1 mV to 15 mV
	33 V to 200 V	19 mV to 77 mV
	at above 50 kHz to 100 kHz	
	2 mV to 32.999 mV	22 µV to 0.15 mV
	33 mV to 329.999 mV	68 µV to 0.35 mV
	0.33 V to 3.29999 V	0.42 mV to 2.9 mV
	3.3 V to 32.9999 V	5.3 mV to 37 mV
	33 V to 200 V	0.14 V to 0.52 V

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Sun Creation Engineering Limited - Calibration & Testing Laboratory
輝創工程有限公司 – 校正及檢測實驗所
4/F., Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, N.T., Hong Kong.
香港新界屯門興安里一號青山灣機樓四樓

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Electricity		
- Direct current and low frequency		
- AC voltage calibrator/ source	Calibration for AC voltage in accordance with in-house procedure LF012 over the following ranges:	
	at 40 Hz to below 100 Hz	
	10 mV to 199.9999 mV	7.2 µV to 30 µV
	200 mV to 1.999999 V	71 µV to 0.30 mV
	2 V to 19.99999 V	0.44 mV to 2.4 mV
	20 V to 199.9999 V	4.4 mV to 24 mV
	200 V to 1000 V	44 mV to 1.5 V
	at 100 Hz to 2 kHz	
	10 mV to 199.9999 mV	7.2 µV to 30 µV
	200 mV to 1.999999 V	71 µV to 0.30 mV
	2 V to 19.99999 V	0.39 mV to 2.0 mV
	20 V to 199.9999 V	3.9 mV to 20 mV
	200 V to 1000 V	44 mV to 1.5 V
	at above 2 kHz to 10 kHz	
	10 mV to 199.9999 mV	7.2 µV to 30 µV
	200 mV to 1.999999 V	71 µV to 0.30 mV
	2 V to 19.99999 V	0.44 mV to 2.4 mV
	20 V to 199.9999 V	4.4 mV to 24 mV
	200 V to 1000 V	44 mV to 1.5 V
	at above 10 kHz to 30 kHz	
	10 mV to 199.9999 mV	13 µV to 80 µV
	200 mV to 1.999999 V	93 µV to 0.53 mV
	2 V to 19.99999 V	0.93 mV to 5.3 mV
	20 V to 199.9999 V	9.3 mV to 53 mV
	at above 30 kHz to 100 kHz	
	10 mV to 199.9999 mV	32 µV to 0.19 mV
	200 mV to 1.999999 V	0.35 mV to 1.4 mV
	2 V to 19.99999 V	3.5 mV to 14 mV
	20 V to 199.9999 V	35 mV to 0.14 V

.vs.

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Sun Creation Engineering Limited - Calibration & Testing Laboratory
輝創工程有限公司 – 校正及檢測實驗所
4/F., Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, N.T., Hong Kong.
香港新界屯門興安里一號青山灣機樓四樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electricity		
- Direct current and low frequency		
- AC voltage calibrator/ source	Calibration for AC voltage in accordance with in-house procedure LF040 over the following ranges:	
	at 45 Hz to 10 kHz	
	2.2 mV to 21.9999 mV	7.3 µV to 10 µV
	22 mV to 219.999 mV	15 µV to 42 µV
	at 45 Hz to 20 kHz	
	0.22 V to 2.19999 V	35 µV to 0.29 mV
	2.2 V to 21.9999 V	0.35 mV to 2.9 mV
	22 V to 199.9999 V	3.9 mV to 28 mV
	at 45 Hz to 5 kHz	
	200 V to 219.999 V	28 mV to 30 mV
	at 50 Hz to 1 kHz	
	220 V to 1000 V	33 mV to 0.14 V
	at above 20 kHz to 50 kHz	
	0.22 V to 2.19999 V	62 µV to 0.42 mV
	2.2 V to 21.9999 V	0.62 mV to 4.2 mV
	22 V to 199.9999 V	12 mV to 65 mV

.vs.

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Sun Creation Engineering Limited - Calibration & Testing Laboratory
輝創工程有限公司 – 校正及檢測實驗所
4/F., Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, N.T., Hong Kong.
香港新界屯門興安里一號青山灣機樓四樓

Calibration Services 校正服務			
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*	
Electricity			
- Direct current and low frequency			
- DC ammeter	Calibration for DC current in accordance with in-house procedure LF043 over the following ranges:		.vs.
	2 μA to 219.999 μA	12 nA to 27 nA	
	0.22 mA to 2.199999 mA	27 nA to 0.18 μA	
	2.2 mA to 21.99999 mA	0.27 μA to 1.8 μA	
	22 mA to 219.9999 mA	3.0 μA to 19 μA	
	0.22 A to 2.199999 A	59 μA to 0.28 mA	
	Calibration for DC current in accordance with in-house procedure LF003 over the following ranges:		.vs.
	10 μA to 199.999 μA	23 nA to 0.14 μA	
	0.2 mA to 1.99999 mA	0.19 μA to 1.3 μA	
	2 mA to 19.9999 mA	1.8 μA to 13 μA	
	20 mA to 199.999 mA	18 μA to 0.13 mA	
	0.2 A to 1.99999 A	0.18 mA to 1.3 mA	
	Calibration for DC current in accordance with in-house procedure LF063 over the following ranges:		.vs.
	10 μA to 329.999 μA	25 nA to 81 nA	
	330 μA to 3.29999 mA	96 nA to 0.44 μA	
	3.3 mA to 32.9999 mA	0.67 μA to 4.1 μA	
	33 mA to329.999 mA	6.7 μA to 41 μA	
	330 mA to 1.09999 A	0.13 mA to 0.30 mA	
	1.1 A to 2.19999 A	0.44 mA to 0.82 mA	
	2.2 A to 2.99999 A	1.1 mA to 1.4 mA	
	3 A to 10.9999 A	2.3 mA to 7.0 mA	
	11 A to 20.5 A	14 mA to 24 mA	

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Sun Creation Engineering Limited - Calibration & Testing Laboratory
輝創工程有限公司 – 校正及檢測實驗所
4/F., Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, N.T., Hong Kong.
香港新界屯門興安里一號青山灣機樓四樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electricity		
- Direct current and low frequency		
- DC ammeter	Calibration for DC current in accordance with in-house procedure LF006 over the following range:	.vs.
	1 A to 35 A	5.8 mA to 0.21 A
- DC ammeter (clamp-on type)	Calibration for DC current in accordance with in-house procedure LF007 over the following range:	.vs.
	1 A to 35 A	0.01 A to 0.21 A
	35 A to 330 A	0.21 A to 2.0 A
	330 A to 1155A	2.0 A to 6.9 A

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Sun Creation Engineering Limited - Calibration & Testing Laboratory
輝創工程有限公司 – 校正及檢測實驗所
香港新界屯門興安里一號青山灣機樓四樓

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*	
Electricity			
- Direct current and low frequency			
- DC current calibrator/ source	Calibration for DC current in accordance with in-house procedure LF013 over the following ranges:		.vs.
	10 μA to 199.9999 μA	1.1 nA to 12 nA	
	0.2 mA to 1.99999 mA	17 nA to 0.12 μA	
	2 mA to 19.99999 mA	0.17 μA to 1.2 μA	
	20 mA to 199.9999 mA	3.5 μA to 25 μA	
	200 m A to 1.999999 A	58 μA to 0.37 mA	
	Calibration for DC current in accordance with in-house procedure LF040 over the following ranges:		.vs.
	10 μA to 219.999 μA	13 nA to 27 nA	
	0.22 mA to 2.19999 mA	27 nA to 0.17 μA	
	2.2 mA to 21.9999 mA	0.27 μA to 1.7 μA	
	22 mA to 219.999 mA	3.0 μA to 20 μA	
	220 m A to 1.999999 A	59 μA to 0.26 mA	
	Calibration for DC current in accordance with in-house procedure LF016 at the following specific points:		.vs.
	5 A	3.4 mA	
	10 A	2.6 mA	
	15 A	3.9 mA	
	20 A	5.1 mA	
	30 A	7.7 mA	
	50 A	17 mA	
	100 A	59 mA	

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Sun Creation Engineering Limited - Calibration & Testing Laboratory
輝創工程有限公司 – 校正及檢測實驗所
4/F., Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, N.T., Hong Kong.
香港新界屯門興安里一號青山灣機樓四樓

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Electricity		
- Direct current and low frequency		
- DC resistance meter	Calibration for DC resistance in accordance with in-house procedure LF065 over the following ranges:	.vs.
	0 Ω to 10.9999 Ω	1.2 mΩ to 1.7 mΩ
	11 Ω to 32.9999 Ω	2.2 mΩ to 2.9 mΩ
	33 Ω to 109.9999 Ω	2.7 mΩ to 5.2 mΩ
	110 Ω to 329.9999 Ω	5.9 mΩ to 13 mΩ
	330 Ω to 1.099999 kΩ	13 mΩ to 38 mΩ
	1.1 kΩ to 3.299999 kΩ	59 mΩ to 0.13 Ω
	3.3 kΩ to 10.99999 kΩ	0.13 Ω to 0.38 Ω
	11 kΩ to 32.99999 kΩ	0.59 Ω to 1.3 Ω
	33 kΩ to 109.9999 kΩ	1.3 Ω to 3.8 Ω
	110 kΩ to 329.9999 kΩ	13 Ω to 21 Ω
	330 kΩ to 1.099999 MΩ	21 Ω to 49 Ω
	1.1 MΩ to 3.299999 MΩ	0.14 kΩ to 0.29 kΩ
	3.3 MΩ to 10.99999 MΩ	0.58 kΩ to 1.8 kΩ
	11 MΩ to 32.99999 MΩ	6.3 kΩ to 13 kΩ
	33 MΩ to 109.9999 MΩ	23 kΩ to 68 kΩ
	110 MΩ to 329.9999 MΩ	0.50 MΩ to 1.3 MΩ

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Sun Creation Engineering Limited - Calibration & Testing Laboratory
輝創工程有限公司 – 校正及檢測實驗所
4/F., Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, N.T., Hong Kong.
香港新界屯門興安里一號青山灣機樓四樓

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*	
Electricity			
- Direct current and low frequency			
- DC resistance meter	Calibration for DC resistance in accordance with in-house procedure LF045 at the following specific values:		.vs.
	1 Ω	0.13 mΩ	
	1.9 Ω	0.25 mΩ	
	10 Ω	0.39 mΩ	
	19 Ω	0.68 mΩ	
	100 Ω	2.3 mΩ	
	190 Ω	4.4 mΩ	
	1 kΩ	18 mΩ	
	1.9 kΩ	33 mΩ	
	10 kΩ	0.17 Ω	
	19 kΩ	0.31 Ω	
	100 kΩ	1.9 Ω	
	190 kΩ	3.6 Ω	
	1 MΩ	27 Ω	
	1.9 MΩ	53 Ω	
	10 MΩ	0.54 kΩ	
	19 MΩ	1.2 kΩ	
	100 MΩ	15 kΩ	
	Calibration for DC resistance in accordance with in-house procedure LF005 at the following specific values:		.vs.
	1 Ω	0.35 mΩ	
	10 Ω	1.2 mΩ	
	100 Ω	5.8 mΩ	
	1 kΩ	58 mΩ	
	10 kΩ	0.58 Ω	
	100 kΩ	9.3 Ω	
	1 MΩ	0.18 kΩ	
	10 MΩ	5.8 kΩ	

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Sun Creation Engineering Limited - Calibration & Testing Laboratory
輝創工程有限公司 – 校正及檢測實驗所
4/F., Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, N.T., Hong Kong.
香港新界屯門興安里一號青山灣機樓四樓

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*	
Electricity			
- Direct current and low frequency			
- DC decade resistance box/ resistance source	Calibration for DC resistance in accordance with in-house procedure LF015 over the following ranges:		.vs.
	1 Ω to 19.999999 Ω	67 μΩ to 0.47 mΩ	
	20 Ω to 199.99999 Ω	0.35 mΩ to 2.5 mΩ	
	200 Ω to 1.9999999 kΩ	6.0 mΩ to 25 mΩ	
	2 kΩ to 19.999999 kΩ	35 mΩ to 0.25 Ω	
	20 kΩ to 199.99999 kΩ	0.35 Ω to 2.5 Ω	
	200 kΩ to 1.9999999 MΩ	5.8 Ω to 37 Ω	
	2 MΩ to 19.999999 MΩ	0.19 kΩ to 0.81 kΩ	
	20 MΩ to 199.99999 MΩ	21 kΩ to 0.11 MΩ	
	Calibration for DC resistance in accordance with in-house procedure LF040 at the following specific values:		.vs.
	1 Ω	0.14 mΩ	
	10 Ω	0.41 mΩ	
	100 Ω	2.5 mΩ	
	1 kΩ	20 mΩ	
	10 kΩ	0.19 Ω	
	100 kΩ	2.1 Ω	
	1 MΩ	28 Ω	
	10 MΩ	0.71 kΩ	

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Sun Creation Engineering Limited - Calibration & Testing Laboratory
輝創工程有限公司 – 校正及檢測實驗所
4/F., Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, N.T., Hong Kong.
香港新界屯門興安里一號青山灣機樓四樓

Calibration Services 校正服務			
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*	
Electricity			
- Direct current and low frequency			
- DC voltmeter	Calibration for DC voltage in accordance with in-house procedure LF041 over the following ranges:		.vs.
	2 mV to 219.99999 mV	0.98 µV to 3.5 µV	
	0.22 V to 2.1999999 V	3.5 µV to 22 µV	
	2.2 V to 10.999999 V	25 µV to 0.11 mV	
	11 V to 21.999999 V	0.11 mV to 0.22 mV	
	22 V to 219.99999 V	0.35 mV to 2.4 mV	
	220 V to 1020 V	3.5 mV to 14 mV	
	Calibration for DC voltage in accordance with in-house procedure LF061 over the following ranges:		.vs.
	2 mV to 329.9999 mV	1.2 µV to 9.0 µV	
	0.33 V to 3.299999 V	6.5 µV to 45 µV	
	3.3 V to 32.99999 V	69 µV to 0.48 mV	
	33 V to 329.9999 V	0.86 mV to 7.1 mV	
	330 V to 1000 V	8.6 mV to 23 mV	
	Calibration for DC voltage in accordance with in-house procedure LF001 over the following ranges:		.vs.
	2 mV to 19.9999 mV	6.3 µV to 8.4 µV	
	20 mV to 199.999 mV	11 µV to 32 µV	
	0.2 V to 1.99999 V	52 µV to 0.26 mV	
	2 V to 19.9999 V	0.47 mV to 2.6 mV	
	20 V to 199.999 V	4.7 mV to 26 mV	
	200 V to 1020 V	36 mV to 0.14 V	

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Sun Creation Engineering Limited - Calibration & Testing Laboratory
輝創工程有限公司 – 校正及檢測實驗所
4/F., Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, N.T., Hong Kong.
香港新界屯門興安里一號青山灣機樓四樓

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*	
Electricity			
- Direct current and low frequency			
- DC voltage calibrator/ source	Calibration for DC voltage in accordance with in-house procedure LF011 over the following ranges:		.vs.
	10 mV to 199.99999 mV	0.97 μV to 2.6 μV	
	200 mV to 1.9999999 V	3.0 μV to 20 μV	
	2 V to 19.999999 V	22 μV to 0.17 mV	
	20 V to 199.99999 V	0.33 mV to 2.3 mV	
	200 V to 1000 V	4.8 mV to 15 mV	
	Calibration for DC voltage in accordance with in-house procedure LF040 over the following ranges:		.vs.
	2 mV to 219.9999 mV	0.98 μV to 3.7 μV	
	220 mV to 2.199999 V	3.7 μV to 26 μV	
	2.2 V to 10.99999 V	28 μV to 0.13 mV	
	11 V to 21.99999 V	0.13 mV to 0.25 mV	
	22 V to 219.9999 V	0.37 mV to 2.8 mV	
	220 V to 1000 V	3.8 mV to 15 mV	

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Sun Creation Engineering Limited - Calibration & Testing Laboratory
輝創工程有限公司 – 校正及檢測實驗所
4/F., Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, N.T., Hong Kong.
香港新界屯門興安里一號青山灣機樓四樓

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*	
Electricity			
- Direct current and low frequency			
- Capacitance meter	Calibration for capacitance in accordance with in-house procedure LF067 over the following ranges:		.vs.
	0.4 nF to 1.0999 nF	14 pF to 18 pF	
	1.1 nF to 3.2999 nF	18 pF to 31 pF	
	3.3 nF to 10.9999 nF	22 pF to 44 pF	
	11 nF to 32.9999 nF	0.15 nF to 0.22 nF	
	33 nF to 109.999 nF	0.22 nF to 0.44 nF	
	110 nF to 329.999 µF	0.67 nF to 1.3 nF	
	0.33 µF to 1.09999 µF	2.2 nF to 4.4 nF	
	1.1 µF to 3.29999 µF	6.7 nF to 13 nF	
	3.3 µF to 10.9999 µF	22 nF to 44 nF	
	11 µF to 32.9999 µF	86 nF to 0.19 µF	
	33 µF to 109.999 µF	0.29 µF to 0.69 µF	
	110 µF to 329.999 µF	0.92 µF to 2.1 µF	
	330 µF to 1.09999 mF	2.9 µF to 6.9 µF	
	1.1 mF to 3.29999 mF	9.2 µF to 21 µF	
	3.3 mF to 10.9999 mF	29 µF to 69 µF	
	11 mF to 32.9999 mF	0.13 mF to 0.32 mF	
	33 mF to 110 mF	0.54 mF to 1.6 mF	
- DC wattmeter	Calibration for power in accordance with in-house procedure LF068 under the following conditions: voltage range: 3 V to 1020 V current range: 3.3 mA to 20.5 A over the following range:		.vs.
	10 mW to 20.5 kW	2.1 µW to 25 W	

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Sun Creation Engineering Limited - Calibration & Testing Laboratory
輝創工程有限公司 – 校正及檢測實驗所
4/F., Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, N.T., Hong Kong.
香港新界屯門興安里一號青山灣機樓四樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electricity		
- Direct current and low frequency		
- AC 1-phase wattmeter	Calibration for active power in accordance with in-house procedure LF069 under the following conditions: frequency range: 45 Hz to 65 Hz voltage range: 10 V to 1020 V current range: 10 mA to 20.5 A over the following ranges:	
	at unity power factor 100 mW to 20.5 kW	74 µW to 35 W
	at power factor 0.5 lead/lag to unity 50 mW to 20.5 kW	76 µW to 40 W
- Power factor meter	Calibration for power factor in accordance with in-house procedure LF070 under the following conditions: frequency range: 45 Hz to 65 Hz voltage range: 10 V to 330 V current range: 10 mA to 20.5 A over the following range:	
	0.0 lead/lag to unity	0.0021 to 0.0001
- Phase meter	Calibration for phase in accordance with in-house procedure LF070 under the following conditions: frequency range: 45 Hz to 65 Hz voltage range: 10 V to 330 V current range: 10 mA to 20.5 A over the following range:	
	-180° to +180°	0.13°

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Sun Creation Engineering Limited - Calibration & Testing Laboratory
輝創工程有限公司 – 校正及檢測實驗所
4/F., Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, N.T., Hong Kong.
香港新界屯門興安里一號青山灣機樓四樓

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Electricity		
- Direct current and low frequency		
- Insulation tester	Calibration for the following parameters in accordance with in-house procedure LF053 over the following ranges:	.vs.
	- Continuity resistance over the following ranges:	
	0.01 Ω to 1 Ω	4.7 mΩ to 5.0 mΩ
	1 Ω to 10 Ω	5.0 mΩ to 8.1 mΩ
	10 Ω to 100 Ω	8.1 mΩ to 40 mΩ
	100 Ω to 1 kΩ	40 mΩ to 0.36 Ω
	1 kΩ to 10 kΩ	0.36 Ω to 3.5 Ω
	10 kΩ to 100 kΩ	3.5 Ω to 35 Ω
	100 kΩ to 1 MΩ	35 Ω to 0.35 kΩ
	1 MΩ to 10 MΩ	0.35 kΩ to 3.5 kΩ
	- Insulation resistance over the following ranges:	
	0.1 MΩ to 1.11 MΩ	35 Ω to 0.35 kΩ
	1.111 MΩ to 11.11 MΩ	1.2 kΩ to 12 kΩ
	11.111 MΩ to 111.11 MΩ	12 kΩ to 0.12 MΩ
	111.111 MΩ to 1.11111 GΩ	0.35 MΩ to 3.5 MΩ
	1.111111 GΩ to 11.11111 GΩ	5.8 MΩ to 58 MΩ
	11.111111 GΩ to 100 GΩ	0.12 GΩ to 1.2 GΩ
	- Insulation voltage over the following ranges:	
	50 V to 1.2 kV	0.16 V to 2.2 V
	Above 1.2 kV to 6.0 kV	11 V to 39 V

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Sun Creation Engineering Limited - Calibration & Testing Laboratory
輝創工程有限公司 – 校正及檢測實驗所
4/F., Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, N.T., Hong Kong.
香港新界屯門興安里一號青山灣機樓四樓

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*	
Electricity			
- Direct current and low frequency			
- Tester for double pole RCCB	Calibration for the following parameters in accordance with in-house procedure LF051		.vs.
	- Test current over the following range:		
	3 mA to 1000 mA	0.11 mA to 15 mA	
	- Test time over the following range:		
	20 ms to 900 ms	1.4 ms	
- Earth loop tester	Calibration for earthing resistance in accordance with in-house procedure LF052 at the following specific points:		.vs.
	0.25 Ω to 0.75 Ω	0.022 Ω	
	1.25 Ω	0.03 Ω	
	5.25 Ω	0.04 Ω	
	10.2 Ω	0.07 Ω	
	99.8 Ω	0.6 Ω	
	985 Ω	6 Ω	

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Sun Creation Engineering Limited - Calibration & Testing Laboratory
輝創工程有限公司 – 校正及檢測實驗所
4/F., Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, N.T., Hong Kong.
香港新界屯門興安里一號青山灣機樓四樓

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*	
Electricity			
- Time and frequency			
- Frequency counter	Calibration for frequency in accordance with in-house procedure RF006 over the following ranges:		.vs.
	1 Hz to 1 kHz	0.61 μHz to 1.1 μHz	
	1 kHz to 18 GHz	1.1 μHz to 19 Hz	
	Calibration for frequency in accordance with in-house procedure LF066 over the following range:		.vs.
	5 Hz to 2 MHz	0.021 mHz to 5.8 Hz	
- Frequency generator/ source	Calibration for frequency in accordance with in-house procedure RF005 over the following ranges:		.vs.
	0.1 Hz to 1 kHz	2.5 μHz to 1.7 μHz	
	1 kHz to 18 GHz	1.7 μHz to 18 Hz	

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Sun Creation Engineering Limited - Calibration & Testing Laboratory
輝創工程有限公司 – 校正及檢測實驗所
4/F., Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, N.T., Hong Kong.
香港新界屯門興安里一號青山灣機樓四樓

Calibration Services 校正服務			
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*	
Electricity			
- Time and frequency			
- Oscilloscope	Calibration for bandwidth in accordance with in-house procedure RF003 over the following ranges:		.vs.
	0.25 MHz to 250 MHz	4.2 kHz to 4.3 MHz	
	Above 250 MHz to 1050 MHz	15 MHz to 63 MHz	
	Calibration for time base in accordance with in-house procedure RF001 over the following ranges:		.vs.
	10 ns to 5 s (on-graticule line)	0.2 %	
	10 ns to 500 ms (cursor readout)	0.02 ns to 2 ms	
	1 s to 5 s (cursor readout)	0.02 s to 0.1 s	
	Calibration for peak to peak voltage of 1 kHz square waveform in accordance with in-house procedure RF002 over the following ranges:		.vs.
	10 mV to 100 V p-p (on-graticule line)	0.5 %	
	10 mV to 100 V p-p (cursor readout)	0.038 mV to 0.38 V	
- Period generator/ source	Calibration for period in accordance with in-house procedure RF005 over the following range:		.vs.
	0.01 μs to 10 s	0.02 fs to 0.25 ms	
- Time base oscillators	Calibration for frequency in accordance with in-house procedure RF004 at the following specific points:		.vs.
	1 MHz	1.3 mHz	
	5 MHz	6.6 mHz	
	10 MHz	13 mHz	

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Sun Creation Engineering Limited - Calibration & Testing Laboratory
輝創工程有限公司 – 校正及檢測實驗所
4/F., Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, N.T., Hong Kong.
香港新界屯門興安里一號青山灣機樓四樓

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*	
Length and related quantities			
- Length			
- External micrometer	Calibration for length in accordance with in-house procedure MA001 over the following ranges:		.vs.
	2.5 mm to 100 mm capacity	1 μm to 2 μm	
	100 mm to 550 mm capacity	2 μm to 8 μm	
- Caliper	Calibration for length in accordance with in-house procedure MA001 over the following ranges:		.vs.
	2.5 mm to 188 mm capacity	0.01 mm	
	Above 188 mm to 425 mm capacity	0.02 mm	
	Above 425 mm to 550 mm capacity	0.03 mm	

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Sun Creation Engineering Limited - Calibration & Testing Laboratory
輝創工程有限公司 – 校正及檢測實驗所
4/F., Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, N.T., Hong Kong.
香港新界屯門興安里一號青山灣機樓四樓

Calibration Services 校正服務			
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*	
Mass and related quantities			
- Weight and balance			
- Electronic balance	Calibration for mass using OIML Class E2 weights in accordance with in-house procedure MA003 over the following range:		.vs.
	1 g to 6 kg	34 μg to 13 mg	
	Calibration for mass using OIML Class F1 weights in accordance with in-house procedure MA003 over the following range:		.vs.
	Above 6 kg to 15 kg	31 mg to 68 mg	
	Calibration for mass using OIML Class F2 weights in accordance with in-house procedure MA003 over the following range:		.vs.
	Above 15 kg to 35 kg	0.21 g to 0.52 g	
	On-site calibration for mass using OIML Class E2 weights in accordance with in-house procedure MA003 over the following range:		.vs.
	1 g to 6 kg	34 μg to 13 mg	
	On-site calibration for mass using OIML Class F1 weights in accordance with in-house procedure MA003 over the following range:		.vs.
	Above 6 kg to 15 kg	31 mg to 68 mg	
	On-site calibration for mass using OIML Class F2 weights in accordance with in-house procedure MA003 over the following range:		.vs.
	Above 15 kg to 35 kg	0.21 g to 0.52 g	

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Sun Creation Engineering Limited - Calibration & Testing Laboratory
輝創工程有限公司 – 校正及檢測實驗所
4/F., Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, N.T., Hong Kong.
香港新界屯門興安里一號青山灣機樓四樓

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*	
Temperature			
- Liquid in glass thermometer and digital thermometer	Calibration for temperature in accordance with in-house procedure MA007 using ice cell at the following specific point:		.vs.
	0˚C	0.014 K	
	Calibration for temperature in accordance with in-house procedure MA012 using a liquid bath over the following ranges:		.vs.
	-30˚C to below -10˚C	0.082 K	
	-10˚C to 100˚C	0.064 K	
	Above 100˚C to 200˚C	0.11 K	
- Temperature recorder and temperature sensor	Calibration for temperature in accordance with in-house procedure MA006 using environmental chamber over the following range:		.vs.
	0˚C to 60˚C	0.44 K	

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Sun Creation Engineering Limited - Calibration & Testing Laboratory
輝創工程有限公司 – 校正及檢測實驗所

Summary of Voluntary Suspension

.vs. denotes calibration for which accreditation has been voluntarily suspended with effect from 1 November 2024 (Notification Letter no. HOKLAS006-49).

Hong Kong Aircraft Engineering Co. Ltd. - Calibration and Metrology Centre
香港飛機工程有限公司 - 校正及計量中心

ADDRESS : 80 Chun Choi Street, Tseung Kwan O Industrial Estate,
地址 Tseung Kwan O, New Territories, Hong Kong
香港新界將軍澳工業村駿才街 80 號

ENQUIRY : Mr Cecil LAU Sze-ho, Assistant Manager (CALMET)
查詢

TELEPHONE : 2260 4015
電話

FAX : 2206 1421
傳真

E-MAIL : cecil.lau@haeco.com
電郵

WEBSITE ADDRESS : www.haeco.com
網址

CLIENTELE : Public
服務對象 公眾

Hong Kong Aircraft Engineering Co. Ltd. - Calibration and Metrology Centre
香港飛機工程有限公司 – 校正及計量中心

ADDRESS **地址**	:	80 Chun Choi Street, Tseung Kwan O Industrial Estate, Tseung Kwan O, New Territories, Hong Kong 香港新界將軍澳工業邨駿才街 80 號
ACCREDITED TEST CATEGORY **認可測試類別**	:	Calibration Services 校正服務

Hong Kong Aircraft Engineering Co. Ltd. - Calibration and Metrology Centre
香港飛機工程有限公司 – 校正及計量中心
80 Chun Choi Street, Tseung Kwan O Industrial Estate, Tseung Kwan O, New Territories, Hong Kong
香港新界將軍澳工業邨駿才街 80 號

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurement		
- Direct current and low frequency measurement		
- AC ammeter	Calibration for current in accordance with in-house procedure E004 over the following ranges :	
	40 Hz to 1 kHz	
	100 μA to 150 μA	41 nA to 50 nA
	above 150 μA to 220 μA	50 nA to 64 nA
	above 0.22 mA to 0.5 mA	86 nA to 140 nA
	above 0.5 mA to 2.2 mA	0.14 μA to 0.44 μA
	above 2.2 mA to 5 mA	0.75 μA to 1.4 μA
	above 5 mA to 22 mA	1.4 μA to 4.4 μA
	above 22 mA to 220 mA	9.0 μA to 51 μA
	above 0.22 A to 2.2 A	0.24 mA to 1.9 mA
- DC ammeter	Calibration for current in accordance with in-house procedure E003 over the following ranges :	
	10 μA to 20 μA	12 nA to 13 nA
	above 20 μA to 30 μA	13 nA to 14 nA
	above 30 μA to 50 μA	14 nA to 15 nA
	above 50 μA to 100 μA	15 nA to 18 nA
	above 100 μA to 220 μA	18 nA to 27 nA
	above 0.22 mA to 2.2 mA	27 nA to 180 nA
	above 2.2 mA to 10 mA	0.26 μA to 0.79 μA
	above 10 mA to 22 mA	0.79 μA to 1.8 μA
	above 22 mA to 100 mA	2.9 μA to 9.1 μA
	above 100 mA to 220 mA	9.1 μA to 3.1 μA
	above 0.22 A to 1 A	58 μA to 140 μA
	above 1 A to 2.2 A	0.14 mA to 0.33 mA

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Hong Kong Aircraft Engineering Co. Ltd. - Calibration and Metrology Centre
香港飛機工程有限公司 – 校正及計量中心
80 Chun Choi Street, Tseung Kwan O Industrial Estate, Tseung Kwan O, New Territories, Hong Kong
香港新界將軍澳工業邨駿才街 80 號

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurement (cont'd)		
- Direct current and low frequency measurement (cont'd)		
- DC ohmmeter	Calibration for resistance in accordance with in-house procedure E005 at the following specific values :	
	4-wire connection :	
	1 Ω	0.16 mΩ
	1.9 Ω	0.28 mΩ
	10 Ω	0.40 mΩ
	19 Ω	0.68 mΩ
	100 Ω	2.3 mΩ
	190 Ω	4.4 mΩ
	1 kΩ	17 mΩ
	1.9 kΩ	32 mΩ
	10 kΩ	0.16 Ω
	19 kΩ	0.30 Ω
	100 kΩ	1.8 Ω
	190 kΩ	3.6 Ω
	1 MΩ	26 Ω
	1.9 MΩ	51 Ω
	10 MΩ	0.52 kΩ
	19 MΩ	1.2 kΩ
	2-wire connection :	
	1 Ω	2.1 mΩ
	1.9 Ω	2.5 mΩ
	10 Ω	2.6 mΩ
	19 Ω	2.9 mΩ
	100 Ω	4.5 mΩ
	190 Ω	6.7 mΩ
	1 kΩ	28 mΩ
	1.9 kΩ	44 mΩ
	10 kΩ	0.22 Ω
	19 kΩ	0.42 Ω
	100 kΩ	1.8 Ω
	190 kΩ	3.6 Ω
	1 MΩ	26 Ω
	1.9 MΩ	53 Ω
	10 MΩ	0.52 kΩ
	19 MΩ	1.2 kΩ

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Hong Kong Aircraft Engineering Co. Ltd. - Calibration and Metrology Centre
香港飛機工程有限公司 – 校正及計量中心
80 Chun Choi Street, Tseung Kwan O Industrial Estate, Tseung Kwan O, New Territories, Hong Kong
香港新界將軍澳工業邨駿才街 80 號

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurement (cont'd)		
- Direct current and low frequency measurement (cont'd)		
- AC voltmeter	Calibration for voltage in accordance with in-house procedure E002 over the following ranges :	
	40 Hz to 20 kHz	
	2.2 mV to 4 mV	7.0 µV to 7.2 µV
	above 4 mV to 10 mV	7.2 µV to 8.1 µV
	above 10 mV to 22 mV	8.1 µV to 9.7 µV
	above 22 mV to 50 mV	14 µV to 18 µV
	above 50 mV to 220 mV	18 µV to 40 µV
	above 0.22 V to 2.2 V	29 µV to 220 µV
	above 2.2 V to 22 V	0.29 mV to 2.2 mV
	above 22 V to 220 V	3.3 mV to 24 mV
	50 Hz to 1 kHz	
	220 V to 1100 V	26 mV to 120 mV
	20 kHz to 50 kHz	
	2.2 mV to 4 mV	7.9 µV to 8.8 µV
	above 4 mV to 10 mV	8.8 µV to 11 µV
	above 10 mV to 22 mV	11 µV to 17 µV
	above 22 mV to 50 mV	20 µV to 32 µV
	above 50 mV to 220 mV	32 µV to 100 µV
	above 0.22 V to 2.2 V	57 µV to 370 µV
	above 2.2 V to 22 V	0.57 mV to 3.7 mV
	above 22 V to 219.9999 V	11 mV to 66 mV

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Hong Kong Aircraft Engineering Co. Ltd. - Calibration and Metrology Centre
香港飛機工程有限公司 – 校正及計量中心
80 Chun Choi Street, Tseung Kwan O Industrial Estate, Tseung Kwan O, New Territories, Hong Kong
香港新界將軍澳工業邨駿才街 80 號

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurement (cont'd)		
- Direct current and low frequency measurement (cont'd)		
- DC voltmeter	Calibration for voltage in accordance with in-house procedure E001 over the following ranges :	
	10 mV to 20 mV	3.6 µV
	above 20 mV to 30 mV	3.6 µV to 3.7 µV
	above 30 mV to 50 mV	3.7 µV
	above 50 mV to 100 mV	37 µV to 4.0 µV
	above 100 mV to 220 mV	4.0 µV to 5.1 µV
	above 0.22 V to 1.0 V	5.1 µV to 11 µV
	above 1.0 V to 2.2 V	11 µV to 31 µV
	above 2.2 V to 11 V	31 µV to 110 µV
	above 11 V to 22 V	0.11 mV to 0.31 mV
	above 22 V to 100 V	0.40 mV to 1.2 mV
	above 100 V to 220 V	1.2 mV to 3.1 mV
	above 220 V to 1000 V	4.0 mV to 14 mV

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Hong Kong Aircraft Engineering Co. Ltd. - Calibration and Metrology Centre
香港飛機工程有限公司 – 校正及計量中心
80 Chun Choi Street, Tseung Kwan O Industrial Estate, Tseung Kwan O, New Territories, Hong Kong
香港新界將軍澳工業邨駿才街 80 號

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related measurement		
- Length measurement		
- External micrometer	Calibration for length in accordance with in-house procedure M003 over the following ranges :	
	0 to 4 inch	1 x 10^{-4} inch
	0 to 100 mm	3 μm
- Calliper	Calibration for length in accordance with in-house procedure M004 over the following ranges :	
	0 to 48 inch	(400+30*l*) x 10^{-6} inch where *l* is length in inch
	0 to 500 mm	(10+30*l*) μm where *l* is length in m

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Hong Kong Aircraft Engineering Co. Ltd. - Calibration and Metrology Centre
香港飛機工程有限公司 – 校正及計量中心
80 Chun Choi Street, Tseung Kwan O Industrial Estate, Tseung Kwan O, New Territories, Hong Kong
香港新界將軍澳工業邨駿才街 80 號

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related measurement		
- Force measurement		
- Load cell	Calibration for compression and tension forces in accordance with in-house procedure M008(B) over the following ranges :	
	10 lbf to 220 lbf above 220 lbf to 400 lbf	0.30 lbf 0.33 lbf to 0.60 lbf
	44.5 N to 979 N above 979 N to 1779 N	1.40 N 1.47 N to 2.67 N
- Push-pull gauge	Calibration for compression and tension forces in accordance with in-house procedure M008(A) over the following ranges :	
	0.25 lbf to 220 lbf above 220 lbf to 400 lbf	0.05 lbf to 0.24 lbf 1.32 lbf to 2.40 lbf
	1.1 N to 979 N above 979 N to 1779 N	0.23 N to 1.07 N 5.87 N to 10.67 N

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Hong Kong Aircraft Engineering Co. Ltd. - Calibration and Metrology Centre
香港飛機工程有限公司 – 校正及計量中心
80 Chun Choi Street, Tseung Kwan O Industrial Estate, Tseung Kwan O, New Territories, Hong Kong
香港新界將軍澳工業邨駿才街 80 號

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related measurement (cont'd)		
- Pressure measurement		
- Pressure gauge and pressure transducer	Calibration for pressure in accordance with in-house procedure M005 using nitrogen as pressure medium over the following ranges :	
	15 psig to 1000 psig	0.03 psi to 0.70 psi
	104 kPa to 6894 kPa	0.22 kPa to 4.83 kPa
	Calibration for pressure in accordance with in-house procedure M005 using oil as pressure medium over the following ranges :	
	10 psig to 8000 psig	0.03 psi to 4.00 psi
	69 kPa to 55158 kPa	0.22 kPa to 27.58 kPa
- Torque measurement		
- Torque watch gauge	Calibration for torque in accordance with in-house procedure M009(A) over the following ranges :	
	18 N·mm to 70 N·mm above 70 N·mm to 300 N·mm above 300 N·mm to 1400 N·mm	0.50 N·mm to 1.62 N·mm 2.35 N·mm to 6.81 N·mm 6.95 N·mm to 31.72 N·mm

.vs.

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Hong Kong Aircraft Engineering Co. Ltd. - Calibration and Metrology Centre
香港飛機工程有限公司 – 校正及計量中心
80 Chun Choi Street, Tseung Kwan O Industrial Estate, Tseung Kwan O, New Territories, Hong Kong
香港新界將軍澳工業邨駿才街 80 號

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related measurement (cont'd)		
- Weight and balance		
- Electronic balance	Calibration for mass in accordance with in-house procedure M002 using Class F1 weights from 10 mg to 15 kg over the following ranges :	
	0.01 g to 210 g	0.5 mg
	above 210 g to 2 kg	4 mg
	above 2 kg to 6 kg	10 mg
	above 6 kg to 10 kg	17 mg
	above 10 kg to 15 kg	24 mg
	On-site calibration for mass in accordance with in-house procedure M002 using Class F1 weights from 10 mg to 15 kg over the following ranges :	
	0.01 g to 210 g	0.5 mg
	above 210 g to 2 kg	4 mg
	above 2 kg to 6 kg	10 mg
	above 6 kg to 10 kg	17 mg
	above 10 kg to 15 kg	24 mg

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Hong Kong Aircraft Engineering Co. Ltd. - Calibration and Metrology Centre
香港飛機工程有限公司 – 校正及計量中心
80 Chun Choi Street, Tseung Kwan O Industrial Estate, Tseung Kwan O, New Territories, Hong Kong
香港新界將軍澳工業邨駿才街 80 號

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related measurement (cont'd)		
- Weight and balance (cont'd)		
- Weight	Calibration for mass in accordance with in-house procedure M001 over the following ranges :	
	0.01 g to 50 g	0.17 mg
	above 50 g to 100 g	0.4 mg
	above 100 g to 200 g	0.5 mg
	above 200 g to 1.2 kg	3 mg
	above 1.2 kg to 4 kg	30 mg
	above 4 kg to 12 kg	300 mg

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Hong Kong Aircraft Engineering Co. Ltd. - Calibration and Metrology Centre
香港飛機工程有限公司 – 校正及計量中心

Summary of Voluntary Suspension

.vs. denotes calibration for which accreditation has been voluntarily suspended with effect from 14 March 2025 (Notification Letter No. HOKLAS007-48).

SGS Hong Kong Limited
香港通用檢測認證有限公司

ADDRESS 地址	:	1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong 香港新界粉嶺樂業路25號安滙中心一樓
ENQUIRY 查詢	:	Mr Frederick CHEUNG Kin, Quality, Health & Safety - Manager 張健先生，質量、健康及安全部經理
TELEPHONE 電話	:	2334 4481
FAX 傳真	:	2356 7502
E-MAIL 電郵	:	frederick.cheung@sgs.com
WEBSITE ADDRESS 網址	:	www.sgs.com/en-hk
CLIENTELE 服務對象	:	Public 公眾

SGS Hong Kong Limited
香港通用檢測認證有限公司

ADDRESS
地址 : 1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

OGC Laboratory, Lung Hong Street, Area 38, Tuen Mun, New Territories, Hong Kong
香港新界屯門 38 區龍康街石化部化驗室

Unit 2 and 3, G/F Block A, Po Lung Centre, 11 Wang Chiu Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣宏照道十一號寶隆中心 A 座地下 2 及 3 號室

ACCREDITED TEST CATEGORIES
認可測試類別 :

Calibration Services 校正服務
Testing Required by the China Compulsory Certification System (CCC)
中國強制性產品認證制度規定的檢測
Chemical Testing 化學測試
Chinese Medicine 中藥
Electrical and Electronic Products 電氣及電子產品
Environmental Testing 環境測試
Food 食品
Miscellaneous 雜類
Pharmaceutical Products 藥物
Physical and Mechanical Testing 物理及機械測試
Textiles and Garments 紡織品及成衣
Toys and Children's Products 玩具及兒童產品

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Length and related measurements		
- Length measurement		
- Caliper	Calibration for length in accordance with in-house procedure CALIPER.CAL over the following range:	
- Dial Type	3.1 mm to 200 mm	0.027 mm
- Digital Type	3.1 mm to 200 mm	0.027 mm
- Vernier Type	3.1 mm to 200 mm	0.027 mm
- External micrometer	Calibration for length in accordance with in-house procedure MICRO.CAL over the following range:	
- Digital Type	2.5 mm to 25 mm	1.6 µm
- Vernier Type	2.5 mm to 25 mm	1.6 µm
- Steel rule	Calibration for length in accordance with in-house procedure SRULE.CAL over the following range:	
	0.2 mm to 1000 mm	0.075 mm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED[@]** 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related measurements		
- Force measurement		
- Tension gauge	Calibration for force in accordance with in-house procedure TENSION.CAL over the following range:	
	10 N to 100 N	0.38 N
	above 100 N to 300 N	0.96 N
	above 300 N to 670 N	1.9 N

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related measurements (cont'd)		
- Weight and balance		
- Electronic balance	Calibration for mass using OIML Class E2 weights from 1 mg to 50 g and 200 g, Class F1 weights from 10 mg to 2 kg, and Class M1 weights from 1 kg to 10 kg in accordance with in-house procedure BALANCE.CAL over the following ranges:	
	1 mg to 50 g	0.13 mg
	above 50 g to 100 g	0.23 mg
	above 100 g to 200 g	0.38 mg
	above 200 g to 300 g	0.43 mg
	above 300 g to 400 g	1.3 mg
	above 400 g to 500 g	1.3 mg
	above 500 g to 1 kg	14 mg
	above 1 kg to 2 kg	15 mg
	above 2 kg to 3 kg	18 mg
	above 3 kg to 4 kg	21 mg
	above 4 kg to 8 kg	130 mg
	above 8 kg to 30 kg	1.6 g
	above 30 kg to 60 kg	12 g
	above 60 kg to 140 kg	24 g

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related measurements (cont'd)		
- Weight and balance (cont'd)		
- Electronic balance (cont'd)	On-site calibration for mass using OIML Class E2 weights from 1 mg to 50 g and 200 g, Class F1 weights from 10 mg to 2 kg, and Class M1 weights from 1 kg to 10 kg in accordance with in-house procedure BALANCE.CAL over the following ranges:	
	1 mg to 50 g	0.13 mg
	above 50 g to 100 g	0.23 mg
	above 100 g to 200 g	0.38 mg
	above 200 g to 300 g	0.43 mg
	above 300 g to 400 g	1.3 mg
	above 400 g to 500 g	1.3 mg
	above 500 g to 1 kg	14 mg
	above 1 kg to 2 kg	15 mg
	above 2 kg to 3 kg	18 mg
	above 3 kg to 4 kg	21 mg
	above 4 kg to 8 kg	130 mg
	above 8 kg to 30 kg	1.6 g
	above 30 kg to 60 kg	12 g
	above 60 kg to 140 kg	24 g

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Testing Required by the China Compulsory Certification System (CCC) 中國強制性產品認證制度規定的檢測		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Toy and children's product 兒童用品 - Toy *(2202)* - 玩具*(2202)*		
- Electric toys ***<Excluding the following>*** - toys containing gas or liquid - imitation weapon toys - chemical toys - cosmetic toys - toys with direct food contact - toys likely to be cleaned with liquid	All required tests as specified in CNCA-C22-02: 2020	GB 6675.1-2014 GB 6675.2-2014 + Amendment 1 GB 6675.3-2014 GB 6675.4-2014 GB 19865-2005+ Amendment 1
- 電玩具 ***<不包括>*** - 含氣體或液體玩具 - 仿真武器玩具 - 化學遊戲玩具 - 玩具化妝品 - 與食品直接接觸的玩具 - 可能用液體清潔的玩具	CNCA-C22-02: 2020 有關規定的所有檢測	GB 6675.1-2014 GB 6675.2-2014 + 第 1 號修改單 GB 6675.3-2014 GB 6675.4-2014 GB 19865-2005 + 第 1 號修改單
- Metal toys ***<Excluding the following>*** - toys containing gas or liquid - imitation weapon toys - chemical toys - cosmetic toys - toys with direct food contact	All required tests as specified in CNCA-C22-02: 2020	GB 6675.1-2014 GB 6675.2-2014 + Amendment 1 GB 6675.3-2014 GB 6675.4-2014
- 金屬玩具 ***<不包括>*** - 含氣體或液體玩具 - 仿真武器玩具 - 化學遊戲玩具 - 玩具化妝品 - 與食品直接接觸的玩具	CNCA-C22-02: 2020 有關規定的所有檢測	GB 6675.1-2014 GB 6675.2-2014 + 第 1 號修改單 GB 6675.3-2014 GB 6675.4-2014

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Testing Required by the China Compulsory Certification System (CCC) 中國強制性產品認證制度規定的檢測

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Toy and children's product 兒童用品		
- Toy *(2202)* - 玩具*(2202)*		
- Plastic toys ***<Excluding the following>*** - toys containing gas or liquid - imitation weapon toys - chemical toys - cosmetic toys - toys with direct food contact	All required tests as specified in CNCA-C22-02: 2020	GB 6675.1-2014 GB 6675.2-2014 + Amendment 1 GB 6675.3-2014 GB 6675.4-2014
- 塑膠玩具 ***<不包括>*** - 含氣體或液體玩具 - 仿真武器玩具 - 化學遊戲玩具 - 玩具化妝品 - 與食品直接接觸的玩具	CNCA-C22-02: 2020 有關規定的所有檢測	GB 6675.1-2014 GB 6675.2-2014 + 第 1 號修改單 GB 6675.3-2014 GB 6675.4-2014

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Chemical Testing 化學測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Leather and textile products	Amine (Azo colourants) : 1) 4-aminodiphenyl 2) benzidine 3) 4-chloro-o-toluidine 4) 2-naphthylamine 5) o-aminoazotoluene 6) 5-nitro-o-toluidine 7) 4-chloroaniline 8) 4-methoxy-m-phenylenediamine 9) 4,4'-diaminodiphenylmethane 10) 3,3'-dichlorobenzidine 11) 3,3'-dimethoxybenzidine 12) 3,3'-dimethylbenzidine 13) 4,4'-methylene-di-o-toluidine 14) p-cresidine 15) 4,4'-methylene-bis-(2-chloro-aniline) 16) 4,4'-oxydianiline 17) 4,4'-thiodianiline 18) o-toluidine 19) 4-methyl-m-phenylenediamine 20) 2,4,5-trimethylaniline 21) 2-methoxyaniline 22) 4-aminoazobenzene	Regulation (EC) No. 1907/2006 on REACH Annex XVII Item No 43 as amended by Commission Regulation (EC) No. 552/2009 and Commission Regulation (EU) No. 2020/2096 *Test procedures for compliance testing for leather products:* - EN ISO 17234-1: 2015 (for determination of the 21 amines listed on the left in leather products) - EN ISO 17234-2: 2011 (for determination of 4-aminoazobenzene in leather products) *Test procedures for compliance testing for textile products:* - EN ISO 14362-1: 2017 (for determination of the 21 amines listed on the left in textile products) - EN ISO 14362-3: 2017 (for determination of 4-aminoazobenzene in textile products) Techniques used are GC-MSD and HPLC-DAD for the test methods listed above

SGS Hong Kong Limited
香港通用檢測認證有限公司

1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Chemical Testing 化學測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Leather and textile products	Amine (Azo colourants) : 1) 4-aminodiphenyl 2) benzidine 3) 4-chloro-o-toluidine 4) 2-naphthylamine 5) o-aminoazotoluene 6) 5-nitro-o-toluidine 7) 4-chloroaniline 8) 4-methoxy-m-phenylenediamine 9) 4,4'-diaminodiphenylmethane 10) 3,3'-dichlorobenzidine 11) 3,3'-dimethoxybenzidine 12) 3,3'-dimethylbenzidine 13) 4,4'-methylenedi-o-toliodone 14) p-cresidine 15) 4,4'-methylene-bis-(2-chloroaniline) 16) 4,4'-oxydianiline 17) 4,4'-thiodianiline 18) o-toluidine 19) 4-methyl-m-phenylenediamine 20) 2,4,5-trimethylaniline 21) 2-methoxyaniline 22) 2,4-xylidine 23) 2,6-xylidine 4-aminoazobenzene	*For leather products:* ISO 17234-1: 2015 BS EN ISO 17234-1: 2015 ISO 17234-1: 2020 BS EN ISO 17234-1: 2020 *For textile products:* ISO 14362-1:2017 BS EN ISO 14362-1: 2017 (for the determination of the first 21 amines listed on the left) *For leather products:* ISO 17234-2:2011 BS EN ISO 17234-2: 2011 *For textile products:* ISO 14362-3:2017 BS EN ISO 14362-3: 2017 Techniques used are GC-MSD and HPLC-DAD for all test methods listed above.

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Chemical Testing 化學測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Products made of textile	Amine (Azo colourants) : 1) 4-氨基聯苯(4-aminodiphenyl) 2)聯苯胺(benzidine) 3) 4-氯鄰甲苯胺(4-chloro-o-toluidine) 4) 2-萘胺(2-naphthylamine) 5)鄰氨基偶氮甲苯(2-aminoazotoluene) 6) 2-氨基-4-硝基甲苯(2-amino-4-nitrotoluene) 7)對氯苯胺(p-chloroaniline) 8) 2,4-二氨基苯甲醚(2,4-diaminoanisole) 9) 4,4'-二氨基二苯甲烷 (4,4'-diaminodiphenylmethane) 10) 3,3'-二氯聯苯胺(3,3'-dichlorobenzidine) 11) 3,3'-二甲氧基聯苯胺 (3,3'-dimethoxybenzidine) 12) 3,3'-二甲基聯苯胺 (3,3'-dimethylbenzidine) 13) 3,3'-二甲基-4,4'二氨基二苯甲烷 (3,3'-dimethyl-4,4'-diaminodiphenylmethane) 14) 3-氨基對甲苯甲醚(p-克利酊)(p-cresidine) 15) 4,4'-次甲基-雙-(2-氯苯胺) [4,4'-methylene-bis-(2-chloroaniline)] 16) 4,4'-二氨基二苯醚(4,4'-oxydianiline) 17) 4,4'-二氨基二苯硫醚(4,4'-thiodianiline) 18)鄰甲苯胺(2-toluidine) 19) 2,4'-二氨基甲苯(2,4-toluylenediamine) 20) 2,4,5-三甲基苯胺(2,4,5-trimethylaniline) 21) 鄰甲基苯胺(鄰氨基苯甲醚)(2-anisidine) 22) 2,4-二甲基苯胺(2,4-xylidine) 23) 2,6-二甲基苯胺(2,6-xylidine) 24) 4-氨基偶氮苯(4-aminoazobenzene)	FZ/T 73001-2016 Cl. 5.4.2 & 6.4.7 (襪子) FZ/T 73010-2016 Cl. 5.3.1 & 6.1.2.4 (針織工藝衫) FZ/T 73012-2017 Cl. 5.3.1 & 6.1.2.5 (文胸) FZ/T 73013-2017 Cl. 4.2.1 & 5.1.2.5 (針織泳裝) FZ/T 73017-2014 Cl. 4.3.1 & 5.1.2.6 (針織家居服) FZ/T 73019.2-2020 Cl. 6.2.1 & 7.1.11 (針織塑身內衣-調整型) FZ/T 73020-2019 Cl. 5.3.1 & 6.1.5 (針織休閒服裝) FZ/T 73022-2019 Cl. 4.3.1 & 5.2.6 (針織保暖內衣) FZ/T 73024-2014 Cl. 4.3.1 & 5.1.2.6 (化纖針織內衣) FZ/T 73025-2019 Cl. 5.3.1 & 6.1.5 (嬰幼兒針織服飾) FZ/T 73026-2014 Cl. 4.3.1 & 5.1.2.19 (針織裙、裙套) FZ/T 73029-2019 Cl. 6.4.3.1 & 7.4.7 (針織褲) FZ/T 73032-2017 Cl. 5.3.1 & 6.2.4 (針織牛仔服裝) FZ/T 73043-2020 Cl. 4.2.1 & 5.5.5 (針織襯衫) FZ/T 73046-2020 Cl. 5.2.1 & 6.1.2.4 (一體成型文胸) FZ/T 73052-2015 Cl. 5.3.1 & 6.2.19 (水洗整理針織服裝) FZ/T 81014-2008 Cl. 4.11 & 5.4.5 (嬰幼兒服裝) FZ/T 73037-2019 Cl. 5.4.2.1 & 6.4.6 (針織運動襪) FZ/T 73045-2013 Cl. 4.3.1 & 5.3.15 (針織兒童服裝) FZ/T 73047-2013 Cl. 4.4.1 & 5.4.4 (針織民用手套) GB/T 22849-2014 Cl. 4.3.1 & 5.1.2.5 (針織 T 袒衫) GB/T 22853-2019 Cl. 5.3.1 & 6.2.2.5 (針織運動服) GB/T 23328-2009 Cl. 3.12.9 & 4.4.12 (機織學生服) GB/T 32614-2016 Cl. 5.3.1 & 6.2.5 (户外運動服裝) GB/T 8878-2014 Cl. 4.3.1 & 5.1.2.6 (棉針織內衣) FZ/T 74002-2014 Cl 5.3.1 & 6.1.2.4 (運動文胸) *Test procedures for compliance testing:* GB/T 17592-2011 (for determination of the first 23 amines listed on the left in textile products) GB/T 23344-2009 (for determination of 4-aminoazobenzene in textile products) Techniques used are GC-MSD and HPLC-DAD for the test methods listed above

SGS Hong Kong Limited
香港通用檢測認證有限公司

1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Chemical Testing 化學測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Products made of textile (cont'd)	Amine (Azo colourants) : 1) 4-氨基聯苯(4-aminodiphenyl) 2)聯苯胺(benzidine) 3) 4-氯鄰甲苯胺(4-chloro-o-toluidine) 4) 2-萘胺(2-naphthylamine) 5)鄰氨基偶氮甲苯(2-aminoazotoluene) 6) 2-氨基-4-硝基甲苯(2-amino-4-nitrotoluene) 7)對氯苯胺(p-chloroaniline) 8) 2,4-二氨基苯甲醚(2,4-diaminoanisole) 9) 4,4'-二氨基二苯甲烷 (4,4'-diaminodiphenylmethane) 10) 3,3'-二氯聯苯胺(3,3'-dichlorobenzidine) 11) 3,3'-二甲氧基聯苯胺 (3,3'-dimethoxybenzidine) 12) 3,3'-二甲基聯苯胺 (3,3'-dimethylbenzidine) 13) 3,3'-二甲基-4,4'二氨基二苯甲烷 (3,3'-dimethyl-4,4'-diaminodiphenylmethane) 14) 3-氨基對甲苯甲醚(p-克利酊)(p-cresidine) 15) 4,4'-次甲基-雙-(2-氯苯胺) [4,4'-methylene-bis-(2-chloroaniline)] 16) 4,4'-二氨基二苯醚(4,4'-oxydianiline) 17) 4,4'-二氨基二苯硫醚(4,4'-thiodianiline) 18)鄰甲苯胺(2-toluidine) 19) 2,4'-二氨基甲苯(2,4-toluylenediamine) 20) 2,4,5-三甲基苯胺(2,4,5-trimethylaniline) 21)鄰甲基苯胺(鄰氨基苯甲醚)(2-anisidine) 22) 2,4-二甲基苯胺(2,4-xylidine) 23) 2,6-二甲基苯胺(2,6-xylidine) 24) 4-氨基偶氮苯(4-aminoazobenzene)	GB/T 21294-2014 Cl 3.4 for FZ/T 73002-2016 Cl. 3.5 & 4.4.5 (針織帽) FZ/T 81001-2016 Cl. 4.12 & 5.4.7 (睡衣套) FZ/T 81004-2022 Cl. 4.11 & 5.4.12 (連衣裙、裙套) FZ/T 81006-2017 Cl. 4.11 & 5.4.10 (牛仔服裝) FZ/T 81007-2022 Cl. 4.11 & 5.4.12 (單、夾服裝) FZ/T 81008-2021 Cl. 3.11 & 4.4.12 (茄克衫) FZ/T 81010-2018 Cl. 3.11 & 4.4.16 (風衣) FZ/T 81020-2014 Cl. 4.8.1 & 5.4.4 (機織文胸) FZ/T 81021-2014 Cl. 4.9.1 & 5.4.7 (機織泳裝) FZ/T 82002-2016 Cl. 3.5 & 4.4.5 (縫製帽) FZ/T 81012-2016 Cl. 4.7 & 5.2.6 (機織圍巾披肩) GB/T 2664-2017 Cl. 3.12 & 4.4.10 (男西服、大衣) GB/T 2665-2017 Cl. 3.12 & 4.4.10 (女西服、大衣) GB/T 2666-2017 Cl. 3.12 & 4.4.11 (西褲) GB/T 18132-2016 Cl. 4.12 & 5.4.7 (絲綢服裝) GB/T 22700-2016 Cl. 4.10 & 5.4.7 (水洗整理服裝) GB/T 31900-2015 Cl. 3.12.1 & 4.4.7 (機織兒童服裝) GB/T 14272-2021 Cl. 4.11.1, 4.11.2, 4.11.3 & 5.6.9 (羽絨服裝) GB/T 23314-2021 Cl. 4.8 & 5.4.13 (領帶) GB 18401-2010 Cl. 6.8 for FZ/T 73031-2009 Cl. 5.4.1.2 & 6.4.10 (壓力襪) FZ/T 43015-2021 Cl. 4.3 & 5.1 (桑蠶絲針織服裝) GB/T 22854-2009 Cl. 4.3 & 5.3.14 (針織學生服) *Test procedures for compliance testing:* GB/T 17592-2011 (for determination of the first 23 amines listed on the left in textile products) GB/T 23344-2009 (for determination of 4-aminoazobenzene in textile products) Techniques used are GC-MSD and HPLC-DAD for the test methods listed above

SGS Hong Kong Limited
香港通用檢測認證有限公司

1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Chemical Testing 化學測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
皮革和毛皮產品及其製品 (Products made from leather and fur)	芳香胺(偶氮染料)Amine (Azo colourants) : 1) 4-氨基聯苯(4-aminodiphenyl) 2) 聯苯胺(benzidine) 3) 4-氯鄰甲苯胺(4-chloro-o-toluidine) 4) 2-萘胺(2-naphthylamine) 5) 鄰氨基偶氮甲苯(2-aminoazotoluene) 6) 2-氨基-4-硝基甲苯(2-amino-4-nitrotoluene) 7) 對氯苯胺(p-chloroaniline) 8) 2,4-二氨基苯甲醚(2,4-diaminoanisole) 9) 4,4'-二氨基二苯甲烷 (4,4'-diaminodiphenylmethane) 10) 3,3'-二氯聯苯胺(3,3'-dichlorobenzidine) 11) 3,3'-二甲氧基聯苯胺 (3,3'-dimethoxybenzidine) 12) 3,3'-二甲基聯苯胺 (3,3'-dimethylbenzidine) 13) 3,3'-二甲基-4,4'二氨基二苯甲烷 (3,3'-dimethyl-4,4'-diaminodiphenylmethane) 14) 3-氨基對甲苯甲醚 (p-克利酊)(p-cresidine) 15) 4,4'-次甲基-雙-(2-氯苯胺) [4,4'-methylene-bis-(2-chloroaniline)] 16) 4,4'-二氨基二苯醚(4,4'-oxydianiline) 17) 4,4'-二氨基二苯硫醚(4,4'-thiodianiline) 18) 鄰甲苯胺(2-toluidine) 19) 2,4'-二氨基甲苯(2,4-toluylenediamine) 20) 2,4,5-三甲基苯胺(2,4,5-trimethylaniline) 21) 鄰甲基苯胺(鄰氨基苯甲醚)(2-anisidine) 22) 2,4-二甲基苯胺(2,4-xylidine) 23) 2,6-二甲基苯胺(2,6-xylidine)	GB 20400-2006 Cl. 5 &表 1 (可分解芳香胺染料) and Cl. 6.1 *Test procedures for compliance testing:* GB/T 19942-2019 (Techniques used are GC-MSD and HPLC-DAD)

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Chemical Testing 化學測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Products made of textile (exclude platic components)	Content of compounds based on chlorobenzenes and chlorotoluenes:- 2-Chlorotoluene 3-Chlorotoluene 4-Chlorotoluene 2,3-Dichlorotoluene 2,4-Dichlorotoluene 2,5-Dichlorotoluene 2,6-Dichlorotoluene 3,4-Dichlorotoluene 2,3,6-Trichlorotoluene 2,4,5-Trichlorotoluene Pentachlorotoluene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene 1,3,5-Trichlorobenzene 1,2,3,4-Tetrachlorobenzene 1,2,3,5-Tetrachlorobenzene 1,2,4,5-Tetrachlorobenzene Pentachlorobenzene Hexachlorobenzene	EN 17137:2018

SGS Hong Kong Limited
香港通用檢測認證有限公司

1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Chemical Testing 化學測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Leather	Chromium (VI) content	ISO 17075-1:2017 ISO 17075-2:2017
嬰幼兒及兒童紡織產品 Infants and children textile products	總鉛和總鎘含量 Total content of lead and cadmium	GB 31701-2015 Cl. 4.2 & 5.2 *Test procedures for compliance testing:* GB/T 30157-2013
	鄰苯二甲酸酯 The content of phthalate - 鄰苯二甲酸二丁酯 - Dibutyl phthalate (DBP) - 鄰苯二甲酸丁基苄基酯 - Benxyl butyl phthalate (BBP) - 鄰苯二甲酸二(2-乙基)己酯 - Di-(2ethylhexyl) phthalate (DEHP) - 鄰苯二甲酸二異壬酯 - Diisononyl phthalate (DINP) - 鄰苯二甲酸二辛酯 - Di-n-octyl phthalate (DnOP) - 鄰苯二甲酸二異癸酯 - Diisodecyl phthalate (DIDP)	GB 31701-2015 Cl. 4.2 & 5.3 *Test procedures for compliance testing:* GB/T 20388-2016
機織嬰幼兒服裝 Woven garments for infants	鄰苯二甲酸酯 The content of phthalate - 鄰苯二甲酸二丁酯 - Dibutyl phthalate (DBP) - 鄰苯二甲酸丁基苄基酯 - Benxyl butyl phthalate (BBP) - 鄰苯二甲酸二(2-乙基)己酯 - Di-(2ethylhexyl) phthalate (DEHP) - 鄰苯二甲酸二異壬酯 - Diisononyl phthalate (DINP) - 鄰苯二甲酸二辛酯 - Di-n-octyl phthalate (DnOP) - 鄰苯二甲酸二異癸酯 - Diisodecyl phthalate (DIDP)	GB/T 33271-2016 Cl. 4.13 & 5.4.6 *Test procedures for compliance testing:* GB/T 20388-2016
	總鉛和總鎘含量 Total content of lead and cadmium	GB/T 33271-2016 Cl. 4.13 & 5.4.7 *Test procedures for compliance testing:* GB/T 30157-2013

SGS Hong Kong Limited
香港通用檢測認證有限公司

1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Chemical Testing 化學測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
機織嬰幼兒服裝(續上) Woven garments for infants (cont'd)	芳香胺(偶氮染料)Amine (Azo colourants) : 1) 4-氨基聯苯(4-aminodiphenyl) 2) 聯苯胺(benzidine) 3) 4-氯鄰甲苯胺(4-chloro-o-toluidine) 4) 2-萘胺(2-naphthylamine) 5) 鄰氨基偶氮甲苯(2-aminoazotoluene) 6) 2-氨基-4-硝基甲苯(2-amino-4-nitrotoluene) 7) 對氯苯胺(p-chloroaniline) 8) 2,4-二氨基苯甲醚(2,4-diaminoanisole) 9) 4,4'-二氨基二苯甲烷 (4,4'-diaminodiphenylmethane) 10) 3,3'-二氯聯苯胺(3,3'-dichlorobenzidine) 11) 3,3'-二甲氧基聯苯胺 (3,3'-dimethoxybenzidine) 12) 3,3'-二甲基聯苯胺 (3,3'-dimethylbenzidine) 13) 3,3'-二甲基-4,4'二氨基二苯甲烷 (3,3'-dimethyl-4,4'-diaminodiphenylmethane) 14) 3-氨基對甲苯甲醚(p-克利酊)(p-cresidine) 15) 4,4'-次甲基-雙-(2-氯苯胺) [4,4'-methylene-bis-(2-chloroaniline)] 16) 4,4'-二氨基二苯醚(4,4'-oxydianiline) 17) 4,4'-二氨基二苯硫醚(4,4'-thiodianiline) 18) 鄰甲苯胺(2-toluidine) 19) 2,4'-二氨基甲苯(2,4-toluylenediamine) 20) 2,4,5-三甲基苯胺(2,4,5-trimethylaniline) 21) 鄰甲基苯胺(鄰氨基苯甲醚)(2-anisidine) 22) 2,4-二甲基苯胺(2,4-xylidine) 23) 2,6-二甲基苯胺(2,6-xylidine) 24) 4-氨基偶氮苯 (4-aminoazobenzene)	GB/T 21294-2014 Cl 3.4 for GB/T 33271-2016 Cl. 4.13 & 5.4.9 *Test procedures for compliance testing:* GB/T 17592-2011 (for determination of the first 23 amines listed on the left) GB/T 23344-2009 (for determination of 4-aminoazobenzene) Techniques used are GC-MSD and HPLC-DAD for all test methods listed above.
	可萃取重金屬含量 The content of extractable heavy metal - 銻(Sb), 砷(As), 鉛(Pb), 鎘(Cd), 鉻(Cr), 鈷(Co), 銅(Cu), 鎳(Ni), 汞(Hg) - Antimony(Sb), Arsenic(As), Lead (Pb), Cadmium (Cd), Chromium(Cr), Cobalt (Co), Copper(Cu), Nickel(Ni), Mercury(Hg)	GB/T 21294-2014 Cl 6.2.1 for GB/T 33271-2016 Cl. 4.13 & 5.4.9 *Test procedures for compliance testing:* GB/T 3922-2013 and ISO 17294-2:2003
	- 鉻(六價) - Cr(VI)	*Test procedures for compliance testing:* GB/T 17593.3-2006

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Chemical Testing 化學測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
兒童鞋 Children's footwear		
皮革和毛皮	六價鉻 Chromium (VI) content	GB 30585-2014 Cl. 5.3 & 6.6 *Test procedures for compliance testing:* GB/T 22807-2019
皮革和毛皮、紡織品	Amine (Azo colourants) : 1) 4-氨基聯苯(4-aminodiphenyl) 2) 聯苯胺(benzidine) 3) 4-氯鄰甲苯胺(4-chloro-o-toluidine) 4) 2-萘胺(2-naphthylamine) 5) 鄰氨基偶氮甲苯(2-aminoazotoluene) 6) 2-氨基-4-硝基甲苯(2-amino-4-nitrotoluene) 7) 對氯苯胺(p-chloroaniline) 8) 2,4-二氨基苯甲醚(2,4-diaminoanisole) 9) 4,4'-二氨基二苯甲烷 (4,4'-diaminodiphenylmethane) 10) 3,3'-二氯聯苯胺(3,3'-dichlorobenzidine) 11) 3,3'-二甲氧基聯苯胺 (3,3'-dimethoxybenzidine) 12) 3,3'-二甲基聯苯胺 (3,3'-dimethylbenzidine) 13) 3,3'-二甲基-4,4'二氨基二苯甲烷 (3,3'-dimethyl-4,4'-diaminodiphenylmethane) 14) 3-氨基對甲苯甲醚 (p-克利酊)(p-cresidine) 15) 4,4'-次甲基-雙-(2-氯苯胺) [4,4'-methylene-bis-(2-chloroaniline)] 16) 4,4'-二氨基二苯醚(4,4'-oxydianiline) 17) 4,4'-二氨基二苯硫醚(4,4'-thiodianiline) 18) 鄰甲苯胺(2-toluidine) 19) 2,4'-二氨基甲苯(2,4-toluylenediamine) 20) 2,4,5-三甲基苯胺(2,4,5-trimethylaniline) 21) 鄰甲基苯胺(鄰氨基苯甲醚)(2-anisidine) 22) 2,4-二甲基苯胺(2,4-xylidine) 23) 2,6-二甲基苯胺(2,6-xylidine) 24) 4-氨基偶氮苯 (4-aminoazobenzene)	For textile material: GB/T 17592-2011 (for determination of the first 23 amines listed on the left) GB/T 23344-2009 (for determination of 4-aminoazobenzene) For leather material: GB/T 19942-2019 (for determination of the first 23 amines listed on the left) GB/T 33392-2016 (for determination of 4-aminoazobenzene) Techniques used are GC-MSD and HPLC-DAD for all test methods listed above.
兒童鞋	重金屬總含量 Total heavy metal content	GB 30585-2014 Cl. 5.3 & 6.9 *Test procedures for compliance testing:* QB/T 4340-2012

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Chemical Testing 化學測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
兒童鞋 (續上) Children's footwear (cont'd)		
兒童鞋	富馬酸二甲酯 Dimethyl fumarate (DMF)	GB 30585-2014 Cl. 5.3 & 6.10 *Test procedures for compliance testing:* GB/T 26713-2011
嬰幼兒鞋的橡膠部件	N-亞硝基胺 N-nitrosamines - N-亞硝基二甲胺 N-nitrosodimethylamine (NDMA) - N-亞硝基二乙胺 N-nitrosodiethylamine (NDEA) - N-亞硝基二丙胺 N-nitrosodipropylamine (NDPA) - N-亞硝基二丁胺 N-nitrosodibutylamine (NDBA) - N-亞硝基呱啶 N-nitrosopiperidine (NPIP) - N-亞硝基吡咯烷 N-nitrosopyrrolidine (NPYR) - N-亞硝基嗎啉 N-nitrosomorpholine (NMOR) - N-亞硝基-N-甲基-N-苯胺 N-nitroso-N-methyl-N-phenylamine (NMPhA) - N-亞硝基-N-乙基-N-苯胺 N-nitroso-N-ethyl-N-phenylamine(NEPhA)	GB 30585-2014 Cl. 5.3 & 6.11 *Test procedures for compliance testing:* GB/T 24153-2009
兒童鞋和嬰幼兒鞋	鄰苯二甲酸酯 The content of phthalate - 鄰苯二甲酸二丁酯 Dibutyl phthalate (DBP) - 鄰苯二甲酸丁基苄基酯 Benxyl butyl phthalate (BBP) - 鄰苯二甲酸二(2-乙基)己酯 Di-(2ethylhexyl) phthalate (DEHP) - 鄰苯二甲酸二異壬酯 Diisononyl phthalate (DINP) - 鄰苯二甲酸二辛酯 Di-n-octyl phthalate (DnOP) - 鄰苯二甲酸二異癸酯 Diisodecyl phthalate (DIDP)	GB 30585-2014 Cl. 5.3 & 6.12 *Test procedures for compliance testing:* ISO 16181-1: 2021 ***<excluding the following>*** Cl. 8.1.2

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Chemical Testing 化學測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
布面童膠鞋 Children's canvas rubber footwear		
鞋面、鞋里、內底鞋 （紡織材料、合成革和人造革）	可萃取的重金屬鉛(Pb)、鎘(Cd)、砷(As) Extractable heavy metal Lead (Pb), Cadmium (Cd), Arsenic (As)	GB 25036-2010 Cl. 5.2 & 6.1.3 *Test procedures for compliance testing:* GB/T 17593.2-2007
	Amine (Azo colourants) : 1) 4-氨基聯苯(4-aminodiphenyl) 2)聯苯胺(benzidine) 3) 4-氯-鄰甲苯胺(4-chloro-o-toluidine) 4) 2-萘胺(2-naphthylamine) 5)鄰氨基偶氮甲苯(o-aminoazotoluene) 6) 2-氨基-4-硝基甲苯(2-amino-4-nitrotoluene) 7)對氯苯胺(p-chloroaniline) 8) 2,4-二氨基苯甲醚(2,4-diaminoanisole) 9) 4,4'-二氨基二苯甲烷 (4,4'-diaminodiphenylmethane) 10) 3,3'-二氯聯苯胺(3,3'-dichlorobenzidine) 11) 3,3'-二甲氧基聯苯胺 (3,3'-dimethoxybenzidine) 12) 3,3'-二甲基聯苯胺 (3,3'-dimethylbenzidine) 13) 3,3'-二甲基-4,4'-二氨基二苯甲烷 (3,3'-dimethyl-4,4'-diaminodiphenylmethane) 14) 對甲酚定(p-cresidine) 15) 4,4-亞甲基-二-(2-氯苯胺) [4,4'-methylene-bis-(2-chloroaniline)] 16) 4,4'-氧化二苯胺(4,4'-oxydianiline) 17) 4,4'-硫化二苯胺(4,4'-thiodianiline) 18)鄰甲苯胺(o-toluidine) 19) 2,4-二氨基甲苯(2,4-diaminotoulene) 20) 2,4,5-三甲基苯胺(2,4,5-trimethylaniline) 21)鄰甲氧基苯胺 (o-anisidine) 22) 2,4-二甲基苯胺(2,4-xylidine) 23) 2,6-二甲基苯胺(2,6-xylidine)	GB 25036-2010 Cl. 5.2 & 6.1.4 *Test procedures for compliance testing:* GB/T 17592-2006 (Techniques used are GC-MSD and HPLC-DAD)
	五氯苯酚(PCP)、2,3,5,6-四氯苯酚(TeCP) Pentachlorophenol (PCP), 2,3,5,6-Tetrachlorophenol (TeCP)	GB 25036-2010 Cl. 5.2 & 6.1.5 *Test procedures for compliance testing:* GB/T 18414.2-2006

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Chemical Testing 化學測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
布面童膠鞋 (續上) Children's canvas rubber footwear (cont'd)		
膠製部件	N-亞硝基胺 N-nitrosamines - N-亞硝基二甲胺 N-nitrosodimethylamine (NDMA) - N-亞硝基二乙胺 N-nitrosodiethylamine (NDEA) - N-亞硝基二丙胺 N-nitrosodipropylamine (NDPA) - N-亞硝基二丁胺 N-nitrosodibutylamine (NDBA) - N-亞硝基呱啶 N-nitrosopiperidine (NPIP) - N-亞硝基吡咯烷 N-nitrosopyrrolidine (NPYR) - N-亞硝基嗎啉 N-nitrosomorpholine (NMOR) - N-亞硝基-N-甲基-N-苯胺 N-nitroso-N-methyl-N-phenylamine (NMPhA) - N-亞硝基-N-乙基-N-苯胺 N-nitroso-N-ethyl-N-phenylamine(NEPhA)	GB 25036-2010 Cl. 5.2 & 6.1.6 *Test procedures for compliance testing:* GB/T 24153-2009

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Chemical Testing 化學測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
膠鞋 Rubber shoes		
鞋面、鞋里、內底鞋 （紡織材料、合成革和人造革）	可萃取的重金屬鉛(Pb)、鎘(Cd)、砷(As) Extractable heavy metal Lead (Pb), Cadmium (Cd), Arsenic (As)	GB 25038-2010 Cl. 5 & 6.3 *Test procedures for compliance testing:* GB/T 17593.2-2007
	Amine (Azo colourants) : 1) 4-氨基聯苯(4-aminobiphenyl) 2) 聯苯胺(benzidine) 3) 4-氯-鄰甲苯胺(4-chloro-o-toluidine) 4) 2-萘胺(2-naphthylamine) 5) 鄰氨基偶氮甲苯(o-aminoazotoluene) 6) 2-氨基-4-硝基甲苯(2-amino-4-nitrotoluene) 7) 對氯苯胺(p-chloroaniline) 8) 2,4-二氨基苯甲醚(2,4-diaminoanisole) 9) 4,4'-二氨基二苯甲烷 (4,4'-diaminodiphenylmethane) 10) 3,3'-二氯聯苯胺(3,3'-dichlorobenzidine) 11) 3,3'-二甲氧基聯苯胺 (3,3'-dimethoxybenzidine) 12) 3,3'-二甲基聯苯胺 (3,3'-dimethylbenzidine) 13) 3,3'-二甲基-4,4'-二氨基二苯甲烷 (3,3'-dimethyl-4,4'-diaminodiphenylmethane) 14) 對甲酚定 (p-cresidine) 15) 4,4'-亞甲基-二-(2-氯苯胺) [4,4'-methylene-bis-(2-chloroaniline)] 16) 4,4'-氧化二苯胺(4,4'-oxydianiline) 17) 4,4'-硫化二苯胺(4,4'-thiodianiline) 18) 鄰甲苯胺(o-toluidine) 19) 2,4-二氨基甲苯胺(2,4-diaminotolulene) 20) 2,4,5-三甲基苯胺(2,4,5-trimethylaniline) 21) 鄰茴香胺(o-anisidine) 22) 2,4-二甲基苯胺(2,4-xylidine) 23) 2,6-二甲基苯胺(2,6-xylidine)	GB 25038-2010 Cl. 5 & 6.4 *Test procedures for compliance testing:* GB/T 17592-2006 (Techniques used are GC-MSD and HPLC-DAD)
	五氯苯酚(PCP)、2,3,5,6-四氯苯酚(TeCP) Pentachlorophenol (PCP), 2,3,5,6-Tetrachlorophenol (TeCP)	GB 25038-2010 Cl. 5 & 6.5 *Test procedures for compliance testing:* GB/T 18414.2-2006

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Chemical Testing 化學測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
膠鞋 (續上) Rubber shoes (cont'd)		
膠製部件	N-亞硝基胺 N-nitrosamines - N-亞硝基二甲胺 N-nitrosodimethylamine (NDMA) - N-亞硝基二乙胺 N-nitrosodiethylamine (NDEA) - N-亞硝基二丙胺 N-nitrosodipropylamine (NDPA) - N-亞硝基二丁胺 N-nitrosodibutylamine (NDBA) - N-亞硝基呱啶 N-nitrosopiperidine (NPIP) - N-亞硝基吡咯烷 N-nitrosopyrrolidine (NPYR) - N-亞硝基嗎啉 N-nitrosomorpholine (NMOR) - N-亞硝基-N-甲基-N-苯胺 N-nitroso-N-methyl-N-phenylamine (NMPhA) - N-亞硝基-N-乙基-N-苯胺 N-nitroso-N-ethyl-N-phenylamine(NEPhA)	GB 25038-2010 Cl. 5 & 6.6 *Test procedures for compliance testing:* GB/T 24153-2009

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Chemical Testing 化學測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Leather materials in protective gloves	- Chromium (VI) content	ISO 21420:2020 Cl. 4.2a *Test procedures for compliance testing:* ISO 17075-1:2017 ISO 17075-2:2017
Metallic materials in protective gloves which could come into prolonged contact with the skin	- Release of nickel	ISO 21420:2020 Cl. 4.2b *Test procedures for compliance testing:* EN 1811:2011+A1:2015
Protective glove materials	- pH value	ISO 21420:2020 Cl. 4.2c *Test procedures for compliance testing:* For leather products: ISO 4045:2018 <***excluding the following***> Cl. 8.4 For other materials: ISO 3071:2020
Textile and leather materials in protective gloves	- Amine (Azo colourants) : 1) 4-aminodiphenyl 2) benzidine 3) 4-chloro-o-toluidine 4) 2-naphthylamine 5) o-aminoazotoluene 6) 5-nitro-o-toluidine 7) 4-chloroaniline 8) 4-methoxy-m-phenylenediamine 9) 4,4'-diaminodiphenylmethane 10) 3,3'-dichlorobenzidine 11) 3,3'-dimethoxybenzidine 12) 3,3'-dimethylbenzidine 13) 4,4'-methylenedi-o-toliodone 14) p-cresidine 15) 4,4'-methylene-bis-(2-chloroaniline) 16) 4,4'-oxydianiline 17) 4,4'-thiodianiline 18) o-toluidine 19) 4-methyl-m-phenylenediamine 20) 2,4,5-trimethylaniline 21) 2-methoxyaniline 22) 2,4-xylidine 23) 2,6-xylidine 24) 4-aminoazobenzene	ISO 21420:2020 Cl. 4.2d *Test procedures for compliance testing:* For leather products: ISO 17234-1:2020 (for determination of the first 23 amines listed on the left) ISO 17234-2: 2011 (for determination of 4-aminoazobenzene) For textile products: ISO 14362-1:2017 (for determination of the first 21 amines listed on the left) ISO 14362-3: 2017 (for determination of 4-aminoazobenzene) Techniques used are GC-MSD and HPLC-DAD for all test methods listed above.

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Chemical Testing 化學測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Protective gloves materials containing PU	- Dimethylformamide	ISO 21420:2020 Cl. 4.2e *Test procedures for compliance testing:* EN 16778:2016
Rubber or plastic materials in protective gloves that intended to come in direct contact with the skin	- Polycyclic aromatic hydrocarbons (PAHs) Benzo[a]pyrene Benzo[e]pyrene Benzo[a]anthracene Chrysene Benzo[b]fluoranthene Benzo[j]fluoranthene Benzo[k]fluoranthene Dibenzo[a,b]anthracene	ISO 21420:2020 Cl. 4.2f *Test procedures for compliance testing:* ISO 16190:2021
Footwear	The content of phthalate: - Dibutyl phthalate (DBP) Benxyl butyl phthalate (BBP) Di-(2ethylhexyl) phthalate (DEHP) Diisodecyl phthalate (DIDP) Diisononyl phthalate (DINP) Di-n-octyl phthalate (DnOP) Diisobutyl phthalate (DIBP)	ISO 16181-1:2021 ***<excluding the following>*** Cl. 8.1.2

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Chemical Testing 化學測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Leather protective clothing	- Chromium (VI) content	ISO 13688:2013/Amd. 1: 2021 Cl. 4.2a *Test procedures for compliance testing:* ISO 17075-1:2017 ISO 17075-2:2017
Metallic material in protective clothing which could come into prolonged contact with the skin	- Release of nickel	ISO 13688:2013/Amd. 1: 2021 Cl. 4.2b *Test procedures for compliance testing:* EN 1811:2011+A1:2015
Protective clothing material	- pH value	ISO 13688:2013/Amd. 1: 2021 Cl. 4.2c *Test procedures for compliance testing:* For leather products: ISO 4045:2018 For textile materials: ISO 3071:2020
Textile materials in protective clothing	- Amine (Azo colourants) : 1) 4-aminodiphenyl 2) benzidine 3) 4-chloro-o-toluidine 4) 2-naphthylamine 5) o-aminoazotoluene 6) 5-nitro-o-toluidine 7) 4-chloroaniline 8) 4-methoxy-m-phenylenediamine 9) 4,4'-diaminodiphenylmethane 10) 3,3'-dichlorobenzidine 11) 3,3'-dimethoxybenzidine 12) 3,3'-dimethylbenzidine 13) 4,4'-methylenedi-o-toliodone 14) p-cresidine 15) 4,4'-methylene-bis-(2-chloroaniline) 16) 4,4'-oxydianiline 17) 4,4'-thiodianiline 18) o-toluidine 19) 4-methyl-m-phenylenediamine 20) 2,4,5-trimethylaniline 21) 2-methoxyaniline 22) 4-aminoazobenzene	ISO 13688:2013/Amd. 1: 2021 Cl. 4.2d *Test procedures for compliance testing:* ISO 14362-1:2017 (for determination of the first 21 amines listed on the left) ISO 14362-3: 2017 (for determination of 4-aminoazobenzene) Techniques used are GC-MSD and HPLC-DAD for all test methods listed above

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Chemical Testing 化學測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Plastic materials	Cadmium content	Regulation (EC) No. 1907/2006 on REACH Annex XVII Item No 23 as amended by Commission Regulation (EC) No. 494/2011 and Corr. Netherlands Law Gazette 1999 No. 149 and Amd. In September 2000 No. 186 (Chemical Substances Act Cadmium Decree) Swedish Ordinance SFS 1985: 839 Switzerland Environmentally Hazardous Substances (Ordinance on Substances) Annex 4.11 for cadmium content *Test procedures for compliance testing:* EN 1122:2001 Method B (wet decomposition) BS EN 1122: 2001 Method B (wet decomposition)
Products intended to come into direct and prolonged contact with the skin and piercing post assemblies	Release of nickel	Regulation (EC) No. 1907/2006 on REACH Annex XVII Item No 27 as amended by Commission Regulation (EC) No. 552/2009 *Test procedures for compliance testing:* BS EN 1811: 2023 EN 1811:2023
Coated articles that come into direct and prolonged contact with the skin (excluding articles with an outer coating containing nickel and those which are inserted into pierced ears and other parts of the human body)	Release of nickel	Regulation (EC) No. 1907/2006 on REACH Annex XVII Item No 27 as amended by Commission Regulation (EC) No. 552/2009 *Test procedures for compliance testing:* BS EN 12472: 2020 & BS EN 1811: 2023 EN 12472: 2020 & EN 1811: 2023

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Chemical Testing 化學測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Spectacle frames	Release of nickel	BS EN ISO 12870:2018 Cl. 4.2.3 and 5.2 EN ISO 12870: 2018 Cl. 4.2.3 and 5.2 ISO 12870:2016 Cl. 4.2.3 and 5.2 *Test procedures for compliance testing:* EN 16128:2015 **<*Excluding Cl.7*>** EN 12472: 2020 & EN 16128:2015 **<*Excluding the following*>** Cl.7 of EN 16128:2015
Spectacle frames of sunglass	Release of nickel	EN ISO 12312-1: 2013+A1: 2015 Cl. 4.3 in conjunction with BS EN ISO 12870: 2018 Cl. 4.2.3 and 5.2 ISO 12312-1: 2013+A1: 2015 CI. 4.3 in conjunction with ISO 12870: 2016 Cl. 4.2.3 and 5.2 *Test procedures for compliance testing:* EN 16128: 2015 **<*Excluding Cl.7*>** EN 12472: 2020 & EN 16128:2015 **<*Excluding the following*>** Cl.7 of EN 16128:2015
Surface coating materials		Canada Consumer Product Safety Act (S.C. 2010, c. 21) Surface Coating Materials Regulations (SOR/2016-193) as amended by SOR/2022-122, Sections 2 and Section 5 *Test procedures for compliance testing:*
	- Total lead content	Canada Health Product Safety Reference Manual Book 5 –Laboratory Policies and Procedures, Part B: Test Methods Section, Method C-02.2.1 Determination of Total Lead in Surface Coating Materials in Consumer Products by Inductively Coupled Plasma Mass Sepctrometry (ICP-MS) (2021-06-02)
	- Total mercury content	Canada Health Product Safety Reference Manual Book 5 –Laboratory Policies and Procedures, Part B: Test Methods Section, Method C-07 Determination of Total Mercury in Surface Coating Materials, Applied Coatings and Cosmetic Samples by Direct Mercury Analyzer Wide Range (DMA 80 WR) (2023-07-19)

SGS Hong Kong Limited
香港通用檢測認證有限公司

1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Chemical Testing 化學測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Hot water bottles manufactured from rubber and PVC	- Migration of the elements Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	BS 1970:2012 Clause 3
	Tests for toxic elements :	
Cosmetic Products (Toner, cream, nail polish for beauty purpose)	Arsenic, Cadmium, Lead, Mercury, Antimony, Copper	In-house method CSHM1-001 (ICP-OES)

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Chinese Medicine 中藥

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Proprietary Chinese medicines and Chinese herbal medicines	Toxic elements: Arsenic, Cadmium, Lead, Mercury, Copper, Antimony, Tin, Chromium	In-house Method TCMHM1-001 (ICP-OES) In-house Method TCMHM2-001 (ICP-MS)
	Pesticides residues - Organochlorine pesticides: Aldrin, Dieldrin, Endrin, cis-Chlordane, trans-Chlordane, Oxychlordane, Heptachlor, Heptachlor epoxide, Hexachlorocyclohexane isomers (alpha-, beta- and delta-BHC), Lindane, Hexachlorobenzene, Methyl pentachlorophenyl sulphide, Pentachloroaniline, Quintozene (pentachloronitrobenzene), 2,4'-DDT, 4,4'-DDT, 4,4'-DDE and 4,4'-DDD, Endosulfan I, Endosulfan II, Endosulfan sulphate, Methoxychlor	In-house method TCMPEST1-002 (GC-MSD)
Proprietary Chinese Medicines	Microbiological tests :-	
	- 微生物限度檢查法 Microbial Limit Test 細菌數 Aerobic bacteria count 黴菌與酵母菌數 Mold and Yeast count 大腸桿菌 *E. coli* 沙門菌 *Salmonella species* 銅綠假單胞菌 *Pseudomonas aeruginosa* 金黃色葡萄球菌 *Staphylococcus aureus*	中華人民共和國藥典2000年版一部附錄 XIIIC Pharmacopoeia of the People's Republic of China 2000, Volume I, App. XIIIC
	- 微生物限度檢查法 Microbial Limit Test 細菌數 Aerobic bacteria count 黴菌與酵母菌數 Mold and Yeast count 大腸埃希菌 *E. coli* 沙門菌 *Salmonella* 銅綠假單胞菌 *Pseudomonas aeruginosa* 金黃色葡萄球菌 *Staphylococcus aureus* 大腸菌群 *Coliform* 梭菌 *Clostridium*	中華人民共和國藥典 2005 年版一部附錄 XIIIC Pharmacopoeia of the People's Republic of China 2005, Volume I, App. XIII C

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Chinese Medicine 中藥		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Microbiological tests :- (cont'd)	
Proprietary Chinese Medicines	- 微生物限度檢查法 Microbial Limit Test 細菌數 Aerobic bacteria count 黴菌與酵母菌數 Mold and Yeast count 大腸埃希菌 *E. coli* 沙門菌 *Salmonella* 銅綠假單胞菌 *Pseudomonas aeruginosa* 金黃色葡萄球菌 *Staphylococcus aureus* 大腸菌群 *Coliform* 梭菌 *Clostridium* 白色念珠菌 *Candida albicans*	中華人民共和國藥典2010年版一部附錄 XIIIC (中文版) Pharmacopoeia of the People's Republic of China 2010, Volume I, App. XIII C (Chinese Edition)
Proprietary Chinese Medicines (Non-sterile products)	非無菌药品微生物限度標準 Microbial Limits for Non-sterile Pharmaceutical Products	中華人民共和國藥典2015年版四部通則 (中文版) 1107段 Pharmacopoeia of the People's Republic of China 2015, Volume IV (Chinese Edition) 1107
	- 微生物計數法 Microbial Enumeration tests - 需氧菌總數 Total Aerobic Microbial Count - 黴菌與酵母菌數 Total Combined Yeasts and Molds Count	*Test Procedures for compliance testing*: 中華人民共和國藥典2015年版四部通則 (中文版) 1105段 Pharmacopoeia of the People's Republic of China 2015, Volume IV (Chinese Edition) 1105
	- 控制菌檢查法 Test for specified microorganisms - 金黃色葡萄球菌 *Staphylococcus aureus* - 銅綠假單胞菌 *Pseudomonas aeruginosa* - 大腸埃希菌 *Escherichia coli* - 沙門菌 *Salmonella* - 耐膽鹽革蘭陰性菌 Bile-Tolerant Gram-Negative Bacteria - 梭菌 *Clostridia* - 白色念珠菌 *Candida albicans*	中華人民共和國藥典2015年版四部通則 (中文版) 1106段 Pharmacopoeia of the People's Republic of China 2015, Volume IV (Chinese Edition) 1106

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Chinese Medicine 中藥

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Microbiological tests :- (cont'd)	
Proprietary Chinese Medicines (pCM) (Non-sterile products)		
非無菌不含藥材原粉的中藥製劑 Non-sterile pCm products without crude drug powder	非無菌药品微生物限度標準 Microbial Limits for Non-sterile Pharmaceutical Products	中華人民共和國藥典 2020 年版四部通則 (中文版) 1107段點3及點8 Pharmacopoeia of the People's Republic of China 2020, Volume IV (Chinese Edition) 1107 Cl. 3 & Cl. 8
非無菌含藥材原粉的中藥製劑 Non-sterile pCm products with crude drug powder		中華人民共和國藥典 2020 年版四部通則 (中文版) 1107段點4及點8 Pharmacopoeia of the People's Republic of China 2020, Volume IV (Chinese Edition) 1107 Cl. 4 & Cl. 8
非無菌藥用原料及輔料 Non-sterile pCm Substances for Pharmaceutical Use		中華人民共和國藥典 2020 年版四部通則 (中文版) 1107段點5及點8 Pharmacopoeia of the People's Republic of China 2020, Volume IV (Chinese Edition) 1107 Cl. 5 & Cl. 8
中藥提取物 Chinese Medicine Extracts		中華人民共和國藥典 2020 年版四部通則 (中文版) 1107段點6及點8 Pharmacopoeia of the People's Republic of China 2020, Volume IV (Chinese Edition) 1107 Cl. 6 & Cl. 8
		Test Procedures for compliance testing:
	- 微生物計數法 Microbial Enumeration tests - 需氧菌總數 Total Aerobic Microbial Count - 黴菌與酵母菌數 Total Combined Yeasts and Molds Count	中華人民共和國藥典 2020 年版四部通則 (中文版) 1105段 Pharmacopoeia of the People's Republic of China 2020, Volume IV (Chinese Edition) 1105
	- 控制菌檢查法 Test for specified microorganisms - 金黃色葡萄球菌 *Staphylococcus aureus* - 銅綠假單胞菌 *Pseudomonas aeruginosa* - 大腸埃希菌 *Escherichia coli* - 沙門菌 *Salmonella* - 梭菌 *Clostridia* - 白色念珠菌 *Candida albicans* - 耐膽鹽革蘭陰性菌 Bile-Tolerant Gram-Negative Bacteria	中華人民共和國藥典 2020 年版四部通則 (中文版) 1106段 Pharmacopoeia of the People's Republic of China 2020, Volume IV (Chinese Edition) 1106

SGS Hong Kong Limited
香港通用檢測認證有限公司

1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Consumer products containing button batteries or coin cell batteries	Safety tests :- - Compliance inspection and safety tests	16 CFR 1263 in conjunction with ANSI/UL 4200A-2023 ANSI/UL 4200A-2023

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Physical Examination :-	
Water and Wastewater	- Colour	APHA 23e 2120 B *<excluding>* Cl. 1d and 1e
	- Dissolved Oxygen	APHA 23e 4500-OB & C
	- pH value	APHA 23e 4500-H^+B
	- Total Suspended Solids dried at 103℃ - 105℃	APHA 17e 2540D APHA 23e 2540D In-house method ENV-TSS-003
	- Conductivity	APHA 23e 2510 B
	- Turbidity	APHA 23e 2130 B
	Non-metallic Constituents :-	
Water and Wastewater	- Chloride	APHA 23e 4500-Cl^- B
	- Total residual chlorine	APHA 23e 4500-Cl G
	- Free residual chlorine	APHA 23e 4500-Cl G
	- Nitrogen - Ammonia	In-house method ENV-NH3-002 (By FIA)
	- Nitrogen - Nitrate	In-house method ENV-NO3-002 (By FIA)
	- Nitrogen - Nitrite	In-house method ENV-NO3-002 (By FIA)
	- Nitrogen - Nitrite + Nitrate	In-house method ENV-NO3-002 (By FIA)
	- Sulfate	APHA 23e 4500 SO_4^{2-} E

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Organic Pollutants :-	
Water and Wastewater (cont'd)	- Biochemical Oxygen Demand	APHA 23e 5210 B BS 6068, Section 2.63:1998
	- Chemical Oxygen Demand	APHA 23e 5220 B (Open reflux) In house method ENV-COD-002 (Closed reflux)
	- Oil and grease	APHA 23e 5520B
	- Anionic surfactant	APHA 23e 5540 B & C
	- Non-ionic surfactant	BS6068-Section 2.24:1986
	- Total surfactant (anionic and non-ionic)	In-house method ENV-SURFACTANTS-003 (By calculation)
	Trace metals : - (Dissolved and total recoverable)	
	- Antimony, Arsenic, Barium, Cadmium, Chromium, Copper, Lead, Mercury, Nickel, Selenium, Manganese and Zinc	In house method ENV-M-001 (ICP-MS)
	- Iron	In house method ENV-M-002 (ICP-OES)
	Physical Examination: -	
Saline water	- Total Suspended Solids dried at 103℃ - 105℃	APHA 23e 2540D In-house method ENV-TSS-003
	TCLP Metals : (Toxicity Characteristic Leaching Procedures)	
Soil and Sediment	- Extraction procedure	USEPA SW-846 Method 1311 (Revision 0, July 1992)
	- Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Copper, Lead, Mercury, Nickel, Selenium, Silver, Thallium, Tin, Vanadium, Zinc	In-house method ENV-TCLP-002 (by ICP-OES) (by ICP-MS)

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Microbiological tests:-	
Water and Wastewater (cont'd)	- Total *Coliform* counts	DoE(1983) The Bacteriological Examination of Drinking Water Supplies, 1983 (Membrane Filtration Procedure: Sections 7.8, 7.9.4.1 Bacterial Confirmation: Section 7.9.4.3) DoE/DH/PHLS The Microbiology of Water (1994) Part 1 Drinking Water Section 7.5 & 7.7 (Membrane Filtration Method)
	- Heterotrophic plate count (35°C)	APHA 24e 9215B (Pour Plate Method)
	- *E. coli* count	DoE (1983) The Bacteriological Examination of Drinking Water Supplies, 1983 (Membrane Filtration Procedure: Sections 7.8, 7.9.4.2; Bacterial Confirmation: Section 7.9.4.4) DoE (1983) The Bacteriological Examination of Drinking Water Supplies, 1983 (Membrane Filtration Procedure: Sections 7.8, 7.9.4.2; Bacterial Confirmation: Section: in situ urease test) DoE/DH/PHLS The Microbiology of Water (1994) Part 1 Drinking Water Section 7.5 & 7.7 (Membrane Filtration Method followed by in situ urease test)
Water, Wastewater and Marine Water	- *E. coli* count - Fecal Coliform count	Environmental Microbiology Laboratory Test Method Manual TM09/EC/10/098 Issue 3, Environmental Protection Department, HK

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Microbiological tests:-	
Water, Wastewater and cooling tower water	- Legionellae count including *Legionella Pneumophila count*	AS/NZS 3896: 1998 AS/NZS 3896: 1991 (Membrane Filtration method) AS 3896: 2017
Potable water and treated water	- Legionellae count including *Legionella Pneumophila count*	ISO 11731:2017(E) (Diect membrane filtration method)
Collectate sampled by SAS Super 180TM Air Sampler	Airborne Bacteria Count (adjusted number of colonies on agar plate) (30℃ for 2 days)	In-house method FM_Air_ABC(SAS)

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Toxicology tests :-	
Food containers (Ceramicware)	- Leachable lead and cadmium	US FDA CPG Sec. 545.400 and CPG Sec. 545.450 Pottery (Ceramics) - Leachable Lead and Cadmium *Test procedures for compliance testing:-* AOAC Official Methods 973.32 (2005) AOAC Official Methods 973.82 (2005) European Communities Council Directive 84/500/EEC and amendment European Commission Directive 2005/31/EC EN 1388-1: 1995 BS EN 1388-1:1996 DIN EN 1388-1: 1995 UK The Ceramic Ware (Safety) Regulations SI 1179 : 2006
Food containers (Glazed Ceramic and Glassware)	- Leachable lead and cadmium	Health Canada Product Safety Reference Manual Book 5 – Laboratory Policies and Procedures Part B: Test Methods Section, Method C-10 Determination of Leachable Lead and Cadmium from Glazed ceramics and Glassware (2014-01-06)
Food containers (Glazed Ceramic and Glassware)	- Leachable lead and cadmium	ISO 6486-1:2019
Food containers (Glazed Ceramic and Glassware)	- Leachable lead and cadmium	ISO 6486-2:1999 *Test procedure for compliance testing:* ISO 6486-1:1999
Food containers (Silicate surfaces – Other than ceramicware)	- Leachable lead and cadmium	EN 1388-2:1995 BS EN 1388-2:1996 DIN EN 1388-2: 1995
Food containers (Ceramic, glass, glass-ceramic, vitreous enamelware)	- Leachable lead and cadmium	BS 6748: 1986 + A1(2011)

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Toxicology tests (cont'd) :-	
Food containers (Glazed ceramicware)	- Leachable lead and cadmium	BS 4860: Parts 1 and 2: 1972
Food containers (Ceramic cookware)	- Leachable lead and cadmium	AOAC Official Methods 984.19 (2000) ISO 8391/1 – 1986 ISO 8391/2 – 1986
Food containers (ceramic tableware and cookware)	- Leachable lead and cadmium	Australian Commonwealth Consolidated Regulations - Customs (Prohibited Imports) Regulations 1956, Reg. 4E *Test procedures for compliance testing:-* BS 4860: Parts 1 and 2: 1972
Food containers (lip & rim areas of glass tumblers)	- Leachable lead and cadmium	ASTM C927 - 80 (2019)e1
Food containers (lip & rim areas for silicate surfaces)	- Leachable lead and cadmium	EN 1388-2: 1995 BS EN 1388-2: 1996 DIN EN 1388-2: 1995
Food containers (glass, ceramic and enamel ware)	- Leachable Cadmium and Lead	The specification and standards for foods, food additives, etc., Ministerial Announcement No. 370 of 1959, Part III "Implements, Containers, and Packaging" by Ministry of Health, Labour and Welfare with update of "Outline of the 31st July 2008 revision of the specifications for glass, ceramic and enameled equipment and containers which come into contact with food, based on the Food Sanitation Law JAPAN" *Test procedures for compliance testing:* Foodstuffs, Implements, Containers and Packaging, Specifications, Standards and Testing Methods for Toys, Detergents, JETRO January 2009 (based on the tentative English translation published by JETRO, January 2009) PART II - Standards and Testing Methods for Implements, Containers and Packaging. Section D-1

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Toxicology tests (cont'd):-	
Food containers (Plastic products intended to come into direct contact with food)	- Overall migration test: test media:- Distilled water 3% acetic acid, simulant B 10% ethanol, simulant A 50% ethanol, simulant D1 95% ethanol or iso-octane: volatile test medium in substitute tests	Commission Regulation (EU) No. 10/2011, Article 12, paragraph 4 & 7 of Article 18 and Annex III, Chapter 3 of Annex V, as amended by Commission Regulation (EU) No. 2016/1416, Commission Regulation (EU) No. 2017/752, Commission Regulation (EU) No. 2019/37 and Commission Regulation (EU) No. 2020/1245 AS 2070: 1999, Cl. 4.1.1. (b) *Test procedures for compliance testing:-* EN 1186-1: 2002 EN 1186-3: 2022 (Method 1a: Total immersion in conventional oven) EN 1186-3: 2022 (Method 2: Cell) EN 1186-3: 2022 (Method 5: Filling a container) German Official Compendium for Examination Methods, §35 LMBG B80.30-1 (EG), §64 LFGB B80.30-1 (EG) ***<Excluding "Pouch Method" & "Alternative tests">***
	Rectified olive oil	EN 1186-2: 2022 (Method 1: Total immersion) EN 1186-2: 2022 (Method 2: Cell) EN 1186-2: 2022 (Method 5: Filling a container)

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Chemical composition:-	
General food	- Total dietary fibre	AOAC Official Methods 985.29 (2005)
Flour	- Ash	AOAC Official Methods 923.03 (2005)
Meat	- Ash	AOAC Official Methods 920.153 (2005) and AOAC Official Methods 923.03 (2005)
Sugars and syrups	- Ash	AOAC Official Methods 900.02A (2005)
Meat	- Crude protein - Nitrogen	In-house method Food.011 (Block Digestion Method)
Cacao Products	- Fat	AOAC Official Methods 963.15 (2006)
Dried milk	- Fat	AOAC Official Methods 932.06 (2005)
Ice cream and frozen desserts	- Fat	AOAC Official Methods 952.06 (2005)
Milk	- Fat	AOAC Official Methods 989.05 (2005)
Flour	- Fat	AOAC Official Methods 922.06 (2005)
Meat and seafood	- Fat	AOAC Official Methods 948.15 (2005)
Animal feed	- Moisture	AOAC Official Methods 930.15 (2005)
Meat	- Moisture	AOAC Official Methods 950.46B (2008)
Flour	- Moisture	AOAC Official Methods 925.10 (2008)
Sugar	- Moisture	AOAC Official Methods 925.45B (2008) and AOAC Official Methods 920.175 (2006)
General foodstuff	- Sodium	In house method CTS-FD-102-2

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Chemical composition (cont'd):-	
General foodstuff (excluding honey)	- Sugars : - glucose, galactose, fructose, sucrose, maltose, lactose	In house method CTS-FD-217-2 (By HPLC-RI)
General foodstuff	- Saturated fatty acids ($C_{4:0}$, $C_{6:0}$, $C_{8:0}$, $C_{10:0}$, $C_{12:0}$, $C_{14:0}$, $C_{15:0}$, $C_{16:0}$, $C_{17:0}$, $C_{18:0}$, $C_{20:0}$, $C_{22:0}$, $C_{24:0}$)	AOAC Official Method 996.06 (2008) (Hydrolytic extraction gas chromatography)
	- Trans fatty acids ($C_{14:1T}$(9-*trans*), $C_{16:1T}$(9-*trans*), $C_{18:1T}$(total), $C_{18:2TT}$(9,12-*trans*), $C_{18:2T}$(9-*cis*,12-*trans*), $C_{18:2T}$(9-*trans*,12-*cis*), $C_{20:1T}$(11-*trans*), $C_{22:1T}$(13-*trans*))	AOAC Official Method 996.06 (2008) (Hydrolytic extraction gas chromatography)
	Organic contaminants:-	
General foodstuff	- Melamine	In house method CTS-FD-215-3 (by LC-MS/MS)
	Preservatives :-	
General foodstuff	- Benzoic acid, Sorbic acid, Salicylic acid, Methyl para-hydroxybenzoate, Ethyl para-hydroxybenzoate and Propyl para-hydroxybenzoate	In house methods CTS-FD-220-1 (by HPLC/DAD)
	- Propionic acid	In-house method CTS-FD-211-1 (By GC/FID)
	- Boric acid	In-house method Food.002 (Titrimetric method)
	- Sulphur dioxide	AOAC Official Method 975.32 (2005) AOAC Official Method 990.28 (2005)

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Metallic contaminants :-	
General foodstuff	Antimony, Arsenic, Cadmium, Chromium, Lead, Mercury and Tin	In house method CTS-FD-102-1 (By ICP/MS)
Drinking water	Antimony, Arsenic, Barium, Cadmium, Chromium, Copper, Lead, Mercury, Nickel and Selenium	In house method CTS-FD-102-3 (By ICP/MS)
	Veterinary drug residues :-	
Meat and Aquatic Products	- Malachite green and Leucomalachite green	In house methods CTS-FD-205-2 (by HPLC/MS/MS)
	- Sum of Malachite green and Leucomalachite green	In house methods CTS-FD-205-2 (by HPLC/MS/MS)
Honey, Meat and Aquatic Products	- Chloramphenicol	In house methods CTS-FD-223-1 (by HPLC/MS/MS)

SGS Hong Kong Limited
香港通用檢測認證有限公司

1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Microbiological tests :-	
General foodstuff	- Aerobic Plate Count	US FDA Bacteriological Analytical Manual Online (BAM online), Ch. 3, Jan. 2001 (Conventional Plate Count Method) AOAC Official Methods 990.12 (2005) (By 3M Petrifilm Method)
	- *Coliform* count	US FDA Bacteriological Analytical Manual Online (BAM Online) Ch 4, October 2020 (By MPN Method) AOAC Official Methods 991.14 (2005) (By 3M Petrifilm Method)
	-*E. coli* count	AOAC Official Methods 991.14 (2005) (By 3M Petrifilm Method)
	-*Enterobacteriaceae* count	AOAC Official Methods 2003.01 (2005) (By 3M Petrifilm Method)
	- Detection of Detection of *Listeria Monocytogenes*	US FDA Bacteriological Analytical Manual Online (BAM Online), Chapter 10, April 2022.
	- Enumeration of *Listeria monocytogenes*	US FDA Bacteriological Analytical Manual Online (BAM Online), Chapter 10, April 2022.
食品 Food	菌落總數測定 Aerobic plate count	GB 4789.2-2010
	大腸菌群計數 Enumeration of *coliforms*	GB 4789.3-2010 第一法 大腸菌群 MPN 計數法
	沙門氏菌檢驗 *Salmonella*	GB 4789.4-2010
	金黃色葡萄球菌檢驗 *Staphylococcus aureus*	GB 4789.10-2010 第二法 金黃色葡萄球菌 Baird-Parker 平板計數法
	大腸埃希氏菌計數 *E. coli*	GB 4789.38-2012 第一法 大腸埃希氏菌 MPN 計數法

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Microbiological tests :- (cont'd)	
Meat & Meals	- *Salmonella*	US FDA Bacteriological Analytical Manual Online (BAM online), Ch. 5, September 2023
	- *Staphylococcus aureus* count	US FDA Bacteriological Analytical Manual Online (BAM online, Ch. 12, March 2016 (Direct Plate Count Method)
Selected Meat, Seafood and Poultry	- *Staphylococcus aureus* count	AOAC Official Methods 2003.11 (2005) (By 3M Petrifilm Method)
Selected Dairy Foods	- *Staphylococcus aureus* count	AOAC Official Methods 2003.08 (2005) (By 3M Petrifilm Method)
Selected Types of Processed and Prepared Foods	- *Staphylococcus aureus* count	AOAC Official Methods 2003.07 (2005) (By 3M Petrifilm Method)
Dairy Products	- Aerobic Plate Count	AOAC Official Methods 986.33 (2005) (By 3M Petrifilm Method) AOAC Official Methods 989.10 (2005) (By 3M Petrifilm Method)
	- *Coliform* count	US FDA Bacteriological Analytical Manual Online (BAM Online) Ch 4, October 2020 (By MPN Method) AOAC Official Methods 986.33 (2005) (By 3M Petrifilm Method) AOAC Official Methods 989.10 (2005) (By 3M Petrifilm Method)
Water	- Total *Coliform* counts	DoE/DH/PHLS The Microbiology of Water (1994) Part 1 Drinking Water Section 7.5 & 7.7 (Membrane Filtration Method)
	- *E. coli* count	DoE/DH/PHLS The Microbiology of Water (1994) Part 1 Drinking Water Section 7.7 (Membrane Filtration Method followed by full identification with biochemical tests)

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Miscellaneous 雜類		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Microbiological tests :-	
一次性使用衛生用品 Disposable Sanitary Products	微生物衛生 (Microbiological Hygiene) 細菌菌落總數 (Total Plate Count) 大腸菌群 (*Coliform*) 金黃色葡萄球菌 (*Staphylococcus aureus*) 綠膿桿菌 (*Pseudomonas aeruginosa*) 溶血性鏈球菌 (*Hemolytic streptococci*) 真菌菌落總數 (Fungal Count)	GB 15979: 2002 **< *Excluding the following*>** App. C; testing of products with anti-bacterial properties and testing of "電話膜".
Cosmetics	Microbiological quality:-	Personal Care Products Council (PCPC) Technical Guidelines-Microbiology Guidelines (2022) Section 12, Establishing Microbial Quality of Personal Care Products Guidelines on Microbiological Quality of the Finished Cosmetic Product, the SCCS notes of guidance for the testing of cosmetic ingredients evaluation, 9th Rev., 2015
	- Test for specified microorganisms - *Staphylococcus aureus* - *Pseudomonas aeruginosa* - *Escherichia coli* - *Clostridia* - *Candida albicans* - *Salmonella* - Bile-Tolerant Gram-Negative Bacteria	*Test procedures for compliance testing:-* British Pharmacopoeia Volume V (2023) App. XVI B, B1 European Pharmacopoeia 11.0 edition (2023) Ch. 2.6.13 Japanese Pharmacopoeia Volume XVIII (2021), Ch. 4.05 United States Pharmacopeia – National Formulary (USP–NF) 2023 (20 Dec 2023), General Chapter <62>
	- Microbial enumeration test - Total Aerobic Microbial Count - Total Combined Yeasts and Molds Count	*Test procedures for compliance testing:-* British Pharmacopoeia Volume V (2023) App. XVI B, B2 European Pharmacopoeia 11.0 edition (2023) Ch. 2.6.12 Japanese Pharmacopoeia Volume XVIII (2021), Ch. 4.05 United States Pharmacopeia – National Formulary (USP–NF) 2023 (20 Dec 2023), General Chapter <61>

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Miscellaneous 雜類		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Microbiological tests (cont'd) :-	
Cosmetics and Personal Care Products	Antimicrobial Effectiveness Testing: - - Test for specified microorganisms - *Escherichia coli* - *Pseudomonas aeruginosa* - *Staphylococcus aureus* - *Candida albicans* - *Aspergillus brasiliensis*	United States Pharmacopeia – National Formulary (USP–NF) 2023 (20 Dec 2023), General Chapter <51>
Cosmetics and Personal Care Products	Efficacy of Antimicrobial Preservation: - - Test for specified microorganisms - *Escherichia coli* - *Pseudomonas aeruginosa* - *Staphylococcus aureus* - *Candida albicans* - *Aspergillus brasiliensis*	British Pharmacopoeia Volume V (2023) App. XVI C European Pharmacopoeia 11.0 edition (2023) Ch. 5.1.3

SGS Hong Kong Limited
香港通用檢測認證有限公司

1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Miscellaneous 雜類		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Petroleum products :-	
Liquefied Petroleum Gas (LPG)	- Copper strip corrosion	ASTM D1838-21 (excluding sampling)
	- Residues	ASTM D2158-21
	- Determination of hydrocarbons in Liquefied Petroleum (LP) Gases and Propane/Propene mixtures by gas chromatography	ASTM D2163-23e1 (excluding sampling)
	- Hydrogen sulphide	ASTM D2420-23 (excluding sampling)
	- Sulfur by oxidative microcoulometry	ASTM D3246-15 (excluding sampling and with modification)
	- Physical properties (S.G.@ 60/60F, vapour pressure @ 37.8°C, density @ 15°C, Motor Octane Number)	ASTM D2598-21 (S.G.@ 60/60F, vapour pressure @ 37.8°C and Motor Octane Number are by calculation)
	- Oily residues	IP 427/97 (2004) (excluding sampling)
	- Water	In-house method SOP-M-Free Water
Natural Gas (NG)	Analysis for Natural Gas and Similar Gaseous Mixtures by Gas Chromatography: - nitrogen - methane - CO_2 - ethane - propane - iso-butane - n-butane - iso-pentane - n-pentane - hexanes plus	GPA Standard 2261-20
Diesel fuel	Total sulphur	ASTM D2622-24
	Total sulphur	ISO20884:2019/Amd.1:2021
	FAME content	EN14078:2014

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Pharmaceutical Products 藥物		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
- Acetaminophen tablets	Physical and Chemical tests :- a. Assay b. Uniformity of dosage units (uncoated and film-coated tablets) c. Identification (Method A)	United States Pharmacopoeia – National Formulary (USP-NF) 2023 (09-Jan-2024) United States Pharmacopoeia – National Formulary (USP-NF) 2023 (09-Jan-2024) United States Pharmacopoeia – National Formulary (USP-NF) 2023 (09-Jan-2024)

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Pharmaceutical Products 藥物		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Microbiological tests :-	
Non-sterile pharmaceutical preparations and substances for pharmaceutical use	Microbiological quality	United States Pharmacopeia – National Formulary (USP–NF) 2023 (20 Dec 2023), General Chapter <1111>
	- Microbial enumeration test - Total Aerobic Microbial Count - Total Combined Yeasts and Molds Count	*Test procedures for compliance testing:-* United States Pharmacopeia – National Formulary (USP–NF) 2023 (20 Dec 2023), General Chapter <61>
	- Test for specified microorganisms - *Staphylococcus aureus* - *Pseudomonas aeruginosa* - *Escherichia coli* - *Salmonella* - Bile-Tolerant Gram-Negative Bacteria - *Clostridia* - *Candida albicans*	*Test procedures for compliance testing:-* United States Pharmacopeia – National Formulary (USP–NF) 2023 (20 Dec 2023), General Chapter <62>
Non-sterile pharmaceutical preparations and substances for pharmaceutical use ***<Excluding the following>*** orodispersible film products	Microbiological quality	European Pharmacopoeia 11.0 edition (2023) Ch. 5.1.4 (Microbiological Quality of Non-sterile Pharmaceutical Preparations and Substances for Pharmaceutical Use) British Pharmacopeia (2023) App.XVI D (Microbiological Quality of Non-sterile Pharmaceutical Preparations and Substances for Pharmaceutical Use)
	- Test for specified microorganisms - *Staphylococcus aureus* - *Escherichia coli* - *Pseudomonas aeruginosa* - *Clostridia* - *Candida albicans* - Bile-Tolerant Gram-Negative Bacteria - *Salmonella*	*Test procedures for compliance testing:-* European Pharmacopoeia 11.0 edition (2023) Ch. 2.6.13 British Pharmacopoeia Volume V (2023) App. XVI B1
	- Microbial enumeration test - Total Aerobic Microbial Count - Total Combined Yeasts and Molds Count	*Test procedures for compliance testing:-* European Pharmacopoeia 11.0 edition (2023) Ch. 2.6.12 British Pharmacopoeia Volume V (2023) App. XVI B2

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Pharmaceutical Products 藥物		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Microbiological tests (cont'd) :-	
Non-sterile pharmaceutical preparations and substances for pharmaceutical use	Microbiological quality	The Japanese Pharmacopoeia, JP XVIII (2021) G4 Microorganisms, <G4-1-170> 'Microbial Attributes of Non-sterile Pharmaceutical Products'
	- Microbial enumeration tests - Total Aerobic Microbial Count - Total Combined Yeasts and Molds Count	*Test procedures for compliance testing:-* Japanese Pharmacopeia Volume XVIII (2021), Ch. 4.05
	- Test for specified microorganisms - *Staphylococcus aureus* - *Escherichia coli* - *Pseudomonas aeruginosa* - *Clostridia* - *Candida albicans* - Bile-Tolerant Gram-Negative Bacteria - *Salmonella*	*Test procedures for compliance testing:-* Japanese Pharmacopeia Volume XVIII (2021), Ch. 4.05
Substances, preparations and articles which, according to pharmacopoeia, are required to be sterile	Sterility Tests	United States Pharmacopeia – National Formulary (USP–NF) 2023 (20 Dec 2023), General Chapter <71>
	Test for Sterility	European Pharmacopoeia 11.0 edition (2023), Method 2.6.1 British Pharmacopoeia Volume V (2023), App. XVI A
Liquid medicine, solid medicine, oils and oily solutions, and ointments and creams	Sterility Test	Japan Pharmacopoeia, Vol. XVIII (2021), Ch. 4.06

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Physical and Mechanical Testing 物理及機械測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Furniture		
- Domestic seating	- Stability tests	BS EN 1022: 2005 **< *Excluding the following* >** Cl. 8
- Outdoor seating for domestic use	- Safety tests	BS EN 581-1: 2006 BS EN 581-2: 2015 + AC: 2016 **< *Excluding the following* >** Cl. 6, 8.2 and Annex A BS EN 581-1: 2017 BS EN 581-2: 2015 + AC: 2016 **< *Excluding the following* >** Cl. 6, 8.2 and Annex A
- Outdoor tables for domestic use	- Safety tests	BS EN 581-1: 2006 BS EN 581-3: 2017 BS EN 581-1: 2017 BS EN 581-3: 2017
Polymer and polymer products		
- Hot water bottles manufactured from rubber and PVC	- Safety tests	BS 1970: 2012 Cl. 4, 5, 6, 7, 8 & 9

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Physical and Mechanical Testing 物理及機械測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Spectacles		
- Lens in non-prescription sunglasses and fashion eyewear	- Impact-resistance test	ANSI Z80.3-2018, clause 4.2
- Non-prescription sunglasses	- Optical requirements	BS EN ISO 12312-1: 2013 + A1: 2015 EN ISO 12312-1: 2013 + A1: 2015 ISO 12312-1: 2013 + A1: 2015 Cl. 5, 6, 8 and 13 ***<Excluding the following>*** for the above three standards Cl. 5.3.2.2 (test for photochromic filter), 5.3.4.1, 5.3.4.2, 5.3.5.3, 5.3.5.4, 6.2 and 8(b)
	- Optical test methods	BS EN ISO 12311: 2013 EN ISO 12311: 2013 ISO 12311: 2013 Cl. 7 and 8 ***<Excluding the following>*** for the above three standards Cl. 7.5, 7.6, 7.7, 7.10, 7.11 and 8.3
	- Physical requirements	BS EN ISO 12312-1: 2013 + A1: 2015 EN ISO 12312-1: 2013 + A1: 2015 ISO 12312-1: 2013 + A1: 2015 Cl. 4, 7, 9, 11, 12, 13 ***<Excluding the following>*** for the above three standards Cl. 4.3, 7.3, 7.4, 7.5 and 7.6
	- Physical test methods	BS EN ISO 12311: 2013 EN ISO 12311: 2013 ISO 12311: 2013 Cl. 6 and 9 ***<Excluding the following>*** for the above three standards Cl. 9.3, 9.4, 9.5, 9.7 and 9.10

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Physical and Mechanical Testing 物理及機械測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Spectacles		
- Spectacle frame	- Physical requirements and test methods	BS EN ISO 12870: 2009 EN ISO 12870: 2009 ISO 12870: 2004 ***<Excluding the following>*** for the above three standards Cl. 4.2 and 4.10 BS EN ISO 12870: 2018 EN ISO 12870: 2018 ISO 12870: 2016 ***<Excluding the following>*** for the above three standards Cl. 4.2.2, 4.2.3, 4.2.4 and 4.10
- Sunglasses & fashion spectacles		Australia Consumer Goods (Sunglasses and Fashion Spectacles) Safety Standard 2017 ***in conjunction with following two standards***
	- Optical requirements	AS/ NZS 1067.1: 2016 Cl. 5, 6, 13 and 14 ***<Excluding the following>*** Cl. 5.3.2.4 (test for photochromic filter), 5.3.4.1, 5.3.4.2, 5.3.5.2.8, 5.3.5.3, 5.3.5.4 and 6.2
	- Optical test methods	AS/ NZS 1067.2: 2016 Cl. 7 and 8 ***<Excluding the following>*** Cl. 7.5, 7.6, 7.7, 7.10, 7.11 and 8.3
	- Physical requirements	AS/ NZS 1067.1: 2016 Cl. 4. 7, 9, 11, 12, 13 and 14
	- Physical test methods	AS/ NZS 1067.2: 2016 Cl. 6 and 9

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Physical and Mechanical Testing 物理及機械測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Spectacles		
- Sunglasses & fashion spectacles (cont'd)	- Optical requirements	AS/ NZS 1067.1: 2016 Cl. 5, 6, 8, 13 and 14 ***<Excluding the following>*** Cl. 5.3.2.4 (test for photochromic filter), 5.3.4.1, 5.3.4.2, 5.3.5.2.8, 5.3.5.3, 5.3.5.4, 6.2 and 8(b)
	- Optical test methods	AS/ NZS 1067.2: 2016 Cl. 7 and 8 ***<Excluding the following>*** Cl. 7.5, 7.6, 7.7, 7.10, 7.11 and 8.3
	- Physical requirements	AS/ NZS 1067.1: 2016 Cl. 4, 7, 9, 11, 12, 13 and 14 ***<Excluding the following>*** Cl. 4.3, 7.4, 7.5 and 7.6
	- Physical test methods	AS/ NZS 1067.2: 2016 Cl. 6 and 9 ***<Excluding the following>*** Cl. 9.4, 9.5, 9.7 and 9.10

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Physical and Mechanical Testing 物理及機械測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Spectacles		
- Unmounted lens for non-prescription sunglasses	- Optical requirements	BS EN ISO 12312-1: 2013 + A1: 2015 EN ISO 12312-1: 2013 + A1: 2015 ISO 12312-1: 2013 + A1: 2015 Cl. 5, 8, 13 and Annex B ***<Excluding the following>*** for the above three standards Cl. 5.3.2.2 (test for photochromic filter), 5.3.4.1, 5.3.4.2, 5.3.5.3, 5.3.5.4, 8(b) and B.5
	- Optical test methods	BS EN ISO 12311: 2013 EN ISO 12311: 2013 ISO 12311: 2013 Cl. 7 and 8 ***<Excluding the following>*** for the above three standards Cl. 7.5, 7.6, 7.7, 7.10, 7.11 and 8.3
	- Physical requirements	BS EN ISO 12312-1: 2013 + A1: 2015 EN ISO 12312-1: 2013 + A1: 2015 ISO 12312-1: 2013 + A1: 2015 Cl. 4, 9, 13 and Annex B
	- Physical test methods	BS EN ISO 12311: 2013 EN ISO 12311: 2013 ISO 12311: 2013 Cl. 6 and 9 ***<Excluding the following>*** for the above three standards Cl. 9.3, 9.4, 9.5, 9.7 and 9.10
Other products		
- Fluid and gas lighter	Safety and performance tests	BS EN ISO 9994: 2019 EN ISO 9994: 2019 ISO 9994: 2018 ***<Excluding the following>*** for the above three standards Cl. 6.7.4.10, 6.10.4.3 and 6.10.4.4

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Textiles and Garments 紡織品及成衣

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
General textiles and garments 一般紡織品及成衣	Care performance tests :- - Dimensional stability to relaxation and felting	Woolmark TWC-TM31-2009
	- Dimensional stability to steaming	BS 4323: 1995 ISO 3005: 1978
	- Dimensional stability to washing	AATCC TM135-2018t AATCC TM150-2018t (for the above two standards including alternate laundering procedures and washing machine parameters as specifeied in the following standard.) AATCC LP1-2021 BS EN 25077: 1994 BS EN ISO 5077: 2008 EN ISO 5077: 2007 ISO 5077: 2007 BS EN ISO 3759: 2011 ISO 3759: 2011 (for the above two standards using the following standards for specimen treatment) BS EN ISO 6330: 2021 ISO 6330: 2021 ***<Excluding the following>*** for the above two standards cl. 5.1.3 BS EN ISO 6330: 2012 ISO 6330: 2012 ***<Excluding the following>*** for the above two standards cl. 5.1.3 BS EN 26330: 1994 ISO 3175-2: 2017 ***< Excluding the following>*** cl. 9.2.9 method C, D & E
	- Fiber fragment release during home laundering	AATCC TM212-2021
	- Wash and wear performance	AATCC TM124-2018t

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Textiles and Garments 紡織品及成衣

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
General textiles and garments 一般紡織品及成衣	Care performance tests :- (cont'd) - Determination of spirality after laundering (woven and knitted fabrics / garments)	BS ISO 16322-2: 2021 ISO 16322-2: 2021 BS ISO 16322-3: 2021 ISO 16322-3: 2021 AATCC TM179-2019
	- Appearance of durable press fabrics fabrics after domestic washing and drying 評定耐久壓熨織物經家庭洗滌和乾燥後外觀平整度	BS ISO 7768: 2009 ISO 7768: 2009 ***<Excluding the following>*** for the above two standards Annex B GB/T 13769-2009
	- Appearance of crease in durable press fabrics fabrics after domestic washing and drying 評定耐久壓熨織物經家庭洗滌和乾燥後褶襉外觀	BS ISO 7769: 2009 ISO 7769: 2009 ***<Excluding the following>*** for the above two standards Annex B AATCC TM88C-2018t GB/T 13770-2009
	- Appearance of seams in durable press fabrics fabrics after domestic washing and drying 洗滌後接縫外觀平整度	BS ISO 7770: 2009 ISO 7770: 2009 ***<Excluding the following>*** for the above two standards Annex A AATCC TM88B-2018t GB/T 13771-2009
	- Wrinkle recovery of fabrics(appearance method)	BS ISO 9867: 2022 ISO 9867: 2022 ***<Excluding the following>*** for above two standards Annex A AATCC TM128-2017e2

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Textiles and Garments 紡織品及成衣

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Care performance tests :- (cont'd)	
General textiles and garments 一般紡織品及成衣	- Assessing the appearance of apparel and other textile end products after domestic washing and drying 服裝及其他紡織最終產品經家庭洗滌和乾燥後外觀評估	ISO 15487: 2018 GB/T 19980-2005
	- Dimensional stability to washing and drying 洗滌和乾燥後尺寸變化測定	GB/T 8630-2013
	- Domestic washing and drying procedures for textile testing 紡織品家庭洗滌和乾燥程式	GB/T 8629-2017
	- Preparation, marking and measuring of fabric specimens and garments in tests for determination of dimensional change 測定尺寸變化的織物試樣和服裝的準備、標記及測量	GB/T 8628-2013
Garments used adhesive interling 使用粘合襯服裝	- Assessment of performance after dry cleaning 耐乾洗測試方法	FZ/T 80007.3-2006
Wool textiles 毛紡織品	- Relaxation and felting shrinkage 鬆弛及氈化收縮	FZ/T 70009-2021
Wool garments (knitted) 毛針織成衣	- Angle of spirality 扭斜角	FZ/T 20011-2006

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Textiles and Garments 紡織品及成衣

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical analysis :-	
General textiles and garments 一般紡織品及成衣	- Free formaldehyde content 遊離甲醛含量	BS EN ISO 14184-1: 2011 ISO 14184-1: 2011 GB/T 2912-1-2009 GB/T 2912-1-1998 JIS L1041-2011 (based on English version published in 2013-12) section 8.1
	- Release formaldehyde content 釋放甲醛含量	AATCC TM112-2020 BS EN ISO 14184-2: 2011 ISO 14184-2: 2011 GB/T 2912-2: 2009
Other Materials :- - Leather	- Formaldehyde content	ISO 17226-1: 2021 BS EN ISO 17226-1: 2021 ISO 17226-2: 2018 BS EN ISO 17226-2: 2019
- Leather and fur 皮革和毛皮	- Formaldehyde content 甲醛含量	GB 20400-2006 GB/T 19941.1-2019 GB/T 19941.2-2019
General textiles and garments 一般紡織品及成衣	- pH value pH 值	AATCC TM81-2022 BS EN ISO 3071: 2020 EN ISO 3071: 2020 ISO 3071: 2020 GB/T 7573-2009 GB/T 7573-2002
Other Materials :- - Leather	- pH value	ISO 4045: 2018

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Textiles and Garments 紡織品及成衣

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical analysis :- (cont'd)	
Other Materials :-		
- PVC artificial leather 聚氯乙烯人造革	- Residual vinyl chloride monomer 氯乙烯單體	GB 21550-2008(modified) *Test procedure for compliance testing:* GB/T 4615-2008 (modified method A using GCMS)
	- Extractable heavy metals and 可溶性重金屬	GB 21550-2008
	- Other volatile substances 其他揮發物	GB 21550-2008
Wool 毛紡織	- Dichloromethane (DCM) soluble matter 二氯甲烷可溶性物質	FZ/T 20018-2010

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Textiles and Garments 紡織品及成衣

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
General textiles and garments 一般紡織品及成衣	Colour fastness tests :-	
	- Acid spot 耐酸斑色牢度	BS EN ISO 105-E05: 2010 EN ISO 105-E05: 2010 ISO 105-E05: 2010 GB/T 5715-2013
	- Alkali spot 耐鹼斑色牢度	BS EN ISO 105-E06: 2006 EN ISO 105-E06: 2006 ISO 105-E06: 2006 GB/T 5716-2013
	- Bleaching 耐漂白色牢度	BS EN 20105-N01: 1995 ISO 105-N01: 1993 GB/T 7069-1997
	- Burnt gas fumes	AATCC TM23-2015e (2020) ISO 105-G02: 1993 + Corr. 2 2009
	- Chlorinated Water 耐氯化水色牢度	AS/NZS 2001.4.5-1998 BS EN ISO 105-E03: 2010 DIN EN ISO 105-E03: 2010 ISO 105-E03: 2010 GB/T 8433-2013
	- Dry cleaning 耐乾洗色牢度	AATCC TM132-2004e3(2013)e3 BS EN ISO 105-D01: 2010 DIN EN ISO 105-D01: 2010 ISO 105-D0l: 2010 GB/T 5711-2015 CAN/CGSB 4.2 No. 29.1-M89 (R1997) JIS L0860-2008 (based on English version published in 2009-06) GB/T 5711-1997
	- Dye transfer in storge	AATCC TM163-2013 (2020)e
	- Hot pressing 耐熱壓色牢度	AATCC TM133-2020 BS EN ISO 105-X11: 1996 DIN EN ISO 105-X11: 1996 ISO 105-X11-1994 GB/T 6152-1997

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Textiles and Garments 紡織品及成衣

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Colour fastness tests :- (cont'd)	
General textiles and garments 一般紡織品及成衣	- Light 耐人造光色牢度	AATCC TM16.3-2020 option 3 BS EN ISO 105-B02: 2014 method 2 ISO 105 B02-2014 method 2 GB/T 8427-2019 Method 3 Woolmark TWC-TM 5-2008
	- Light and perspiration 耐人造光、汗復合色牢度	GB/T 14576-2009
	- Perspiration 耐汗漬色牢度	AATCC TM15-2021e BS EN ISO 105-E04: 2013 DIN EN ISO 105-E04: 2013 ISO 105-E04: 2013 GB/T 3922-2013 JIS L0848-2004 (based on English version published in 2004-10) Woolmark TWC-TM 174-2009
	- Phenolic yellowing	BS EN ISO 105-X18: 2007 ISO 105-X18: 2007
	- Rubbing/crocking 耐摩擦色牢度	AATCC TM8-2016e(2022)e AS 2001.4.3-1995 DIN EN ISO 105-X12: 2016-02 BS EN ISO 105-X12: 2016 ISO 105-X12: 2016 GB/T 3920-2008 DIN 54021: 1984 CAN/CGSB 4.2 No. 22-2004 (R2013) JIS L0849-2013 (based on English version published in 2013-08)
Specific Products :- - Footwear 鞋類 - uppers, linings and insocks 幫面、襯裡和內墊	- Rubbing 摩擦色牢度	QB/T 2882-2007
General textiles and garments 一般紡織品及成衣	- Saliva 耐唾液色牢度	GB/T 18886-2019

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Textiles and Garments 紡織品及成衣

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
General textiles and garments 一般紡織品及成衣	Colour fastness tests :- (cont'd) - Sea water 耐海水色牢度	AATCC TM106-2009e(2013)e3 BS EN ISO 105-E02: 2013 DIN EN ISO 105-E02: 2013 ISO 105-E02: 2013 GB/T 5714-2019 CAN/CGSB 4.2 No. 21-M90 (R2013)
	- Washing 耐洗色牢度	AATCC TM61-2013e (2020) AS 2001.4.15-2006 ***< Excluding the following >*** Tests H, P, Q BS EN ISO 105-C06: 2010 test A, B, C, D, E ISO 105-C06: 2010 test A, B, C, D, E GB/T 12490-2014 BS EN ISO 105-C08: 2010 ISO 105-C08: 2010 BS EN ISO 105-C09: 2003 ISO 105-C09: 2001 + Amd. 1 2003 ISO 105-C10: 2006 GB/T 3921-2008 JIS L0844-2011 (based on English version published in 2013-01) method A1, A2, A3 Woolmark TWC-TM 193-2009
	- Water 耐水色牢度	AATCC TM107-2022 BS EN ISO 105-E01: 2013 DIN EN ISO 105-E01: 2013 ISO 105-E01: 2013 GB/T 5713-2013 CAN/CGSB 4.2 No. 20-M89 (R2013) JIS L0846-2004 (based on English version published in 2004-10) Woolmark TWC-TM 6-2009
	- Water spot 耐水斑色牢度	EN ISO 105-E07: 2010 ISO 105-E07: 2010 GB/T 5717-2013

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Textiles and Garments 紡織品及成衣

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
General textiles and garments	Colour measurement tests :- - Colour Difference	AATCC TM173-2009(2015)e2 ISO 105-J03: 2009
	- Instrumental assessment of the degree of staining of adjacent fabric	BS EN ISO 105-A04: 1999 EN ISO 105-A04: 1999 ISO 105-A04: 1989
	- Instrumental assessment of change of colour for determination of grey scale rating	BS EN ISO 105-A05: 1997 ISO 105-A05: 1996 / Cor 2: 2005
	- Instrumental determination of 1/1 standard depth of colour	BS EN ISO 105-A06: 1997 ISO 105-A06: 1995
	- Whiteness of textile	AATCC TM110-2015e2 BS EN ISO 105-J02: 2000
General textiles and garments 一般紡織品及成衣	Construction tests :- - Fabric weight 布重	ASTM D3776 - 20 option C BS EN 12127: 1998 ISO 3801: 1977 method 5 GB/T 4669-2008 method 5 JIS L1096-2010 (based on English version published in 2012-10) section 8.3 Woolmark TWC-TM13-2009
	- Fabric width	ASTM D3774 - 18 option B
	- Threads per unit length 織物密度	ASTM D3775 - 17(2023) BS EN 1049-2: 1994 ISO 7211/2: 1984 method A, B AS 2001.2.5-1991 test C CAN/CGSB 4.2 No. 6-M89 GB/T 4668-1995 method A
	- Weft knit, stitch density	AS 2001.2.6-2001 test C ASTM D3887 - 96(2008) section 12 BS 5441: 1988 +A1: 2019 section 2, Cl. 9 CAN/CGSB 4.2 No. 7-M88

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Textiles and Garments 紡織品及成衣

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
General textiles and garments 一般紡織品及成衣	Construction tests :- (cont'd) - Yarn linear density	
	a) woven and knit fabrics	ASTM D1059 - 17(2022) ISO 7211/5: 2020 Cl. 8.2
	b) yarn in skein form	ASTM D1907 / D1907M - 12(2018) option 1 BS EN ISO 2060: 1995 ptioon 1 ISO 2060: 1994 option 1
	- Skewness and bow 緯斜和弓緯	GB/T 14801-2009
Knitted fabrics 針織物	- Stretch and recovery 拉伸彈性回覆率	FZ/T 70006-2004
Wool fabrics (knitted) 毛針織物	- Cover factor 編織密度系數	FZ/T 70008-2012
Specific products:- - Children's upper outwear	- Measurement of drawstrings	ASTM F1816 - 18
- Children's clothing	- Measurement of cords and drawstrings	BS EN 14682: 2014 JIS L4129-2015 (based on English verion published in 2016-05)
- Children's upper outwear	- Standard safety size for drawstrings on children's upper wear 兒童上衣拉帶安全規格	GB/T 22702-2019
- Children's clothing	- Safety specifications for cords and drawstrings on children's clothing 童裝繩索和拉帶安全要求	GB/T 22705-2019
- Attached components on textile products 紡織製品附件	- Test method for sharpness 銳利性試驗方法	GB/T 31702-2015

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Textiles and Garments 紡織品及成衣

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
General textiles and garments 一般紡織品及成衣	Fabric performance tests :- - Abrasion resistance 耐磨試驗 a) Accelerator tester	AATCC TM93-2019 method A
	b) Flex abrasion tester	ASTM D3885 - 07a(2019)
	c) Martindale tester 馬丁代爾法	ASTM D4966 - 22 BS 5690: 1991 BS EN 530: 2010 BS EN ISO 12947-2: 2016 ISO 12947-2: 2016 BS EN ISO 12947-3: 1998 ISO 12947-3: 1998 BS EN ISO 12947-4: 1998 + Cor.1: 2002 ISO 12947-4: 1998 + Cor.1: 2002 Woolmark TM TWC-112-2009 JIS L1096-2010 (based on English version published in 2012-10) section 8.19.5 method E GB/T 21196.2-2007 ***< Excluding the following 不包括 >*** Cl. 7.5.1 and App. A.1 第 7.5.1 節及附錄 A.1
	d) Stoll flat abrasion tester	ASTM D3886 - 22
	- Absorbency of textile	AATCC TM79-2010e2(2018)e3
	- Air permeability 透氣性	BS EN ISO 9237: 1995 EN ISO 9237: 1995 ISO 9237: 1995 ASTM D737 - 18 DIN 53887: 1986 BS 3424: Part 16: 1995 JIS L1096-2010 (based on Engloish version published in 2012-10) section 8.26 method A GB/T 5453-1997
Knitted footwear garments	- Abrasion resistance (martindale abrasion machine method)	BS EN 13770: 2002 Method 1 EN 13770: 2002 Method 1
General textiles and garments 一般紡織品及成衣	- Bursting strength (ball burst test)	ASTM D6797 - 15 ***< Excluding the following >*** section 7.1 and 7.2

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Textiles and Garments 紡織品及成衣

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
General textiles and garments 一般紡織品及成衣	Fabric performance tests :- (cont'd) - Moisture regain 回潮率	GB/T 9995-1997 < ***Excluding the following 不包括*** > Cl. 8.4.1 第 8.4.1 節
	- Odour 異味	GB 18401-2010 cl. 6.7
	- Oil repellency	AATCC TM118-2020e ISO 14419: 2010 GB/T 19977-2014
	- Pilling resistance 起球試驗 a) Assessment of pilling by visual analysys	BS EN ISO 12945-4: 2020 EN ISO 12945-4: 2020 ISO 12945-4: 2020 (Note: The above Part 4 standards should be used in conjunction with other parts of ISO 12945 covered in the scope of accreditation)
	b) Circular locus method 圓軌跡法	GB/T 4802.1-2008
	c) ICI Pilling Box 起球箱法	BS EN ISO 12945-1: 2020 ISO 12945-1: 2020 GB/T 4802.3-2008 JIS L1076-2012 (based on Englsih verion published in 2014-11) section 6 method A Woolmark TWC-TM 152-2009
	d) Martindale	ASTM D4970 / D4970M - 22 BS EN ISO 12945-2: 2020 ISO 12945-2: 2020 Woolmark TWC-TM 196-2009
	e) Modified Martindale method 馬丁代爾法	GB/T 4802.2-2008
	f) Random Tumbling	ASTM D3512 / D3512M - 22 JIS L1076-2012 (based on English version published in 2014-11) method D-3 CAN/CGSB 4.2 No. 51.2-M87

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Textiles and Garments 紡織品及成衣

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Fabric performance tests :- (cont'd)	
General textiles and garments 一般紡織品及成衣	- Snagging Resistance (Mace Test Method)	ASTM D3939 / D3939M - 13(2017) JIS L1058: 2011 (based on English version published in 2012-06) method A PD 6527: 1990 section 19
	- Soil release	AATCC TM130-2018t
	- Wicking (horizontal)	AATCC TM198-2011e3(2020)e
	- Wicking (vertical)	AATCC TM197-2022 AATCC TM213-2022 JIS L1907: 2010 (based on English version published in 2011-10) section 7.1.2
	- Solar UV Protective Properties	AATCC TM183-2020e AS/NZS 4399: 2017 AS 4399: 2020 BS EN 13758-1: 2002 + A1: 2006 BS EN 13758-2: 2003 + A1: 2006
	- Weathering resistance to UV and moisture	AATCC TM186-2022
	- Evaluation of absorption and quick-drying (combination tests) 吸濕速干性 (單項組合試驗法)	GB/T 21655.1-2023 < ***Excluding the following 不包括*** > Cl. 7.1 第 7.1 節
	- Evaluation of absorption and quick-drying (moisture management test) 吸濕速干性 (動態水份傳遞試驗)	GB/T 21655.2-2019
	- Liquid moisture management	AATCC TM195-2011e2(2017)e4
	- Drying time (moisture analyser method)	AATCC TM199-2013e(2018)e2
	- Drying rate at absorbent capacity (air flow method)	AATCC TM200-2017e2
	-Drying rate (Heated plate method)	AATCC TM201-2012(2014)e3

SGS Hong Kong Limited
香港通用檢測認證有限公司

1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Textiles and Garments 紡織品及成衣

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Fabric performance tests :- (cont'd)	
General textiles and garments 一般紡織品及成衣	- Thermal resistance	ASTM D1518 - 14 option 1
	- Contact cool feeling coefficient	GB/T 35263-2017
	- Thermal and evaporative resistance	ASTM F1868 - 23
	- Thermal and water vapour resistance 熱阻和濕阻的測定	BS EN ISO 11092: 2014 ISO 11092: 2014 GB/T 11048-2018
	- Water absorption time and capacity	ISO 20158: 2018
	- Water vapour transmission	AATCC TM204-2019e
	- Aqueous Liquid Repellency	AATCC TM193-2007e4(2017)e2 ISO 23232: 2009
	- Water repellency (artificial shower)	BS 5066: 1974 (1993)
	- Water repellency (spray rating) 表面抗濕性測定《沾水試驗》	AATCC TM22-2017e option 2 BS EN 4920: 2012 ISO 4920: 2012 JIS L1092-2009 (based on English verion published in 2009-08) section 7.2 CAN/CGSB 4.2 No. 26.2-M94 GB/T 4745-2012
	- Water resistance (hydrostatic pressure) 抗滲水性《靜水壓法》	AATCC TM127-2017(2018)e option 2 ISO 811: 2018 GB/T 4744-2013 ASTM D751 - 19 section 41, 42, 43, 44 and 45 (Procedure A)
	- Water resistance (impact penetration test)	AATCC TM42-2017e
	- Water resistance (rain test)	AATCC TM35-2018e ISO 22958: 2021
	- Water Vapour Permeability	BS 7209: 1990 App. B ISO 15496: 2018 JIS L1099: 2012 (based on English version published in 2013-04)

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Textiles and Garments 紡織品及成衣

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Feather and down 羽毛和羽絨	Feather and down analysis :-	
	- Composition analysis	ASTM D4524 - 20 BS EN 12131: 2018 EN 12131: 2018
	- Composition labeling	BS EN 12934: 2000 + Corr No. 1 EN 12934: 1999
	- Filling power	BS EN 12130: 2018 EN 12130: 2018
	- Net weight of filling	BS EN 13088: 2018 EN 13088: 2018
	- Oil content	BS EN 1163: 1997 EN 1163: 1996
	- Oxygen number	BS EN 1162: 1997 EN 1162: 1996
	- Turbidity	BS EN 1164: 1999 EN 1164: 1998
	- Testing methods for feather and down 羽絨羽毛檢驗方法	GB/T 10288-2016 < ***Excluding the following 不包括*** > Cl. 5.9 第 5.9
		GB/T 17685-2016 < ***Excluding the following 不包括*** > Cl. 7 第 7 章
	- Testing methods for washed feather and down 水洗羽絨羽毛檢驗方法	FZ/T 80001-2002 < ***Excluding the following 不包括*** > Cl. 6, 7 and 11 第 6, 7 及 11 章

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Textiles and Garments 紡織品及成衣

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
General textiles and garments 一般紡織品及成衣	Fibre analysis :- - Fibre content (qualitative method) 纖維含量《定性方法》	AATCC TM20-2021 ***<Excluding the following>*** R.I, density, drying twist test, stain test FZ/T 01057.1-2007 FZ/T 01057.2-2007 FZ/T 01057.3-2007 FZ/T 01057.4-2007 FZ/T 01057.5-2007 FZ/T 01057.6-2007 FZ/T 01057.8-1999 ASTM D276 - 12 ***<Excluding the following>*** section 24, 25, 26, 27, 34 and 35 ISO/TR 11827: 2012 ***<Excluding the following>*** Cl. 7.1.3, 7.2.3, 7.5, 7.6.3, 7.7 and 7.8
	- Fibre content (quantitative method - mechanical separation and chemical analysis) 纖維含量《機械分離及化學分析》	AATCC TM20A-2021 ASTM D629 - 15 ***<Excluding the following>*** method No. 7, annex A1 BS 4407: 1988 ***<Excluding the following>*** methods 13, 17 and 18 in Cl. 4 CAN/CGSB 4.2 No. 14-2005 ***< Excluding the following >*** Cl. 9 and 15 WOOLMARK TWC-TM155-2009 European Council Directive 73/44/EEC European Council Directive 96/73/EC as amended by European Council Directive 2006/2/EC and European Council Directive 2007/4/EC ***<Excluding the following>*** method 12 and 15 Regulation (EU) No 1007/2011 of European Parliament and of the council of 27 September 2011 Annex VIII <***Excluding the following***> method 12 and 15, annex IX and X

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Textiles and Garments 紡織品及成衣		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Fibre analysis :- (cont'd)	
General textiles and garments 一般紡織品及成衣	- Fibre content (quantitative method - mechanical separation and chemical analysis)	BS EN ISO 1833-1: 2020 EN ISO 1833-1: 2020 ISO 1833-1: 2020 (Note: The above Part 1 standard should be used in conjunction with other parts of ISO 1833 for particular fibre mixtures) BS EN ISO 1833-2: 2020 EN ISO 1833-2: 2020 ISO 1833-2: 2020 BS EN ISO 1833-3: 2019 EN ISO 1833-3: 2019 ISO 1833-3: 2019 BS EN ISO 1833-4: 2023 EN ISO 1833-4: 2023 ISO 1833-4: 2023 BS EN ISO 1833-5: 2010 EN ISO 1833-5: 2010 ISO 1833-5: 2006 BS EN ISO 1833-6: 2019 EN 1833-6: 2019 ISO 1833-6: 2018 BS EN ISO 1833-7: 2017 EN ISO 1833-7: 2017 ISO 1833-7: 2017 BS EN ISO 1833-8: 2010 EN ISO 1833-8: 2010 ISO 1833-8: 2006 BS EN ISO 1833-9: 2019 EN ISO 1833-9: 2019 ISO 1833-9: 2019 BS EN ISO 1833-10: 2010 EN ISO 1833-10: 2010 ISO 1833-10: 2019 BS EN ISO 1833-11: 2017 EN ISO 1833-11: 2017 ISO 1833-11: 2017 BS EN ISO 1833-12: 2020 EN ISO 1833-12: 2020 ISO 1833-12: 2020

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Textiles and Garments 紡織品及成衣		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Fibre analysis :- (cont'd)	
General textiles and garments 一般紡織品及成衣	- Fibre content (quantitative method - mechanical separation and chemical analysis) (cont'd)	BS EN ISO 1833-13: 2019 EN ISO 1833-13: 2019 ISO 1833-13: 2019 BS EN ISO 1833-14: 2019 EN ISO 1833-14: 2019 ISO 1833-14: 2019 BS EN ISO 1833-16: 2019 EN ISO 1833-16: 2019 ISO 1833-16: 2019 BS EN ISO 1833-17: 2020 EN ISO 1833-17: 2020 ISO 1833-17: 2019 BS EN ISO 1833-18: 2020 EN ISO 1833-18: 2020 ISO 1833-18: 2020 BS EN ISO 1833-19: 2010 ISO 1833-19: 2006 BS EN ISO 1833-20: 2019 ISO 1833-20: 2018 BS EN ISO 1833-22: 2021 EN ISO 1833-22: 2021 ISO 1833-22: 2020

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Textiles and Garments 紡織品及成衣

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
General textiles and garments 一般紡織品及成衣	Fibre analysis :- (cont'd) - Fibre content (quantitative method - mechanical separation and chemical analysis) 纖維含量《機械分離及化學分析》	GB/T 2910.1-2009 (Note: The above Part 1 standard should be used in conjunction with other parts of GB/T 2910 for particular fibre mixtures) GB/T 2910.2-2009 GB/T 2910.3-2009 GB/T 2910.4-2009 GB/T 2910.5-2009 GB/T 2910.6-2009 GB/T 2910.7-2009 GB/T 2910.8-2009 GB/T 2910.9-2009 GB/T 2910.10-2009 GB/T 2910.11-2009 GB/T 2910.12-2009 GB/T 2910.13-2009 GB/T 2910.14-2009 GB/T 2910.16-2009 GB/T 2910.17-2009 GB/T 2910.18-2009 GB/T 2910.20-2009 GB/T 2910.21-2009 GB/T 2910.22-2009 GB/T 2910.23-2009 GB/T 2910.24-2009 GB/T 2910.101-2009
	- Fibre content (quantitative method – physical analysis) 纖維含量《物理法》	FZ/T 01101-2008
	- Identification of fibre content 纖維含量標識	FZ/T 01053-2007 GB/T 29862-2013
Animal fibres, yarn and fabric 動物纖維與羊毛	- Fibre diameter 纖維直徑	ASTM D2130 - 22a WOOLMARK TWC-TM24-2009 GB/T 10685-2007

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Textiles and Garments 紡織品及成衣

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Fibre analysis :- (cont'd)	
Cashmere, wool, specialty fibres and their blends 特種動物纖維與綿羊毛混合物	- Fibre content (quantitative method - microscopic analysis)	AATCC TM20A-2021 Cl. 14 ISO 17751-1: 2023 (Light microscopy method)
	纖維含量《定量分析- 顯微投影法》	GB/T 16988-2013
Elastane fiber 氨綸纖維	- Fibre content (quantitative method - manual separation and chemical analysis) 纖維含量《定量分析-人工分離及化學分析》	FZ/T 01095-2002
Flax / cotton blended grey yarn 亞麻棉混紡本色紗綫	- Fibre content (quantitative method - microscopic analysis) 纖維含量《定量分析- 顯微投影法》	FZ/T 30004-1996 appendix B FZ/T 30004-2009 SN/T 0759-1999
Quaternary fibre 四組分纖維混合物	- Fibre content (quantitative method - chemical analysis) 纖維含量《化學分析》	FZ/T 01026-2017
Ramie(flax hemp)cotton blended textile 麻棉混紡產品	- Fibre content (quantitative method - microscopic analysis) 纖維含量《定量分析- 顯微投影法》	FZ/T 30003-2009 < ***Excluding the following 不包括*** > Cl. 6.2 第 6.2 節
Silk and cashmere blend textile 蠶絲/羊絨混紡產品	- Fibre content (quantitative method - silk and cashmere blend textile) 纖維含量《定量分析-蠶絲/羊絨混紡產品》	FZ/T 01048-1997

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Textiles and Garments 紡織品及成衣

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
General textiles and garments 一般紡織品及成衣	Flammability tests :- - 45° angle test	ASTM D1230 - 22a US 16 CFR Part 1610 (Including amendments 88 FR 73230, 88 FR 73231 and 88 FR 73233) GB/T 14644-2014
	- Horizontal test	ASTM D4151 - 18
	- Surface flash	BS 4569: 1983
	- Vertical test	BS EN ISO 6941: 2003 16CFR Parts 1615 and 1616 (DOCFF 3 & 5) (2004 Edition)
Other Materials :- - Vinyl plastic film	- Flammability of vinyl plastic film	US 16 CFR Part 1611
Specific Products :- - Bed covers and pillows	- Ignitability by cigarette test	BS EN ISO 12952-1: 2010 EN ISO 12952-1: 2010 ISO 12952-1: 2010 BS EN ISO 12952-2: 2010 EN ISO 12952-2: 2010 ISO 12952-2: 2010
- Camping tentage	- Vertical test	US IFAI (Industrial Fabric Association International) CPAI-84 (2021)
- Carpet and rugs	- Methenamine tablet test	US 16 CFR Parts 1630 and 1631 (DOCFF 1 & 2)
- Sleeping bag	- Horizontal test	ASTM F1955 - 20 US IFAI (Industrial Fabric Association International) CPAI-75 (1976)
- Sleepwear	- Vertical test	BS 5722: 1984 BS 5438: 1976 test 3 BS 5651: 1978 cl. 6.5.2 BS EN 14878: 2007 AS/NZS 1249: 2014 + A1: 2014 + A2: 2017 + A3: 2020

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Textiles and Garments 紡織品及成衣

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Flammability tests :- (cont'd)	
Specific Products :- (cont'd)		
- Textile Floor Coverings	- Hot metal nut method	BS 4790: 1987 + Amd. 1 and 2
	- Assessment and labelling	BS 5287: 1988
- Wearing apparel	- Vertical test	EN 1103:2005 < ***Excluding the following*** > dry clean method
	- Surface burning time	ISO 10047: 1993

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Textiles and Garments 紡織品及成衣

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
General textiles and garments 一般紡織品及成衣	Strength tests :-	
	- Bursting strength (hydraulic method) 頂破強力《彈性膜片法》	BS EN ISO 13938-1: 2019 EN ISO 13938-1: 2019 ISO 13938-1: 2019 GB/T 7742.1-2005
	- Bursting strength (0-200 p.s.i.)	ASTM D3786 / D3786M - 18(2023) ISO 13938-2: 2019 BS EN ISO 13938-2: 2019
	- Bursting strength (steel ball method) 頂破強力《鋼球法》	GB/T 19976-2005
	- Elasticity of fabrics (strip tests)	BS EN 14704-1: 2005 method A BS EN ISO 20932-1: 2020 + A1: 2021 EN ISO 20932-1: 2020 ISO 20932-1: 2018 ***< Excluding the following >*** for the three standards above cl. 5, 6.3, 8.2.1.2, 8.2.2.2, 8.2.3.2, 9.1.2, 9.2.2 & Annex B
	- Elasticity of fabrics (narrow fabric)	BS EN ISO 20932-3: 2020 EN ISO 20932-3: 2020 ISO 20932-3: 2018 ***< Excluding the following >*** for the three standards above cl. 4.2, 5, 9.2 & Annex B
	- Seam slippage 縫子紕裂程度	ASTM D434 - 95 JIS L1096-2010 (based on English version published in 2012-10) section 8.23 method B BS 3320: 1988 Amd. 6261: 90 (1995) BS EN ISO 13936-1: 2004 BS EN ISO 13936-2: 2004 GB/T 21294-2014 cl. 9.2.1

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Textiles and Garments 紡織品及成衣

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
General textiles and garments 一般紡織品及成衣	Strength tests :- (Cont'd) - Seam strength 接縫強力	ASTM D1683 / D1683M - 22 JIS L1093-2011 (based on English version published in 2013-02) BS EN ISO 13935-2: 2014 GB/T 21294-2014 cl. 9.2.2 and 9.2.3
	- Seam strength (Bursting method) 接縫強力《頂破法》	FZ/T 01030-2016 method A < ***Excluding the following*** > overlock stitching method in app. A
	- Seam strength (Grab method) 接縫強力《抓樣拉伸法》	FZ/T 01031-2016
	- Single yarn strength	ASTM D2256 / D2256M - 21 ***<Excluding the following>*** section 10.2, 10.3, 11.2, 11.3, 11.4, 11.5, 11.6 ISO 2062: 2009 method A BS EN ISO 2062: 2009 method A

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Textiles and Garments 紡織品及成衣

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
General textiles and garments 一般紡織品及成衣	Strength tests :- (cont'd) - Stretch and Recovery	BS 4952: 1992 cl. 2.1, 2.2 and 2.4
	- Tearing strength (Elmendorf) 撕破強力《沖擊擺錘法》	ASTM D1424 - 21 JIS L1096-2010 (based on English version published in 2012-10) section 8.17.4 methd D AS 2001.2.8-2001 CAN/CGSB 4.2 No.12.3-2005 (R2013) ISO 13937-1: 2000 Corr.1: 2004 GB/T 3917.1-2009
	- Tearing strength (single rip tear method) 撕破強力《單縫隙褲形試樣法》	BS EN ISO 13937-2: 2000 EN ISO 13937-2: 2000 ISO 13937-2: 2000 GB/T 3917.2-2009
	- Tearing strength (Tongue method)	ASTM D2261 - 13(2017) ***<Excluding the following>*** section 9.2
	- Tearing strength (tongue tear (wing-rip) method)	BS EN ISO 13937-3: 2000 EN ISO 13937-3: 2000 ISO 13937-3: 2000
	- Tensile strength (Breaking force by strip method) 斷裂強力《條樣法》	ASTM D5035 - 11(2019) GB/T 3923.1-2013 ISO 13934-1: 2013 BS EN ISO 13934-1: 2013 JIS L1096-2010 (based on English version published in 2012-10) section 8.14.1 method A
	- Tensile strength (Grab method) 撕破強力《抓形法》	ASTM D5034 - 21 JIS L1096-2010 (based on English version published in 2012-10) section 8.14.1 method B BS EN ISO 13934-2: 2014 ISO 13934-2: 2014 GB/T 3923.2-2013
	- Tear resistance (non-woven)	BS EN ISO 9073-4: 2021 EN ISO 9073-4: 2021 ISO 9073-4: 2021

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Textiles and Garments 紡織品及成衣

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Strength tests :- (cont'd)	
- Garments used adhesive interling 使用粘合襯服裝	- Peel off strength value 剝離強力	FZ/T 80007.1-2006
- Woven fabrics 機織物	- Elongation at fixed stress 定力伸長	FZ/T 01034-2008 cl. 8.3.1
Other Materials :-		
- Fabrics coated with rubber or plastics	- Flexing resistance	BS EN ISO 7854: 1997 method C
	- Tear resistance	ISO 4674-1: 2016
	- Tensile strength and elongation at break	ISO 1421: 2016
Specific Products		
- Zippers	- Zipper strength	ASTM D2061 - 07(2021) < ***Excluding the following*** > section 5.1, 33 to 51

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Textiles and Garments 紡織品及成衣

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Performance tests :- (cont'd)	
Specific Products :- - Camping mattress (for single bed only)	- Thermal resistance	ASTM F3340 - 22
- Footwear 鞋類 - Footwear materials - heels	- Fatigue resistance	ISO 19956: 2004
- shanks	- Specifications of footwear products 鞋類成品的要求	GB 28011-2011 *<Excluding the following 不包括>* Cl. 8 and 9 第 8 及 9 節
	- Rockwell hardness of metallic materials (Type HR15N, HRA and HRC only) 金屬材料的硬度 (HR15N, HRA 及 HRC)	GB/T 230.1-2018
	- Longitudinal stiffness of shanks 皮鞋勾心縱向剛度	QB/T 1813-2000
	- Fatigue resistance 抗疲勞性	GB/T 3903.35-2008
- outsole 外底	- Abrasion resistance of vulcanized rubber 硫化橡膠或熱塑橡膠的耐磨性能	GB/T 1689-2014
	- Density of rubber (vulcanized or thermoplastic) 硫化橡膠或熱塑橡膠的密度	GB/T 533-2008 method A
	- Hardness of rubber (vulcanized or thermoplastic) 硫化橡膠或熱塑橡膠的硬度	GB/T 531.1-2008 type A&D
	- Tensile strength of rubber (vulcanized or thermoplastic) 硫化橡膠或熱塑橡膠的拉伸應力	GB/T 528-2009 type 1 dumbell
	- Upper sole adhesion	BS EN ISO 17708: 2018 EN ISO 17708: 2018 ISO 17708: 2018

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Textiles and Garments 紡織品及成衣

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Performance tests :- (cont'd)	
Specific Products :- (cont'd) - Footwear 鞋類 (cont'd) - Footwear materials (cont'd)		
- uppers and linings 圍條與鞋幫	- Adhesion strength of fabric bonded with rubber (vulcanized or thermoplastic) 硫化橡膠或熱塑橡膠與織物的粘合強度	GB/T 532-2008
	- Flex resistance	BS EN 13512: 2002 BS EN ISO 5402-1: 2022 ISO 17694: 2016
- uppers and linings(Leather)	- Flexibility and adhesion of finish	ASTM D6182 - 00(2015)
- Footwear 鞋類		
- Children's footwear 兒童鞋	- Specifications of footwear products	GB 30585-2014
- Rubber shoes 膠鞋	- Specifications of footwear products	GB25038-2010
- Sport shoes 普通運動鞋	- Specifications of footwear products 鞋類成品的要求	HG/T 2017-2011 *<Excluding the following 不包括>* Cl. 5 第 5 章
- Whole shoe	- Toe adhesion strength	BS 5131-5.1: 1990
	- Flex resistance of whole rubber shoe	HG/T 2871-2022 method A

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Textiles and Garments 紡織品及成衣

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Performance tests :-	
Specific Products :- (cont'd) - Protective clothing, protective gloves:-		
- Protective clothing (materials and seams of protective clothing)	- Protection against rain	BS EN 343: 2019 EN 343: 2019
- Protective clothing materials	- Light blocking effect	AATCC TM203-2016e
	- Solar UV protective properties	GB/T 18830-2009
	- Thermal resistance	BS 4745: 2005 < ***Excluding the following*** > Cl. 10.1
	- Water vapour permeability	ASTM E96 / E96M - 22ae1 < ***Excluding the following*** > section 8 GB/T 21655.1-2023 < ***Excluding the following*** > Cl. 7.1 第 7.1 節 GB/T 12704.1-2009 GB/T 12704.2-2009
- Protective clothing	- Electrostatic properties	BS EN 1149-1: 2006 EN 1149-1: 2006
- Protective clothing - Enhanced visibility equipment for medium risk situations	- Performance requirements	EN 17353: 2020 BS EN 17353: 2020 ***<Excluding the following>*** for the above two standards Cl. 7.4.5, 7.4.6, 7.5.3, 8 and 9
- Protective clothing for non professional use	- Optical performance requirements	EN 1150: 1999 NF EN 1150: 1999 < ***Excluding the following*** > Cl. 7.4.5.3, 8, 9, 10

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Textiles and Garments 紡織品及成衣

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Performance tests :- (cont'd)	
Specific Products :- (cont'd) - Protective clothing / protective gloves:- (cont'd)		
- Protective clothing (high visibility)	- Performance requirements	BS EN ISO 20471: 2013 + A1: 2016 EN ISO 20471: 2013 + A1: 2016 ISO 20471: 2013/Amd.1: 2016 < ***Excluding the following*** > for the above three standards Cl. 5.6.3 (test to ISO 13688: 1998), 8, 9
- High visibility safety apparel		ANSI/ISEA 107-2020 < ***Excluding the following*** > Cl. 6.1, 7.4, 10.4.5.3, 10.5, 11, 12, 13, 14
- High visibility safety apparel	- Performance requirements	CSA Z96-22 < ***Excluding the following*** > Cl. 4.2.1, 7.4.8, 8, 9, 10
- Retroreflector used in protective clothing	- Optical performance	EN 13356: 2001 BS EN 13356: 2001
- Protective gloves	- General requirements	BS EN 420: 2003 + A1: 2009 EN 420: 2003 + A1: 2009 < ***Excluding the following*** > for the above 2 standards Cl. 4.2 (for leather gloves), 4.3.3, 4.3.4, 7 ISO 21420: 2020 < ***Excluding the following*** > Cl. 4.4, 7
	- Assessment of mechanical risks	BS EN 388: 2016 + A1: 2018 EN 388: 2016 + A1: 2018 < ***Excluding the following*** > for the above 2 standards Cl. 4.2, 6.6 and 7 ISO 23388: 2018 < ***Excluding the following*** > Cl. 4.2, 6.6 and 7

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Textiles and Garments 紡織品及成衣

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Performance tests :-	
Specific Products :- (cont'd) - Textiles and Garment Products (GB, GB/T)		
- Textiles Products 紡織產品	- Instruction for use of products of consumer interest – Instruction for use of textiles and apparel 紡織產品和服裝使用說明	GB 5296.4-2012
	- National general safety technical code 基本技術安全規範	GB 18401-2010
- Infants and children wear 嬰幼兒及兒童紡織產品	- Specifications of garment products 服裝成品的要求	GB 31701-2015 *<Excluding the following 不包括>* Cl. 6.1, 6.2 and 6.4 第 6.1, 6.2 及 6.4 節
- Cotton knitted underwear 棉針織內衣	- Specifications of garment products 服裝成品的要求	GB/T 8878-2014
- Clothes with fillings 棉服裝	- Specifications of garment products 服裝成品的要求	GB/T 2662-2017 cl. 3.11, 3.12 and 4.4
- Down garments 羽絨服裝	- Specifications of garment products 服裝成品的要求	GB/T 14272-2021 cl. 4.1, 4.3.3, 4.11, 5.1, 5.3, 5.4, 5.6, app. A, B, C, D
- Knitted children's wear 針織兒童服裝	- Specifications of garment products 服裝成品的要求	GB/T 73045-2013 *<Excluding the following 不包括>* Cl. 4.4, 5.1, 6.1, 6.3, 7.2, 7.3 and 7.4 第 4.4, 5.1, 6.1, 6.3, 7.2, 7.3 及 7.4 節
- Knitted school uniform 針織學生服	- Specifications of garment products 服裝成品的要求	GB/T 22854-2009
- Knitted sportwear 針織運動服	- Specifications of garment products 服裝成品的要求	GB/T 22853-2019 *<Excluding the following 不包括>* Cl. 5.4, 6.1, 6.3, 7.2, 7.3 and 7.4 第 5.4, 6.1, 6.3, 7.2, 7.3 及 7.4 節
- Knitted T-shirt 針織 T 恤衫	- Specifications of garment products 服裝成品的要求	GB/T 22849-2014
- Men's suits and coats 男西服、大衣	- Specifications of garment products 服裝成品的要求	GB/T 2664-2017 cl. 3.12 and 4.4

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Textiles and Garments 紡織品及成衣

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Performance tests :- (cont'd)	
Specific Products :- (cont'd) - Textiles and Garment Products (GB, GB/T) (cont'd)		
- Neckties 領帶	- Specifications of garment products 服裝成品的要求	GB/T 23314-2021 cl. 4.8, 5.4, app.A
- Outdoor sportswear – water resistant garment 户外運動服裝	- Specifications of garment products 服裝成品的要求	GB/T 32614-2016 < ***Excluding the following 不包括*** > Cl. 5.4, 6.1, 6.3, 7.2, 8.2, 8.3 and 8.4 第 5.4, 6.1, 6.3,7.2, 8.2, 8.3 及 8.4 節
- Silk garments 絲綢服裝	- Specifications of garment products 服裝成品的要求	GB/T 18132-2016 cl. 4.12, 5.4
- Shirts and blouses 襯衫	- Specifications of garment products 服裝成品的要求	GB/T 2660-2017 cl. 3.11, 3.12, 4.4
- Trousers 西褲	- Specifications of garment products 服裝成品的要求	GB/T 2666-2017 cl. 3.12, 4.4, app. A
- Washed garments 水洗整理服裝	- Specifications of garment products 服裝成品的要求	GB/T 22700-2016 cl. 4.10, 5.4, app. B
- Women's suits and coats 女西服、大衣	- Specifications of garment products 服裝成品的要求	GB/T 2665-2017 cl. 3.12, 4.4
- Woven children's clothing 機織兒童服裝	- Specifications of garment products 服裝成品的要求	GB/T 31900-2015 cl. 3.12, 4.4
- Woven garments for infant 機織嬰幼兒服裝	- Specifications of garment products 服裝成品的要求	GB 33271-2016 < ***Excluding the following 不包括*** > Cl. 4.3, 4.4, 4.5, 4.6, 4.7, 4.8, 4.9, 4.10, 4.11, 5.3, 5.4.6, 6 and 7 第 4.3, 4.4, 4.5, 4.6, 4.7, 4.8, 4.9, 4.10, 4.11 5.3, 5.4.6, 6 及 7 節
- Woven garments for students 機織學生服	- Specifications of garment products 服裝成品的要求	GB/T 23328-2009

SGS Hong Kong Limited
香港通用檢測認證有限公司

1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Textiles and Garments 紡織品及成衣

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Performance tests :- (cont'd)	
Specific Products :- (cont'd) - Textiles and Garment Products (FZ/T) - Brassiere 文胸		
- Brassiere 文胸	- Specifications of garment products 服裝成品的要求	FZ/T 73012-2017 ***<Excluding the following 不包括>*** Cl. 5.4, 6.2, 7.1, 7.3 and 8 第 5.4, 6.2, 7.1, 7.3 及 8 節
- Moulded bra 一體成型文胸	- Specifications of garment products 服裝成品的要求	FZ/T 73046-2020 cl. 5.2, 6.1, app.A
- Sports brassiere 運動文胸	- Specifications of garment products 服裝成品的要求	FZ/T 74002-2014 ***<Excluding the following 不包括>*** Cl. 5.4, 6.2, 7.1, 7.3, 8.2, 8.3 and 8.4 第 5.4, 6.2, 7.1, 7.3, 8.2, 8.3 及 8.4 節
- Woven brassiere 機織文胸	- Specifications of garment products 服裝成品的要求	FZ/T 81020-2014 ***<Excluding the following 不包括>*** Cl. 4.3, 4.5, 4.6, 4.7, 5.2, 5.3, 6 and 7 第 4.3, 4.4, 4.5, 4.6, 4.7, 5.2, 5.3, 6 及 7 節
- Casual wear 單、夾服裝	- Specifications of garment products 服裝成品的要求	FZ/T 81007-2022 ***<Excluding the following 不包括>*** Cl. 6 and 7 第 6 及 7 節
- Children's clothing and student's wear 兒童服裝、學生服	- Specifications of garment products 服裝成品的要求	FZ/T 81003-2003
- Infant's wear 嬰幼兒服裝	- Specifications of garment products 服裝成品的要求	FZ/T 81014-2008 ***<Excluding the following 不包括>*** Cl. 5.4.6 and 5.4.7 第 5.4.6 及 5.4.7 節
- Jackets 茄克衫	- Specifications of garment products 服裝成品的要求	FZ/T 81008-2021 cl. 3.11, 4.4
- Jeanswear 牛仔服裝	- Specifications of garment products 服裝成品的要求	FZ/T 81006-2017 cl. 4.11, 5.4, app. B, C

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Textiles and Garments 紡織品及成衣

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Performance tests :- (cont'd)	
Specific Products :- (cont'd) - Textiles and Garment Products (FZ/T) (cont'd) - Kintted products and wears		
- Cashmere knitting goods 羊絨針織品	- Specifications of garment products 服裝成品的要求	FZ/T 73009-2021 *<Excluding the following 不包括>* Cl. 5.4, 6.3, 7, 8, 9, 10 and app.B 第 5.4, 6.3, 7, 8, 9, 10 節及附錄 B
- Printing cashmere knitting goods 印花羊絨針織品	- Specifications of garment products 服裝成品的要求	FZ/T 24019-2012 *<Excluding the following 不包括>* Cl. 6.2 第 6.2 節
- Knitted accessories 針織配飾品	- Specifications of garment products 服裝成品的要求	FZ/T 73044-2012 *<Excluding the following 不包括>* Cl. 6.1, 7.1, 8.2, 8.3 and 8.4 第 6.1, 7.1, 8.2, 8.3 及 8.4 節
- Knitted cap 針織帽	- Specifications of garment products 服裝成品的要求	FZ/T 73002-2016 cl. 3.5 and 4.4
- Knitted civil gloves 針織民用手套	- Specifications of garment products 服裝成品的要求	FZ/T 73047-2013 *<Excluding the following 不包括>* Cl. 4.3, 5.14, 5.2, 6.1, 6.3, 7.2, 7.3 and 7.4 第 4.3, 5.14, 5.2, 6.1, 6.3, 7.2, 7.3 及 7.4 節
- Knitted garment and adornment for Infant 嬰幼兒針織服飾	- Specifications of garment products 服裝成品的要求	FZ/T 73025-2019 *<Excluding the following 不包括>* Cl. 5.4, 6.2, 7, 8 and 9 第 5.4, 6.2, 7, 8 及 9 節
- Knitted homewear 針織家居服	- Specifications of garment products 服裝成品的要求	FZ/T 73017-2014
- Knitted jeanswear 針織牛仔服裝	- Specifications of garment products 服裝成品的要求	FZ/T 73032-2017 *<Excluding the following 不包括>* Cl. 5.4, 6.3, 7.1, 7.3 and 8 第 5.4, 6.3, 7.1, 7.3 及 8 節
- Knitted scarf and shawl 針織圍巾披肩	- Specifications of garment products 服裝成品的要求	FZ/T 73042-2011 cl. 4.7, 5.2 *<Excluding the following 不包括>* Cl. 4.4, 5.1, 5.2, 6.1, 6.3, 7.2, 7.3 and 7.4 第 4.4, 5.1, 5.2, 6.1, 6.3, 7.2, 7.3 及 7.4 節

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Textiles and Garments 紡織品及成衣

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Specific Products :- (cont'd) - Textiles and Garment Products (FZ/T) (cont'd) - Kintted products and wears (cont'd)	Performance tests :- (cont'd)	
- Knitted shirts 針織襯衫	- Specifications of garment products 服裝成品的要求	FZ/T 73043-2020 *<Excluding the following 不包括>* Cl. 4.3, 5.1, 5.2, 5.3, 6 and 7 第 4.3, 5.1, 5.2, 5.3, 6 及 7 節
- Knitted skirt suit 針織裙套	- Specifications of garment products 服裝成品的要求	FZ/T 73026-2014
- Knitted sportwear 針織運動服	- Specifications of garment products 服裝成品的要求	FZ/T 73007-2002
- Knitted sportswear 針織休閒服裝	- Specifications of garment products 服裝成品的要求	FZ/T 73020-2019 *<Excluding the following 不包括>* Cl. 5.4, 6.2, 7, 8 and 9 第 5.4, 6.2, 7, 8 及 9 節
- Knitted swimming suits 針織泳裝	- Specifications of garment products 服裝成品的要求	FZ/T 73013-2017 *<Excluding the following 不包括>* Cl. 4.3, 5.2, 6.1, 6.3 and 7 第 4.3, 5.2, 6.1, 6.3 及 7 節
- Knitted trousers 針織褲	- Specifications of garment products 服裝成品的要求	FZ/T 73029-2019 *<Excluding the following 不包括>* Cl. 6.3, 7.1, 7.2, 8.1, 8.3, 8.4 and 9 第 6.3, 7.1, 7.2, 8.1, 8.3, 8.4 及 9 節
- Knitted underwear 針織內衣		
- Knitted constructive in-wear - elastic style 針織塑身內衣-彈力型	- Specifications of garment products 服裝成品的要求	FZ/T 73019.1-2017 *<Excluding the following 不包括>* Cl. 5.4, 6.1, 6.2, 7.1 and 8 第5.4, 6.1, 6.2, 7.1及8節
- Knitted shape wear - figured-style 針織塑身內衣 調整型	- Specifications of garment products 服裝成品的要求	FZ/T 73019.2-2020 *<Excluding the following 不包括>* Cl. 6.3, 7.2, 8, 9 and 10 第 6.3, 7.2, 8, 9 及 10 節
- Knitted thermal underwear 針織保暖內衣	- Specifications of garment products 服裝成品的要求	FZ/T 73022-2019 *<Excluding the following 不包括>* Cl. 4.4, 5.2.15, 6, 7 and 8 第 4.4, 5.2.15, 6, 7 及 8 節

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Textiles and Garments 紡織品及成衣

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Specific Products :- - Textiles and Garment Products (FZ) (cont'd) - Kintted products and wears (cont'd) - Knitted underwear (cont'd) 針織內衣	Performance tests :- (cont'd)	
- Knitted underwear with chemical fibres 化纖針織內衣	- Specifications of garment products 服裝成品的要求	FZ/T 73024-2014 ***<Excluding the following 不包括>*** Cl. 4.4, 5.2, 6.3, 7.2, 7.3 and 7.4 第 4.4, 5.2, 6.3, 7.2, 7.3 及 7.4 節
- Knitted workmanship sweater 針織工藝衫	- Specifications of garment products 服裝成品的要求	FZ/T 73010-2016 ***<Excluding the following 不包括>*** Cl. 5.4, 6.2, 7.1, 7.2, 8.2, 8.3 and 8.4 第 5.4, 6.2, 7.1, 7.2, 8.2, 8.3 及 8.4 節
- Silk knitting garments 桑蠶絲針織服裝	- Specifications of garment products 服裝成品的要求	FZ/T 43015-2021 ***<Excluding the following 不包括>*** Cl. 6 and 7 第 6 及 7 節
- Washed knitted garments 水洗整理針織服裝	- Specifications of garment products 服裝成品的要求	FZ/T 73052-2015 ***<Excluding the following 不包括>*** Cl. 5.4, 7.1, 8.2, 8.3 and 8.4 第 5.4, 7.1, 8.2, 8.3 及 8.4 節
- Wool knitting goods 毛針織品	- Specifications of garment products 服裝成品的要求	FZ/T 73018-2021 ***<Excluding the following 不包括>*** Cl. 5.4, 6.3, 7, 8, 9 and 10 第 5.4, 6.3, 7, 8, 9 及 10 節
- Low wool content and wool like knitting goods 低含毛混紡及仿毛針織品	- Specifications of garment products 服裝成品的要求	FZ/T 73005-2021 ***<Excluding the following 不包括>*** Cl. 4.4, 5.3, 6, 7, 8 and 9 第4.4, 5.3, 6, 7, 8及9節
- Pajamas 睡衣套	- Specifications of garment products 服裝成品的要求	FZ/T 81001-2016 cl. 4.12, 5.4
- Scarf and shawl 機織圍巾披肩	- Specifications of garment products 服裝成品的要求	FZ/T 81012-2016 cl. 4.7, 5.2
- Silk & filament yarn scarf 絲綢針織圍巾	- Specifications of garment products 服裝成品的要求	FZ/T 43014-2018 ***<Excluding the following 不包括>*** Cl. 4.5, 5.2, 6 and 7 第 4.5, 5.2, 6 及 7 節

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Textiles and Garments 紡織品及成衣

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Performance tests :- (cont'd)	
Specific Products :- (cont'd)		
- Textiles and Garment Products (FZ/T) (cont'd)		
- Skirts and skirted suit 連衣裙、裙套	- Specifications of garment products 服裝成品的要求	FZ/T 81004-2022 ***<Excluding the following 不包括>*** Cl. 6 and 7 第 6 及 7 節
- Suits with no fusible interlining 非粘合襯西服	- Specifications of garment products 服裝成品的要求	FZ/T 81017-2012 ***<Excluding the following 不包括>*** Cl. 6 and 7 第 6 及 7 節
- Trench coats 風衣	- Specifications of garment products 服裝成品的要求	FZ/T 81010-2018 cl. 3.11, 3.12, 4.4
- Woven products and wears		
- Woven belt 機織腰帶	- Specifications of garment products 服裝成品的要求	FZ/T 63005-2019 ***<Excluding the following 不包括>*** Cl. 4.4, 5, 6.9, 7, 8 and 9 第 4.4, 5, 6.9, 7, 8 及 9 節
- Woven cap 縫製帽	- Specifications of garment products 服裝成品的要求	FZ/T 82002-2016 cl. 3.5, 4.4
- Woven swimming wear 機織泳裝	- Specifications of garment products 服裝成品的要求	FZ/T 81021-2014 cl. 4.9, 5.4
- Textiles accessories (QB/T)		
- Handbag and knapsack 背提包	- Specifications of garment products 服裝成品的要求	QB/T 1333-2018 ***<Excluding the following 不包括>*** Cl. 4.1.1, 4.2, 5.1, 5.2, 6 and 7 第 4.1.1, 4.2, 5.1, 5.2, 6 及 7 節
- Pencil bag 筆袋	- Specifications of garment products 服裝成品的要求	QB/T 2772-2017 ***<Excluding the following 不包括>*** Cl. 6 and 7 第 6 及 7 節
- Wallet 票夾	- Specifications of garment products 服裝成品的要求	QB/T 1619-2018 ***<Excluding the following 不包括>*** Cl. 5.1, 5.2, 6.1, 6.2, 7 and 8 第 5.1, 5.2, 6.1, 6.2, 7 及 8 節

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Textiles and Garments 紡織品及成衣

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Performance tests :- (cont'd)	
Specific Products :- - Textiles accessories (cont'd) - Socks		
- Hosiery 襪子	- Specifications of garment products 服裝成品的要求	FZ/T 73001-2016 ***<Excluding the following 不包括>*** Cl. 5.3.2, 5.3.3, 6.1, 6.2.1, 6.2.2, 6.2.3, 6.2.5, 7.1, 8.3 and 8.4 第 5.3.2, 5.3.3, 6.1, 6.2.1, 6.2.2, 6.2.3, 6.2.5, 7.1, 8.3 及 8.4 節
- Anti-embolism hosiery	- Compression, stiffness and labelling	BS 7672: 1993
- Non-precsiptive graudated support hosiery	- Compression, stiffness and labelling	BS 7563: 1999
- Graudated compression hosiery	- Compression, stiffness and labelling	BS 661210: 2018 + A1: 2022
- Knitted sports socks 針織運動襪	- Specifications of garment products 服裝成品的要求	FZ/T 73037-2019 ***<Excluding the following 不包括>*** Cl. 5.3, 6.1, 6.2, 6.4.8, 7.1, 7.3, 7.4 and 8 第 5.3, 6.1, 6.2, 6.4.8, 7.1, 7.3, 7.4 及 8 節
- Pressure socks 壓力襪	- Specifications of garment products 服裝成品的要求	FZ/T 73031-2009 ***<Excluding the following 不包括>*** Cl. 5.2, 5.3.3, 6.1, 6.2, 7.1.1, 7.1.2.1, 8.2, 8.3 and 8.4 第 5.2, 5.3.3, 6.1, 6.2, 7.1.1, 7.1.2.1, 8.2, 8.3 及 8.4 節

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Textiles and Garments 紡織品及成衣		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Textiles products	Microbiological test:- Textiles – Determination of antibacterial activity and efficacy on textile products	JIS L 1902:2015 (Quantitative test – Absorption method only) Type of bacteria: *Staphylococcus aureus* and *Klebsiella pneumoniae only*

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Chemical tests :-	
Toys and other articles intended for use by children – paint and other similar surface-coating materials	- Total lead content	US Public Law 110 -314 Consumer Product Safety Improvement Act 2008 US 16 CFR Part 1303 *Test Procedures for Compliance testing:-* CPSC Test method: CPSC-CH-E1003-09.1 Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings, February 25, 2011 ASTM F2853-10 (reapproved 2015) (For determination of lead in paint layers and similar coatings on plastic and metal substrates only)
Children's metal products	- Total lead content	US Public Law 110 -314 Consumer Product Safety Improvement Act 2008 *Test Procedures for Compliance testing*: CPSC Test Method: CPSC-CH-E1001-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Children's Metal Products (Including Children's Metal Jewelry), November 15, 2012 ***<Excluding the following>*** XRF spectrometry
Children's non-metal products	- Total lead content	*Test Procedures for Compliance testing*: CPSC Test Method: CPSC-CH-E1002-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Non-Metal Children's Products, November 15, 2012 ***<Excluding the following>*** XRF spectrometry
Toys and childcare articles	- Dibutyl Phthalate (DBP) - Di-(2ethylhexyl) phthalate (DEHP) - Benzyl Butyl Phthalate (BBP) - Diisobutyl phthalate (DIBP) - Diisononyl phthalate (DINP) - Di-n-pentyl phthalate (DPENP) - Di-n-Hexyl phthalate (DHEXP) - Dicyclohexyl phthalate (DCHP)	US 16 CFR Part 1307 *Test Procedures for Compliance testing*: CPSC Test Method: CPSC-CH-C1001-09.4 Standard Operating Procedure for Determination of Phthalates, January 2018

SGS Hong Kong Limited
香港通用檢測認證有限公司

1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Chemical tests :- (cont'd)	
Toys – paint and similar surface-coating materials	- Total lead content	ASTM F963-17 Cl. 4.3.5.1 (1) *Test Procedures for Compliance testing:* CPSC Test method: CPSC-CH-E1003-09.1 Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings, February 25, 2011
	- Migration of the elements Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	ASTM F963-17 Cl. 4.3.5.1 (2) *Test Procedures for Compliance testing:* ASTM F963-17 Cl. 8.3.2 – 8.3.4
Toys – substrate materials	- Total lead content	ASTM F963-17 Cl 4.3.5.2 (2)(a) *Test Procedures for Compliance testing:* CPSC Test Method: CPSC-CH-E1001-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Children's Metal Products (Including Children's Metal Jewelry), November 15, 2012 ***<Excluding the following>*** XRF spectrometry *Test Procedures for Compliance testing:* CPSC Test Method: CPSC-CH-E1002-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Non-Metal Children's Products, November 15, 2012 ***<Excluding the following>*** XRF spectrometry
	- Migration of the elements Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	ASTM F963-17 Cl. 4.3.5.2 (2)(b) *Test Procedures for Compliance testing:* ASTM F963-17 Cl. 8.3.5
Metallic toys or metallic toy components	Extractable Cadmium	ASTM F963-17 Cl. 4.3.5.2 (2)(c) *Test Procedures for Compliance testing:* ASTM F963-17 Cl. 8.3.5.5(3) and CPSC Test Method: CPSC-CH-E1004-11 Standard Operating Procedure for Determining Cadmium (Cd) Extractability from Children's Metal Jewelry February 03, 2011

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests :- (cont'd)	
Toys – paint and similar surface-coating materials	- Total lead content	ASTM F963-23 Cl. 4.3.5.1 (1) *Test Procedures for Compliance testing:* CPSC Test method: CPSC-CH-E1003-09.1 Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings, February 25, 2011
	- Migration of the elements Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	ASTM F963-23 Cl. 4.3.5.1 (2) *Test Procedures for Compliance testing:* ASTM F963-23 Cl. 8.3.2 – 8.3.4
Toys – substrate materials	- Total lead content	ASTM F963-23 Cl 4.3.5.2 (2)(a) *Test Procedures for Compliance testing:* CPSC Test Method: CPSC-CH-E1001-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Children's Metal Products (Including Children's Metal Jewelry), November 15, 2012 ***<Excluding the following>*** XRF spectrometry *Test Procedures for Compliance testing:* CPSC Test Method: CPSC-CH-E1002-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Non-Metal Children's Products, November 15, 2012 ***<Excluding the following>*** XRF spectrometry
	- Migration of the elements Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	ASTM F963-23 Cl. 4.3.5.2 (2)(b) & (c) *Test Procedures for Compliance testing:* ASTM F963-23 Cl. 8.3.5
Metallic toys or metallic toy components	Extractable Cadmium	ASTM F963-23 Cl. 4.3.5.2 (2)(d) *Test Procedures for Compliance testing:* ASTM F963-23 Cl. 8.3.5.5(3) and CPSC Test Method: CPSC-CH-E1004-11 Standard Operating Procedure for Determining Cadmium (Cd) Extractability from Children's Metal Jewelry February 03, 2011

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Chemical tests :- (cont'd)	
Paint and surface coating materials and substrate materials of children's jewelry	Total Lead content	ASTM F2923-20 Cl. 5 *Test Procedures for Compliance testing:* For paint and surface coating materials: CPSC Test method: CPSC-CH-E1003-09.1 Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings, February 25, 2011 For substrate materials: CPSC Test Method: CPSC-CH-E1001-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Children's Metal Products (Including Children's Metal Jewelry), November 15, 2012 ***<Excluding the following>*** XRF spectrometry CPSC Test Method: CPSC-CH-E1002-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Non-Metal Children's Products, November 15, 2012 ***<Excluding the following>*** XRF spectrometry
Paint and surface coating materials of children's jewelry	- Soluble Antimony, Arsenic, Barium, Cadmium, Chromium, Mercury and Selenium	ASTM F2923-20 Cl. 8 *Test Procedures for Compliance testing:* ASTM F963-23 Cl. 8.3.2 – 8.3.4 ASTM F963-17 Cl. 8.3.2 – 8.3.4
Plastic & metal substrate materials of children's jewelry	- Screening of total Cadmium content	ASTM F2923-20 Cl. 9 *Test Procedures for Compliance testing:* For metal: ASTM F963-17 Cl. 8.3.1.1 – 8.3.1.3 in conjunction with CPSC-CH-E1001-08.3 ***<Excluding the following>*** XRF spectrometry For plastic materials: ASTM F963-17 Cl. 8.3.1.1 – 8.3.1.3 in conjunction with CPSC-CH-E1002-08.3 ***<Excluding the following>*** XRF spectrometry

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Chemical tests :- (cont'd)	
Plastic & metal substrate materials of children's jewelry	- Screening of total Cadmium content	ASTM F2923-20 Cl. 9 *Test Procedures for Compliance testing:* For metal: ASTM F963-23 Cl. 8.3.1.1 – 8.3.1.3 in conjunction with CPSC-CH-E1001-08.3 ***<Excluding the following>*** XRF spectrometry For plastic materials: ASTM F963-23 Cl. 8.3.1.1 – 8.3.1.3 in conjunction with CPSC-CH-E1002-08.3 ***<Excluding the following>*** XRF spectrometry
Plastic & metal substrate materials of children's jewelry	- Soluble Cadmium	ASTM F2923-20 Cl. 9 *Test Procedures for Compliance testing:* For accessible plastic small parts: ASTM F963-23 Cl. 8.3.5 ASTM F963-17 Cl. 8.3.5 For accessible metallic small parts: ASTM F2923-20 Cl. 14.5.1 and CPSC Test Method: CPSC-CH-E1004-11 Standard Operating Procedure for Determining Cadmium (Cd) Extractability from Children's Metal Jewelry February 03, 2011 For accessible plastic and metallic non-small parts: ASTM F2923-20 Cl. 14.6
Children's jewellery intended to come into direct and prolonged contact with skin and the piercing post assembles	- Release of nickel	ASTM F2923-20 Cl. 10 *Test Procedures for Compliance testing:* EN 1811:2011+A1:2015 and EN 12472: 2005 + A1: 2009
Plasticised component of children's jewellery	- Phthalates content - Dibutyl Phthalate (DBP) - Di-(2ethylhexyl) phthalate (DEHP) - Benzyl Butyl Phthalate (BBP) - Diisobutyl phthalate (DIBP) - Diisononyl phthalate (DINP) - Di-n-pentyl phthalate (DPENP) - Di-n-Hexyl phthalate (DHEXP) - Dicyclohexyl phthalate (DCHP)	ASTM F2923-20 Cl. 11 *Test Procedures for Compliance testing*: CPSC Test Method: CPSC-CH-C1001-09.4 Standard Operating Procedure for Determination of Phthalates, January 2018

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Chemical tests :- (cont'd)	
All toys, children's product surface coating materials		Canada Toys Regulations SOR/2011-17, as amended by SOR/2022-122, Section 23
	- Total lead content	*Test procedures for compliance testing:-* Canada Health Product Safety Reference Manual Book 5 –Laboratory Policies and Procedures, Part B: Test Methods Section, Method C-02.2.1 Determination of Total Lead in Surface Coating Materials in Consumer Products by Inductively Coupled Plasma Mass Sepctrometry (ICP-MS) (2021-06-02)
	- Total mercury content	Canada Health Product Safety Reference Manual Book 5 –Laboratory Policies and Procedures, Part B: Test Methods Section, Method C-07 Determination of Total Mercury in Surface Coating Materials, Applied Coatings and Cosmetic Samples by Direct Mercury Analyzer Wide Range (DMA 80 WR) (2023-07-19)
	- Leachable arsenic, selenium, cadmium, antimony and barium	ASTM F963-23 Cl. 8.3.2 – 8.3.4

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Chemical tests :- (cont'd)	
兒童三輪車	- 特定可遷移元素 鉛，鎘，汞，鉻，砷，鋇，硒，銻	GB 14747-2006 4.1, 4.1.1 *Test Procedures for Compliance testing:* GB 6675-2003 + A1: 2005 Annex C
嬰兒學步車	- 特定可遷移元素 鉛，鎘，汞，鉻，砷，鋇，硒，銻	GB 14749-2006 Cl. 4.1.2 & 4.1.3 *Test Procedures for Compliance testing:* GB 6675-2003 + A1: 2005 Annex C
鉛筆、彩色鉛筆和繪圖用具	- 特定可遷移元素 鉛，鎘，汞，鉻，砷，鋇，硒，銻	GB 8771: 2007 *Test Procedures for Compliance testing:* GB 6675-2003 + A1: 2005 Annex C
學生用品	- 特定可遷移元素 鉛，鎘，汞，鉻，砷，鋇，硒，銻	GB 21027: 2007 Cl. 3.1 and 4.1 *Test Procedures for Compliance testing:* GB 6675-2003 + A1: 2005 Annex C
玩具 Toys	- 可遷移元素 - Migration of the elements 鉛，鎘，汞，鉻，砷，鋇，硒，銻 Lead, cadmium, mercury, chromium, arsenic, barium, selenium, antimony	GB 6675-2003 +A1: 2005 Annex C GB 6675.1-2014 Cl. 5.3.3, 5.3.4 and 5.3.5 (only for migration of elements for toy cosmetics) *Test Procedures for Compliance testing:* GB 6675.4-2014
	鄰苯二甲酸酯 The content of phthalate - 鄰苯二甲酸二丁酯 - Dibutyl phthalate (DBP) - 鄰苯二甲酸丁苄酯 - Benxyl butyl phthalate (BBP) - 鄰苯二甲酸二(2-乙基)己酯 - Di-(2ethylhexyl) phthalate (DEHP) - 鄰苯二甲酸二異壬酯 - Diisononyl phthalate (DINP) - 鄰苯二甲酸二正辛酯 - Di-n-octyl phthalate (DNOP) - 鄰苯二甲酸二異癸酯 - Diisodecyl phthalate (DIDP)	GB 6675.1-2014 Cl. 5.3.7 *Test procedures for compliance testing:* GB/T 22048-2015 method A

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Chemical tests :- (cont'd)	
玩具 Toys	鄰苯二甲酸酯 The content of phthalate - 鄰苯二甲酸二丁酯 Dibutyl phthalate (DBP) - 鄰苯二甲酸丁苄酯 Benxyl butyl phthalate (BBP) - 鄰苯二甲酸二(2-乙基)己酯 Di-(2ethylhexyl) phthalate (DEHP) - 鄰苯二甲酸二異壬酯 Diisononyl phthalate (DINP) - 鄰苯二甲酸二正辛酯 Di-n-octyl phthalate (DNOP) - 鄰苯二甲酸二異癸酯 Diisodecyl phthalate (DIDP)	GB 6675.1-2014 Cl. 5.3.7 *Test procedures for compliance testing*: GB/T 22048-2022 method A (Solid sample only) GB/T 22048-2022 method C (Liquid sample only)
玩具 Toys	鄰苯二甲酸酯 The content of phthalate - 鄰苯二甲酸二丁酯 Dibutyl phthalate (DBP) - 鄰苯二甲酸丁苄酯 Benxyl butyl phthalate (BBP) - 鄰苯二甲酸二(2-乙基)己酯 Di-(2ethylhexyl) phthalate (DEHP) - 鄰苯二甲酸二異壬酯 Diisononyl phthalate (DINP) - 鄰苯二甲酸二正辛酯 Di-n-octyl phthalate (DNOP) - 鄰苯二甲酸二異癸酯 Diisodecyl phthalate (DIDP) - 鄰苯二甲酸二異丁酯 Di-iso-Butyl Phthalate (DIBP)	GB/T 22048-2022 method A (Solid sample only) GB/T 22048-2022 method C (Liquid sample only)
Toys	- Migration of the elements Antimony, Arsenic, Barium, Boron, Cadmium, Chromium, Lead, Mercury, Selenium	AS/NZS ISO 8124.3: 2021+Amd 1:2023 (for dewaxing: Method A) ISO 8124-3: 2020+A1: 2023 (for dewaxing: Method A)

SGS Hong Kong Limited
香港通用檢測認證有限公司

1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Chemical tests (cont'd) :-	
Toys		Directive 2009/48/EC and amendments Council Directive (EC) 2017/738, Commission Directive (EU) 2018/725, Commission Directive (EU) 2019/1922 *Test Procedures for Compliance testing:*
	- Migration of certain elements	BS EN 71-3: 2019+A1:2021 EN 71-3: 2019+A1:2021
Category I toy materials: dry, brittle, powder like or pliable materials	Aluminium, Antimony, Arsenic, Barium, Boron, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Mercury, Nickel, Selenium, Strontium, Tin and Zinc	Annex E (ICP-MS)
	Chromium (VI) Chromium (III) (by calculation)	Annex F (LC-ICP-MS)
	Organic Tin: Methyltin, Butyltin, Dibutyl tin, Tributyl tin Tetrabutyl tin, n-Octy tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin, Triphenyl tin Dimethyl tin	Annex G (GC-MS)
Category II toy materials: Liquid or sticky materials	Aluminium, Antimony, Arsenic, Barium, Boron, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Mercury, Nickel, Selenium, Strontium, Tin and Zinc	Annex E (ICP-MS)
	Chromium (VI) Chromium (III) (by calculation)	Annex F (LC-ICP-MS)
	Organic Tin: Methyltin, Butyltin, Dibutyl tin, Tributyl tin Tetrabutyl tin, n-Octy tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin, Triphenyl tin Dimethyl tin	Annex G (GC-MS)

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Chemical tests (cont'd) :-	
Toys		Directive 2009/48/EC and amendments Council Directive (EC) 2017/738, Commission Directive (EU) 2018/725, Commission Directive (EU) 2019/1922 *Test Procedures for Compliance testing:*
	- Migration of certain elements	BS EN 71-3: 2019+A1:2021 EN 71-3: 2019+A1:2021
Category III toy materials: Scraped-off materials	Aluminium, Antimony, Arsenic, Barium, Boron, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Mercury, Nickel, Selenium, Strontium, Tin and Zinc	Annex E (ICP-MS)
	Chromium (VI) Chromium (III) (by calculation)	Annex F (LC-ICP-MS)
	Organic Tin: Methyltin, Butyltin, Dibutyl tin, Tributyl tin Tetrabutyl tin, n-Octy tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin, Triphenyl tin Dimethyl tin	Annex G (GC-MS)

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Chemical tests (cont'd) :-	
Coloured toys	- Resistance to artificial saliva	DIN 53160-1: 2010
	- Resistance to artificial perspiration	DIN 53160-2: 2010
Toys made from elastomers	N-nitrosamines and N-nitrosatable substances	BS EN 71-12:2016 ***<Excluding the following>*** Clause 10.1 Finger paints
Toys and children's products	- Di-iso-butyl phthalate (DIBP) - Dibutyl Phthalate (DBP) - Di-(2ethylhexyl) phthalate (DEHP) - Benzyl Butyl Phthalate (BBP) - Di-n-octyl phthalate (DNOP) - Diisononyl phthalate (DINP) - Di-iso-decyl phthalate (DIDP)	ISO 8124-6: 2023 Method A (Solid sample only) Method C (Liquid sample only)

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests (cont'd) :-	
		Japan Toy Safety Standard ST 2016 Fourth Edition (2022.10.4) Part 3
		Cl. 1.1 *Test Procedures for Compliance testing*:
All toys	- Colouring matters	Cl. 2.1
		Cl. 1.2 *Test Procedures for Compliance testing*:
Materials consisting chiefly of polyethylene and polyvinyl chloride (except parts on which coating is applied)	- Consumption of potassium permanganate - Residue on evaporation - Heavy metals - Arsenic - Cadmium (excluding materials mainly composed of polyethylene)	Cl. 1.2.1 & Cl. 2.2 Cl. 1.2.1 & Cl. 2.3 Cl. 1.2.1 & Cl. 2.4 Cl. 1.2.1 & Cl. 2.5 Cl. 1.2.1 & Cl. 2.6
		Cl. 1.3 *Test Procedures for Compliance testing*:
Decalcomania, folded paper and rubber-made toys (excluding rubber pacifiers)	- Heavy metals - Arsenic	Cl. 1.3.1 & Cl. 2.4 Cl. 1.3.1 & Cl. 2.5
		Cl. 1.4 *Test Procedures for Compliance testing*:
Polyvinyl chloride resin coating material	- Consumption of potassium permanganate - Residue after evaporation	Cl. 1.4.1 & Cl. 2.2 Cl. 1.4.1 & Cl. 2.3
		Cl. 1.5 *Test Procedures for Compliance testing*:
Paint coating material and polyvinyl chloride resin coating material (excluding the printing ink used for paper containers)	Migration of elements:- - Antimony, arsenic, barium, cadmium, chromium, lead, mercury and selenium	Cl. 1.5.1 & Cl. 2.7 (1) ①, (2) & (3)
		Cl. 1.6 *Test Procedures for Compliance testing*:
Textile products used for toys	- Formaldehyde	Cl. 1.6 & Cl. 2.8 ***<Excluding the following>*** Confirmation test by HPLC

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Chemical tests :- (cont'd)	
		Japan Toy Safety Standard ST 2016 Fourth Edition (2022.10.4) Part 3
		Cl. 1.8 *Test Procedures for Compliance testing*:
Toys that employ ink and the like used for graphic instruments	- Colouring matters	Cl. 1.8.1 & Cl. 2.1
	Migration of elements:- - Antimony, arsenic, barium, cadmium, chromium, lead, mercury and selenium	Cl. 1.8.2 & Cl. 2.7 (1) ②, (2) & (3)
		Cl. 1.9 ***<Excluding the following>*** Cl. 1.9.3 *Test Procedures for Compliance testing*:
Plasticized material in toys (polyvinyl chloride, polyurethane and rubber)	- Bis (2-ethylhexyl) phthalate (DEHP) - Dibutyl phthalate (DBP) - Butyl benzyl phthalate (BBP) - Di-isononyl phthalate (DINP) - Di-isodecyl phthalate (DIDP) - Di-n-octyl phthalate (DNOP)	Cl. 2.10 ***<Excluding the following>*** Characterization & content determination tests by GC-FID
		Cl. 1.10 *Test Procedures for Compliance testing*:
Rubber pacifiers	Materials test: - Cadmium and lead	Cl. 2.11.1
	Elution test: - - Phenol - Formaldehyde - Zinc - Heavy metals - Residue after evaporation	Cl. 2.11.2
		Cl. 1.11 *Test Procedures for Compliance testing*:
Metals used for toy (neither painted nor covered)	- Lead	Cl. 2.12 & 2.7 (2) & (3)

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	- Chemical tests (cont'd):-	Specifications and Standards for Foods, Food Additives, etc. Under the Food Sanitation Law (ABSTRACTS) JETRO April 2011, Part V "TOYS" *Test procedures for compliance testing:* Specifications, Standards and Testing Methods for Foodstuffs, Implements, Containers and Packaging, Toys, Detergents, JETRO January 2009 (based on the tentative English translation published by JETRO, January 2009) Part III – Standards and Testing for Toys
Decals stickers	- Heavy metals - Arsenic	A-1
Origami paper	- Heavy metals - Arsenic	A-2
Rubber pacifiers	- Lead and Cadmium content - Heavy metals - Zinc - Formaldehyde - Phenol - Residue on evaporation	A-3 and Part II Section D Cl. 3 item (2) Rubber pacifier and artificial nipples
Coating of toys	- Cadmium, lead and Arsenic	A-4
Coating which contains polyvinyl chloride	- Potassium permanganate consumption - Evaporation residue	A-5
Parts which are made from polyvinyl chloride, not including the coatings	- Potassium permanganate consumption - Heavy metals - Cadmium - Evaporation residue - Arsenic	A-6

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	- Chemical tests (cont'd):-	Specifications and Standards for Foods, Food Additives, etc. Under the Food Sanitation Law (ABSTRACTS) JETRO April 2011, Part V "TOYS" *Test procedures for compliance testing:* Specifications, Standards and Testing Methods for Foodstuffs, Implements, Containers and Packaging, Toys, Detergents, JETRO January 2009 (based on the tentative English translation published by JETRO, January 2009) Part III – Standards and Testing for Toys (cont'd)
Plasticized material in toys (polyvinyl chloride, polyurethane and Rubber)	- Bis(2-ethylhexyl) phthalate - Dibutyl Phthalate - Butyl benzyl phthalate - Di-isononyl phthalate - Di-isodecyl phthalate - Di-n-octyl phthalate	A-7 and A-8 *Test procedures for compliance testing:* Japan Toy Safety Standard ST 2016 Fourth Edition (2022.10.4) Part 3 Cl. 2.10
Parts which are made from polyethylene, not including coatings	- Potassium permanganate consumption - Heavy metals - Evaporation residue - Arsenic	A-9
Metal jewelry toys, those with probability for infants or preschool children to swallow it.	- Soluble Lead	A-10
Manufacturing standards of toy	- Colouring agents	B-1

SGS Hong Kong Limited
香港通用檢測認證有限公司

1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Electrical tests :-	
Battery operated toys	- Safety tests	AS/NZS ISO 8124.1: 2002 + Amd.1 + Amd.2 Annex A ASTM F963-23 Section 4.25 < ***Excluding the following*** > 4.25.9 ASTM F963-17 Section 4.25 < ***Excluding the following*** > 4.25.10
Electric toys supplied at extra-low voltage	- Compliance inspection and safety tests	SNI IEC 62115: 2011 < ***Excluding the following*** > Cl. 11.1 (water resistance tests to IEC 60529), 16 (component tests to other standards), 19.2 (burning tests to IEC 60695-11-10 and ISO 9772), 20 (radiation tests); Annex C and E IEC 62115: 2017 AS/NZS 62115: 2018 + A1: 2021 BS EN IEC 62115: 2020 + A11: 2020 EN IEC 62115: 2020 + A11: 2020 < ***Excluding the following*** > for the above four standards Cl. 7.5, 9 (test to Annex D), 11 (water resistance tests to IEC 60529), 13.8, 13.10, 18.2 (burning tests to IEC 60695-11-10 and ISO 9772), 19.3, 19.E.2.1 (radiation tests for LED with wavelength λ>1000 nm) 19.E.3, Annex C, D, I and J

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Electrical tests :- 電性能測試 :-	
Electric toys	- Compliance inspection and safety tests	GB 6675.1-2014 Cl. 5.4 and GB 19865-2005 + Amendment 1 < ***Excluding the following*** > Cl. 11.1 (water resistance tests to other standard), 19.2 (burning tests to other standards), 20 (radiation tests), Annexes C and E
電玩具	- 安全測試	GB 6675.1-2014 Cl. 5.4 及 GB 19865-2005 + 第 1 號修改單 ***<不包含>*** Cl. 11.1 (按其他標準的防水測試), 19.2 (按其他標準的燃燒測試), 20 (輻射測試), 附錄 C 及 E

SGS Hong Kong Limited
香港通用檢測認證有限公司

1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Toys	Flammability tests :-	16 CFR Parts 1610 and 1500.44 ASTM F963-23 Section 4.2 ASTM F963-17 Section 4.2 BS EN 71-2: 2011 +A1: 2014 EN 71-2: 2011 +A1: 2014 ***<Excluding the following>*** for the above two standards Tests for flammable gases, flammable gels, flammable liquids, highly flammable liquids BS EN 71-2: 2020 EN 71-2: 2020 ***<Excluding the following>*** for the above two standards Tests for flammable gases, flammable gels, flammable liquids, highly flammable liquids, highly flammable solids SNI ISO 8124-2: 2010 AS/NZS 8124.2: 2023 ISO 8124-2: 2023 ***<Excluding the following>*** for the above three standards Tests for flammable gases, flammable gels, flammable liquids, highly flammable liquids, highly flammable solids AS/NZS 8124.2: 2016 ISO 8124-2: 2014 ***<Excluding the following>*** for the above two standards Tests for flammable gases, flammable gels, flammable liquids, highly flammable liquids

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Toys	Flammability tests :-	Japan Toy Safety Standard ST 2016 Fourth Edition (October 4, 2022) Part 2 (based on English version provided by JTA in December 3 2019 and translation of revision notice in October 4, 2022) **< *Excluding the following* >** Tests for flammable gases, flammable gels, flammable liquids, highly flammable liquids Japan Toy Safety Standard ST 2016 Second Edition (May 30, 2018) Part 2 (based on English version provided by JTA in June 2018) < ***Excluding the following*** > Tests for flammable gases, flammable gels, flammable liquids, highly flammable liquids
Toys	Flammability tests :- 燃燒性能測試 :-	GB 6675.1-2014 Cl. 5.2.1 and GB 6675.3-2014 **<*Excluding the following*>** Tests for flammable gases, flammable gels, flammable liquids, highly flammable liquids, highly flammable solids
玩具		GB 6675.1-2014 Cl. 5.2.1 及 GB 6675.3-2014 **<不包含>** 易燃氣體、易燃凝膠體、易燃液體、高度易燃液體、高度易燃固體的測試
Dolls, plush toys and soft toys	- Flammability of outer cover - Flammability of yarn - Flammability of hair or mane	Canada Toys Regulations (SOR/2011-17) (last amended on January 11 2019) 32 33 34

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Microbiological tests :-	
Aqueous liquids	- Total *Coliform* counts	APHA 22e 9221B (By MPN 5-tube Method)
	- Heterotrophic plate count (35°C)	APHA 22e 9215B (By Pour Plate Method)
Aqueous liquids and play dough	- Microbial enumeration test - Total Aerobic Microbial Count - Total Combined Yeasts and Molds Count	British Pharmacopoeia Volume V (2023) App. XVI B, B2 European Pharmacopoeia 11.0 edition (2023) Ch. 2.6.12 Japanese Pharmacopoeia Volume XVIII (2021), Ch. 4.05 United States Pharmacopeia – National Formulary (USP–NF) 2023 (20 Dec 2023), General Chapter <61>
	- Test for specified microorganisms - *Staphylococcus aureus* - *Escherichia coli* - *Pseudomonas aeruginosa* - *Clostridia* - *Candida albicans* - Bile-Tolerant Gram-Negative Bacteria - *Salmonella*	British Pharmacopoeia Volume V (2023) App. XVI, B1 European Pharmacopoeia 11.0 edition (2019) Ch. 2.6.13 Japanese Pharmacopoeia Volume XVIII (2021), Ch. 4.05 United States Pharmacopeia – National Formulary (USP–NF) 2023 (20 Dec 2023), General Chapter <62>
	Cleanliness of materials	ASTM F963-17 Cl. 4.3.6.3 and 8.4.1 ASTM F963-23 Cl. 4.3.6.3 and 8.4.1
Toy aqueous liquids and play dough	Test procedures for compliance testing:- - Microbial enumeration test - Total Aerobic Microbial Count - Total Combined Yeasts and Molds Count	United States Pharmacopeia – National Formulary (USP–NF) 2023 (20 Dec 2023), General Chapter <61>
	- Test for specified microorganisms - *Staphylococcus aureus* - *Escherichia coli* - *Pseudomonas aeruginosa* - *Clostridia* - *Candida albicans* - Bile-Tolerant Gram-Negative Bacteria - *Salmonella*	United States Pharmacopeia – National Formulary (USP–NF) 2023 (20 Dec 2023), General Chapter <62>

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Physical and mechanical tests :-	
Toys	- Safety requirements and test methods	AS/NZS ISO 8124-1: 2023 ISO 8124-1: 2022 **< *Excluding the following* >** For the above two standards Cl. 4.8.2, 4.15.2 (Wheeled ride-on toys), 4.18.4.1, 4.21, 4.22.3 and 4.26c) ISO 8124-1: 2018 + A1: 2020 + A2: 2020 **< *Excluding the following* >** Cl. 4.8.2, 4.15.2 (Wheeled ride-on toys), 4.18.4.1, 4.21, 4.22.3 and 4.26c) AS/NZS ISO 8124.1: 2002 + Amd. 1:2007 + Amd. 2:2009 **< *Excluding the following* >** Cl. 4.15.2 (Wheeled ride-on toys), 4.20, 4.21.3, 4.25c) and Annex F (toys with earphones or headphones) AS/NZS ISO 8124-1: 2019 + A1: 2020 + A2: 2020 **< *Excluding the following* >** Cl. 4.8.2, 4.15.2 (Wheeled ride-on toys), 4.18.4.1, 4.21, 4.22.3 and 4.26c) SNI ISO 8124-1: 2010 **< *Excluding the following* >** Cl. 4.15.2 (wheeled ride-on toys), 4.20, 4.21.3, 4.25c) and 4.29

SGS Hong Kong Limited
香港通用檢測認證有限公司

1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Physical and mechanical tests :- 機械及物理性能測試 :-	
Toys	- Safety requirements and test methods	GB 6675.1-2014 Cl. 5.1.1 to 5.1.8, 5.1.9a), 5.1.10, 5.1.11, 5.7 and GB 6675.2-2014 + Amendment 1 ***<Excluding the following>*** Cl. 4.15.2(Wheeled ride-on toys), 4.20, 4.21.3 and 4.25 c)
玩具	- 安全規定及測試方法	GB 6675.1-2014 Cl. 5.1.1 to 5.1.8, 5.1.9a), 5.1.10, 5.1.11, 5.7 及 GB 6675.2-2014 + 第 1 號修改單 ***<不包含>*** Cl. 4.15.2(有輪乘騎玩具), 4.20, 4.21.3 and 4.25 c)
Toys	- Safety requirements and test methods	Japan Toy Safety Standard ST 2016 Fourth Edition (October 4, 2022) Part 1 (based on English version provided by JTA in December 3, 2019 and translation of revision notice in October 4, 2022) ***< Excluding the following >*** Cl. 4.8.2, 4.15.2 (Wheeled ride-on toys), 4.15.4, 4.18.3.1, 4.22c) and 7 Japan Toy Safety Standard ST 2016 Second Edition (May 30, 2018) Part 1 (based on English version provided by JTA in June 2018) ***< Excluding the following >*** Cl. 4.8.2, 4.15.2 (Wheeled ride-on toys), 4.15.4, 4.18.3.1, 4.22c) and 7

SGS Hong Kong Limited
香港通用檢測認證有限公司

1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Physical and mechanical tests :-	
Toys	- Safety requirements and test methods	BS EN 71-1: 2014 + A1: 2018 EN 71-1: 2014 + A1: 2018 < ***Excluding the following*** > for the above two standards Cl. 4.11c), 4.11e), 4.15.1, 4.15.2, 4.15.5, 4.18 (test to EN 15649-3), 4.20.2.5 and 4.26
Toys	General Packaging Mechanical hazards Specific products	Canada Toys Regulations (SOR/2011-17) (last amended on January 11 2019) Section 3 Section 4 Section 7 to 18 Section 28 to 31, 37, 40 to 42 ***<Excluding the following>*** 29(c)
Kite strings	Identification of prohibited products	Canada Consumer Product Safety Act (S.C. 2010, c. 21) Schedule 2, item 9 (test to Cl. 4.13 of EN 71-1: 2011)

SGS Hong Kong Limited
香港通用檢測認證有限公司
1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Physical and mechanical tests :-	
Toys		ASTM F963-23
	Safety requirements	Section 4.1, 4.3.7, 4.5 to 4.24, 4.26 to 4.28, 4.30 to 4.41 < ***Excluding the following*** > Section 4.1 (examination of reprocessed materials), 4.6.2, 4.8.1, 4.15.6, 4.20.1
	Labeling requirements	Section 5
	Instructional literature	Section 6
	Producer's markings	Section 7
	Test methods	Section 8
		ASTM F963-17
	Safety requirements	Section 4.1, 4.3.7, 4.5 to 4.24, 4.26 to 4.28, 4.30 to 4.41 < ***Excluding the following*** > Section 4.1 (examination of reprocessed materials), 4.6.2, 4.8.1, 4.15.6, 4.20.1
	Labeling requirements	Section 5
	Instructional literature	Section 6
	Producer's markings	Section 7
	Test methods	Section 8

SGS Hong Kong Limited
香港通用檢測認證有限公司

1/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 25 號安滙中心一樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Physical and mechanical tests :-	
Children's products containing button batteries or coin cell batteries	- Safety requirements and test methods	16 CFR 1263 in conjunction with ANSI/UL 4200A-2023 ANSI/UL 4200A-2023
Toys	Safety tests	Federal Hazardous Substances Act Regulations 16 CFR 1500.48 16 CFR 1500.49 16 CFR 1500.50 16 CFR 1500.51 16 CFR 1500.52 16 CFR 1500.53 16 CFR 1501 16 CFR 1510 16 CFR 1511
Dive sticks	- Identification of banned toys	16 CFR 1500.18(a)(19) in conjunction with test methods specified in 16 CFR 1500.86(a)(7) or 16 CFR 1500.86(a)(8)
Projectile toys	- Requirement for projectile toys	New South Wales Fair Trading Regulation 2007 Division 14 using relevant clauses of AS/NZS ISO 8124.1: 2002

SGS Hong Kong Limited
香港通用檢測認證有限公司
OGC Laboratory, Lung Hong Street, Area 38, Tuen Mun, New Territories, Hong Kong
香港新界屯門 38 區龍康街石化部化驗室

Miscellaneous 雜類		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Petroleum Products: -	
Jet A-1 fuel	- Appearance:	
	Visual inspection (free water and particulate contamination)	ASTM D4176-22 (Procedure 1)
	Colour	ASTM D156-23
	Particulate contamination	ASTM D5452-23
	- Composition:	
	Total acidity	ASTM D3242-23
	Total aromatic hydrocarbons	ASTM D6379-21e1
	Mercaptan sulphur	ASTM D3227-24
	Total sulphur	ASTM D4294-21
	- Volatility:	
	Distillation	ASTM D86-23ae1 (Automated Method)
	- Initial boiling point	
	- Fuel recovered	
	- 10% vol	
	- 50% vol	
	- 90% vol	
	- End point	
	- Residue	
	- Loss	
	- Flash point (Abel closed cup method)	IP 170/23 (Manual Method)
	- Flash point (Tag closed cup method)	ASTM D56-22 (Automated Method)
	- Density	ASTM D4052-22
	- Fluidity:	
	Freezing point	ASTM D2386-19 ASTM D7153-22ae1
	Viscosity at -20°C	ASTM D445-24
	- Combustion:	
	Net heat of combustion	ASTM D3338-20a (by calculation)
	Smoke point	ASTM D1322-24 (Manual Procedures)
	Naphthalenes	ASTM D1840-24

SGS Hong Kong Limited
香港通用檢測認證有限公司
OGC Laboratory, Lung Hong Street, Area 38, Tuen Mun, New Territories, Hong Kong
香港新界屯門 38 區龍康街石化部化驗室

Miscellaneous 雜類		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Petroleum Products: - (cont'd)	
Jet A-1 fuel	- Corrosion:	
	Corrosion, copper strip, classification max (2 hours at 100°C)	ASTM D130-19
	- Stability:	
	Thermal oxidation stability (JFTOT)	ASTM D3241-24 ***<excluding the following>*** Cl. 8, Annex A3 and A4
	- Contaminations:	
	Existing gum contents	IP 540/08 (Reapproved 2019) by Air
	Water separation characteristics	ASTM D3948-22 ASTM D7224-23
	- Incidential materials	
	Fatty Acid Methyl Esters (FAME)	ASTM D7797-23
	- Conductivity:	
	Electrical conductivity	ASTM D 2624-22

SGS Hong Kong Limited
香港通用檢測認證有限公司

Unit 2 and 3, G/F Block A, Po Lung Centre, 11 Wang Chiu Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣宏照道十一號寶隆中心 A 座地下 2 及 3 號室

Testing Required by the China Compulsory Certification System (CCC) 中國強制性產品認證制度規定的檢測

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Household and similar use appliances 家用和類似用途設備		
- Appliance for skin or hair care *(0709)* ***<Excluding the following>*** - Appliance having a degree of protection IP5X, IP6X, IPX3, IPX4, IPX5 or IPX6 - Appliance that is inserted into a socket outlet - Appliance having a device with an 'off position' obtained by electronic disconnection - Appliance having a device that can be placed in the standby-mode - Appliance incorporating a protective electronic circuit - Appliance having an accessible part which is separated from live parts by a protective impedance - Appliance using rubber parts as supplementary insulation - Appliance using protective coatings on printed circuit boards	All required tests as specified in CNCA-C07-01: 2024 - Safety tests - EMC tests	GB 4706.1-2005 GB 4706.15-2008 GB 4343.1-2018 GB 17625.1-2022
- 皮膚及毛髮護理器具 *（0709）* ***<不包括>*** - 外殼防護等級 IP5X、IP6X、IPX3、IPX4、IPX5 或 IPX6 的器具 - 插入輸出插座的器具 - 帶有通過電子斷開獲得斷開位置的開關的器具 - 帶有處於待機狀態開關的器具 - 裝有保護電子電路的器具 - 帶有通過保護阻抗與帶電部件隔開易觸及部件的器具 - 使用橡膠部件作為附加絕緣的器具 - 在印刷電路板使用保護塗層的器具	CNCA-C07-01: 2024 有關規定的所有檢測 - 安全檢測項目 - 電磁兼容檢測項目	GB 4706.1-2005 GB 4706.15-2008 GB 4343.1-2018 GB 17625.1-2022

SGS Hong Kong Limited
香港通用檢測認證有限公司
Unit 2 and 3, G/F Block A, Po Lung Centre, 11 Wang Chiu Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣宏照道十一號寶隆中心 A 座地下 2 及 3 號室

Testing Required by the China Compulsory Certification System (CCC) 中國強制性產品認證制度規定的檢測

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Household and similar use appliances 家用和類似用途設備		
- Electrical appliance for heating liquid *(0717)* ***<Excluding the following>***	All required tests as specified in CNCA-C07-01: 2024	
- Pressure cooker	- Safety tests	GB 4706.1-2005 GB 4706.19-2008
- Espresso coffee-maker		
- Appliance having a degree of protection IP5X, IP6X, IPX3, IPX4, IPX5 or IPX6		
- Appliance that is inserted into a socket outlet		
- Appliance having a device with an 'off position' obtained by electronic disconnection		
- Appliance having a device that can be placed in the standby-mode		
- Appliance incorporating a protective electronic circuit		
- Appliance having an accessible part which is separated from live parts by a protective impedance		
- Appliance using rubber parts as supplementary insulation		
- Appliance using protective coatings on printed circuit boards		
- 液體加熱器 *(0717)* ***<不包括>***	CNCA-C07-01: 2024 有關規定的所有檢測	
- 壓力鍋		
- 蒸汽壓力咖啡壺	- 安全檢測項目	GB 4706.1-2005 GB 4706.19-2008
- 外殼防護等級 IP5X、IP6X、IPX3、IPX4、IPX5 或 IPX6 的器具		
- 插入輸出插座的器具		
- 帶有通過電子斷開獲得斷開位置的開關的器具		
- 帶有處於待機狀態開關的器具		
- 裝有保護電子電路的器具		
- 帶有通過保護阻抗與帶電部件隔開易觸及部件的器具		
- 使用橡膠部件作為附加絕緣的器具		
- 在印刷電路板使用保護塗層的器具		

SGS Hong Kong Limited
香港通用檢測認證有限公司
Unit 2 and 3, G/F Block A, Po Lung Centre, 11 Wang Chiu Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣宏照道十一號寶隆中心 A 座地下 2 及 3 號室

Testing Required by the China Compulsory Certification System (CCC) 中國強制性產品認證制度規定的檢測

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Household and similar use appliances 家用和類似用途設備		
- Electric fan *(0702)* ***<Excluding the following>*** - Duct fan - Fan intended to be used in tropical climates - Appliance that is inserted into a socket outlet - Appliance having a device with an 'off position' obtained by electronic disconnection - Appliance having a device that can be placed in the standby-mode - Appliance incorporating a protective electronic circuit - Appliance having an accessible part which is separated from live parts by a protective impedance - Appliance using rubber parts as supplementary insulation - Appliance using protective coatings on printed circuit boards	All required tests as specified in CNCA-C07-01: 2024 - Safety tests - EMC tests	 GB 4706.1-2005 GB 4706.27-2008 GB 4343.1-2018 GB 17625.1-2022
- 電風扇（*0702*） ***<不包括>*** - 管道扇 - 在熱帶氣候下使用的風扇 - 插入輸出插座的器具 - 帶有通過電子斷開獲得斷開位置的開關的器具 - 帶有處於待機狀態開關的器具 - 裝有保護電子電路的器具 - 帶有通過保護阻抗與帶電部件隔開易觸及部件的器具 - 使用橡膠部件作為附加絕緣的器具 - 在印刷電路板使用保護塗層的器具	CNCA-C07-01: 2024 有關規定的所有檢測 - 安全檢測項目 - 電磁兼容檢測項目	 GB 4706.1-2005 GB 4706.27-2008 GB 4343.1-2018 GB 17625.1-2022

SGS Hong Kong Limited
香港通用檢測認證有限公司
Unit 2 and 3, G/F Block A, Po Lung Centre, 11 Wang Chiu Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣宏照道十一號寶隆中心 A 座地下 2 及 3 號室

Testing Required by the China Compulsory Certification System (CCC) 中國強制性產品認證制度規定的檢測

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Household and similar use appliances 家用和類似用途設備		
- Electrical food processor *(0713)* ***<Excluding the following>*** - Appliance having a degree of protection IP5X, IP6X, IPX3, IPX4, IPX5 or IPX6 - Appliance that is inserted into a socket outlet - Appliance having a device with an 'off position' obtained by electronic disconnection - Appliance having a device that can be placed in the standby-mode - Appliance incorporating a protective electronic circuit - Appliance having an accessible part which is separated from live parts by a protective impedance - Appliance using rubber parts as supplementary insulation - Appliance using protective coatings on printed circuit boards	All required tests as specified in CNCA-C07-01: 2024 - Safety tests	 GB 4706.1-2005 GB 4706.30-2008
-電動食品加工器具 *(0713)* ***<不包括>*** - 外殼防護等級 IP5X、IP6X、IPX3、IPX4、IPX5 或 IPX6 的器具 - 插入輸出插座的器具 - 帶有通過電子斷開獲得斷開位置的開關的器具 - 帶有處於待機狀態開關的器具 - 裝有保護電子電路的器具 - 帶有通過保護阻抗與帶電部件隔開易觸及部件的器具 - 使用橡膠部件作為附加絕緣的器具 - 在印刷電路板使用保護塗層的器具	CNCA-C07-01: 2024 有關規定的所有檢測 - 安全檢測項目	 GB 4706.1-2005 GB 4706.30-2008

SGS Hong Kong Limited
香港通用檢測認證有限公司
Unit 2 and 3, G/F Block A, Po Lung Centre, 11 Wang Chiu Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣宏照道十一號寶隆中心A座地下2及3號室

Testing Required by the China Compulsory Certification System (CCC) 中國強制性產品認證制度規定的檢測

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Household and similar use appliances 家用和類似用途設備		
- Oven (grill, toaster and similar portable cooking appliance) *(0712)* ***<Excluding the following>***	All required tests as specified in CNCA-C07-01: 2024	
- Appliance having a degree of protection IP5X, IP6X, IPX3, IPX4, IPX5 or IPX6 - Appliance intended for outdoor use - Appliance having a device with an 'off position' obtained by electronic disconnection - Appliance having a device that can be placed in the standby-mode - Appliance incorporating a protective electronic circuit - Appliance having an accessible part which is separated from live parts by a protective impedance - Appliance using rubber parts as supplementary insulation - Appliance using protective coatings on printed circuit boards	- Safety tests	GB 4706.1-2005 GB 4706.14-2008
- 電烤箱（便攜式烤架、面包片烘烤器及類似烹調器具）*(0712)* ***<不包括>***	CNCA-C07-01: 2024 有關規定的所有檢測	
- 外殼防護等級IP5X、IP6X、IPX3、IPX4、IPX5或IPX6的器具 - 在室外適用的器具 - 帶有通過電子斷開獲得斷開位置的開關的器具 - 帶有處於待機狀態開關的器具 - 裝有保護電子電路的器具 - 帶有通過保護阻抗與帶電部件隔開易觸及部件的器具 - 使用橡膠部件作為附加絕緣的器具 - 在印刷電路板使用保護塗層的器具	- 安全檢測項目	GB 4706.1-2005 GB 4706.14-2008

SGS Hong Kong Limited
香港通用檢測認證有限公司
Unit 2 and 3, G/F Block A, Po Lung Centre, 11 Wang Chiu Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣宏照道十一號寶隆中心 A 座地下 2 及 3 號室

Testing Required by the China Compulsory Certification System (CCC) 中國強制性產品認證制度規定的檢測

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Household and similar use appliances 家用和類似用途設備		
- Rice cooker *(0718)* ***<Excluding the following>*** - Appliance having a degree of protection IP5X, IP6X, IPX3, IPX4, IPX5 or IPX6 - Appliance having a device with an 'off position' obtained by electronic disconnection - Appliance having a device that can be placed in the standby-mode - Appliance incorporating a protective electronic circuit - Appliance having an accessible part which is separated from live parts by a protective impedance - Appliance using rubber parts as supplementary insulation - Appliance using protective coatings on printed circuit boards	All required tests as specified in CNCA-C07-01: 2024 - Safety tests - EMC tests	 GB 4706.1-2005 GB 4706.19-2008 GB 4343.1-2018 GB 17625.1-2022
- 電飯鍋 *(0718)* ***<不包括>*** - 外殼防護等級 IP5X、IP6X、IPX3、IPX4、IPX5 或 IPX6 的器具 - 帶有通過電子斷開獲得斷開位置的開關的器具 - 帶有處於待機狀態開關的器具 - 裝有保護電子電路的器具 - 帶有通過保護阻抗與帶電部件隔開易觸及部件的器具 - 使用橡膠部件作為附加絕緣的器具 - 在印刷電路板使用保護塗層的器具	CNCA-C07-01: 2024 有關規定的所有檢測 - 安全檢測項目 - 電磁兼容檢測項目	 GB 4706.1-2005 GB 4706.19-2008 GB 4343.1-2018 GB 17625.1-2022

SGS Hong Kong Limited
香港通用檢測認證有限公司
Unit 2 and 3, G/F Block A, Po Lung Centre, 11 Wang Chiu Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣宏照道十一號寶隆中心 A 座地下 2 及 3 號室

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	EMC tests:- Emission tests	
Unintentional radiator	- Measurement of radiated emission 9 kHz to 40 GHz - Measurement of conducted emission 150 kHz to 30 MHz	47 CFR Part 15 Subpart A and Subpart B using test-methods specified in ANSI C63.4-2014
Intentional radiator	- Measurement of radiated emission 9 kHz to 40 GHz - Measurement of conducted emission 150 kHz to 30 MHz	47 CFR Part 15 Subpart A and Subpart C using test-methods specified in ANSI C63.10-2013
Unlicensed national information infrastructure device without dynamic frequency selection	- Measurement of radiated emission 9 kHz to 40 GHz - Measurement of conducted emission 150 kHz to 30 MHz	47 CFR Part 15 Subpart A and Subpart E using test-methods specified in ANSI C63.10-2013
Unlicensed national information infrastructure device with dynamic frequency selection	- Measurement of radiated emission - 9 kHz to 40 GHz - Measurement of conducted emission - 150 kHz to 30 MHz	47 CFR Part 15 Subpart A and E using test methods specified in FCC KDB Publication 905462 D02 UNII DFS Compliance Procedures New Rules v02
Consumer ISM equipment	- Measurement of radiated emission 9 kHz to 40 GHz - Measurement of conducted emission 150 kHz to 30 MHz	47 CFR Part 18 using test-methods specified in FCC/OET MP-5: 1986

SGS Hong Kong Limited
香港通用檢測認證有限公司
Unit 2 and 3, G/F Block A, Po Lung Centre, 11 Wang Chiu Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣宏照道十一號寶隆中心 A 座地下 2 及 3 號室

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	EMC tests:- Emission tests	
Licence-exempt radio apparatus: category I equipment	- Measurement of radiated emission 9 kHz to 40 GHz - Measurement of conducted emission 150 kHz to 30 MHz - Measurement of conducted emission at antenna terminal 9 kHz to 40 GHz	RSS-210 Issue 10, December 2019 + Amendment (April 2020) in conjunction with RSS-Gen Issue 5, April 2018 + Amendment 1 (March 2019) + Amendment 2 (February 2021) using test methods specified in ANSI C63.10: 2013
Digital transmission system, frequency hopping system and licence-exempt local area network device with dynamic frequency selection	- Measurement of radiated emission 9 kHz to 40 GHz - Measurement of conducted emission 150 kHz to 30 MHz - Measurement of conducted emission at antenna terminal 9 kHz to 40 GHz	RSS-247 Issue 3, August 2023 in conjunction with RSS-Gen Issue 5, April 2018 + Amendment 1 (March 2019) + Amendment 2 (February 2021) using test methods specified in ANSI C63.10: 2013
Radio Local Area Network (RLAN) devices operating in the 5925-7125 MHz band	- Measurement of radiated emission 9 kHz to 40 GHz - Measurement of conducted emission 150 kHz to 30 MHz - Measurement of conducted emission at antenna terminal 9 kHz to 40 GHz	RSS-248 Issue 2, December 2022 in conjunction with RSS-Gen Issue 5, April 2018 + Amendment 1 (March 2019) + Amendment 2 (February 2021) using test methods specified in ANSI C63.10: 2013

SGS Hong Kong Limited
香港通用檢測認證有限公司
Unit 2 and 3, G/F Block A, Po Lung Centre, 11 Wang Chiu Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣宏照道十一號寶隆中心 A 座地下 2 及 3 號室

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	EMC tests:- 電磁兼容測試 Emission tests 發射測試	
Audio, video and similar electronic apparatus - Active single or multiple speaker system with output power not exceeding 500 W - Audio power amplifier - Power adapter for audio and video apparatus	- Measurement of terminal disturbance voltages - 150 kHz to 30 MHz - Measurement of disturbance power - 30 MHz to 300 MHz - Measurement of radiated disturbances - 30 MHz to 1 GHz	GB 13837-2012
音頻、視頻及類似電子設備 - 總輸出功率在 500 W（有效值）以下的單揚聲器和多揚聲器有源音箱 - 音頻功率放大器 - 音視頻設備配套的電源適配器	- 端子騷擾電壓測量 - 150 kHz 至 30 MHz - 騷擾功率測量 - 30 MHz 至 300 MHz - 輻射騷擾測量 - 30 MHz 至 1 GHz	GB 13837-2012
Household appliance - Appliance for skin or hair care - Electric fan - Vacuum cleaner - Rice cooker	- Measurement of terminal disturbance voltages - 9 kHz to 30 MHz - Measurement of disturbance power - 30 MHz to 300 MHz - Measurement of radiated disturbances - 30 MHz to 1 GHz	GB 4343.1-2018
家用電器 - 皮膚及毛髮護理器具 - 電風扇 - 真空吸塵器 - 電飯鍋	- 端子騷擾電壓測量 - 9 kHz 至 30 MHz - 騷擾功率測量 - 30 MHz 至 300 MHz - 輻射騷擾測量 - 30 MHz 至 1 GHz	GB 4343.1-2018

SGS Hong Kong Limited
香港通用檢測認證有限公司
Unit 2 and 3, G/F Block A, Po Lung Centre, 11 Wang Chiu Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣宏照道十一號寶隆中心 A 座地下 2 及 3 號室

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	EMC tests:- 電磁兼容測試 Emission tests 發射測試	
Electrical and electronic equipment ***< Excluding the following >*** - three phase equipment - arc welding equipment - air conditioner - washing machine - professional equipment	- Harmonic current measurement	GB 17625.1-2022 ***< Excluding the following >*** Cl. 4 (professional equipment), C.8, C.12, C.14
電氣和電子設備 ***<不包括>*** - 三相設備 - 電弧焊設備 - 空調器 - 洗衣機 - 專用設備	- 諧波電流測量	GB 17625.1-2022 ***<不包括>*** Cl. 4 (專用設備), C.8, C.12, C.14

SGS Hong Kong Limited
香港通用檢測認證有限公司
Unit 2 and 3, G/F Block A, Po Lung Centre, 11 Wang Chiu Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣宏照道十一號寶隆中心 A 座地下 2 及 3 號室

Electrical and Electronic Products 電氣及電子產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	EMC tests:- Emission tests	
Household appliances, electric tools and similar apparatus, single phase	- Measurement of terminal disturbance voltage - 9 kHz to 30 MHz - Measurement of disturbance power - 30 MHz to 300 MHz	AS CISPR 14.1: 2018 CISPR 14-1: 2020 EN IEC 55014-1: 2021 ***<Excluding the following>*** for the above three standards Cl. A.1.9, A.1.10, A.1.11, A.1.12, A.1.13, A.1.20
Industrial, scientific and medical radio-frequency equipment	- Measurement of terminal disturbance voltages - 9 kHz to 30 MHz - Measurement of radiated disturbances - 9 kHz to 18 GHz	CISPR 11: 2015 + A1: 2016 + A2: 2019 ***< Excluding the following >*** Cl. 7.6.2.1
Sound and television broadcast receivers and associated equipment - sound broadcast receiver - audio/video player with a signal source from storage media connector, docking connector or aux input - audio tape player/recorder - record player - laser disc player - audio amplifier - combination of the above equipment	- Measurement of terminal disturbance voltage 150 kHz to 30 MHz - Measurement of disturbance power 30 MHz to 300 MHz - Measurement of radiated disturbances 30 MHz to 1000 MHz - Measurement of disturbance voltage at antenna terminals 30 MHz to 2150 GHz	AS/NZS CISPR 13: 2012 CISPR 13: 2009 EN 55013: 2013 ***<Excluding the following>*** for the above three standards Cl. 5.5, 5.8 and 5.9, Annex A

SGS Hong Kong Limited
香港通用檢測認證有限公司
Unit 2 and 3, G/F Block A, Po Lung Centre, 11 Wang Chiu Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣宏照道十一號寶隆中心 A 座地下 2 及 3 號室

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Safety tests :-	
Audio, video and similar electronic apparatus	Compliance inspection and safety tests	EN 60065: 2014 **< *Excluding the following* >** Cl. 6, 7.2, 8.21, 9.1.1.2d), 10.4 (dielectric strength test higher than 5 kV peak), 12.1.2, 12.1.3, 16.3, 18, 19.6.2, Z1, Annex H, K and L IEC 60065: 2014 **< *Excluding the following* >** Cl. 6, 7.2, 8.21, 9.1.1.2d), 10.4 (dielectric strength test higher than 5 kV peak), 12.1.2, 12.1.3, 16.3, 18, 19.6.2, Annex H, K and L

SGS Hong Kong Limited
香港通用檢測認證有限公司
Unit 2 and 3, G/F Block A, Po Lung Centre, 11 Wang Chiu Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣宏照道十一號寶隆中心 A 座地下 2 及 3 號室

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Household electrical appliances with rated voltage up to 250 V	Safety tests :-	
- General requirements	- Compliance inspection and safety tests	BS EN 60335-1: 2012 + A11: 2014 EN 60335-1: 2012 + A11: 2014 **< *Excluding the following* >** for the above two standards Cl. 8.1.4 (discharge energy measurement), 15.1 (tests for IPX3 to IPX6), 19.11.4, 22.1 (tests for IP5X and IP6X), 22.32 (oxygen bomb test), 22.46, 25.25, 30.2.3 (burning tests to IEC 60695-11-10), 32 (measurement of EMF according to EN 50366 or EN 62233); Annex J and R IEC 60335-1: 2010 + A1: 2013 + A2: 2016 **< *Excluding the following* >** Cl. 8.1.4 (discharge energy measurement), 15.1 (tests for IPX3 to IPX6), 19.11.4, 22.1 (tests for IP5X and IP6X), 22.32 (oxygen bomb test), 22.46, 22.57, 25.25, 30.2.3 (burning tests to IEC 60695-11-10); Annex J, R and T (Note: The above Part 1 standard should be used in conjunction with specific product standard as detailed in the relevant Part 2 of BS EN 60335, EN 60335 or IEC 60335)

SGS Hong Kong Limited
香港通用檢測認證有限公司
Unit 2 and 3, G/F Block A, Po Lung Centre, 11 Wang Chiu Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣宏照道十一號寶隆中心 A 座地下 2 及 3 號室

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Household electrical appliances with rated voltage up to 250 V 額定電壓不高於 250 V 的家用電器	Safety tests :- 安全測試	
- General requirements	- Compliance inspection and safety test	GB 4706.1-2005 ***<Excluding the following>*** Cl. 8.1.4 (discharge energy measurement), 15.1 (tests for IPX3 to IPX6), 19.11.4, 22.1 (tests for IP5X and IP6X), 22.32 (oxygen bomb test), 22.46, 25.25, 30.2.3 (burning tests to GB/T 5169.16), Annex J and R (Note: The above standard should be used in conjunction with the product test standards as detailed in relevant Part 2 of GB 4706)
- 通用要求	- 安全測試	GB 4706.1-2005 ***<不包括>*** Cl .8.1.4 (放電量測量), 15.1 (IPX3 至 IPX6 測試), 19.11.4, 22.1 (IP5X 及 IP6X 測試), 22.32 (氧氣罐測試), 22.46, 25.25, 30.2.3 (按 GB/T 5169.16 的燃燒測試), 附錄 J 及 R (備注：上述標準應配合相關的 GB 4706 第 2 部分詳細要求使用)

SGS Hong Kong Limited
香港通用檢測認證有限公司
Unit 2 and 3, G/F Block A, Po Lung Centre, 11 Wang Chiu Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣宏照道十一號寶隆中心 A 座地下 2 及 3 號室

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Household electrical appliances with rated voltage up to 250 V	Safety tests :-	
- Appliance for heating liquid	- Compliance inspection and safety tests	BS EN 60335-2-15: 2002 + A11: 2012 EN 60335-2-15: 2002 + A11: 2012 **< *Excluding the following* >** for the above two standards Cl. 8.1.4 (discharge energy measurement), 15.1 (tests for IPX3 to IPX6), 19.11.4, 19.13 (tests for pressure cooker), 22.1 (tests for IP5X and IP6X), 22.7 (tests for pressure cooker and espresso coffee maker), 22.32 (oxygen bomb test), 22.46, 22.106, 22.107, 22.108, 22.109, 22.111, 25.25, 30.2.3 (burning tests to IEC 60695-11-10), 32 (measurement of EMF according to EN 50366 or EN 62233); Annex J and R IEC 60335-2-15: 2012 + A1: 2016 + A2: 2018 **< *Excluding the following* >** Cl. 8.1.4 (discharge energy measurement), 15.1 (tests for IPX3 to IPX6), 19.11.4, 19.13 (tests for pressure cooker), 22.1 (tests for IP5X and IP6X), 22.7 (tests for pressure cooker and espresso coffee maker), 22.32 (oxygen bomb test), 22.46, 22.57 22.106, 22.107, 22.108, 22.109, 22.111, 25.25, 30.2.3 (burning tests to IEC 60695-11-10), Annex J, R and T

SGS Hong Kong Limited
香港通用檢測認證有限公司
Unit 2 and 3, G/F Block A, Po Lung Centre, 11 Wang Chiu Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣宏照道十一號寶隆中心 A 座地下 2 及 3 號室

Electrical and Electronic Products 電氣及電子產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Household electrical appliances with rated voltage up to 250 V	Safety tests :-	
- Appliance for skin or hair care	- Compliance inspection and safety tests	BS EN 60335-2-23: 2003 +A2: 2015 EN 60335-2-23: 2003 + A2: 2015 **< *Excluding the following* >** for the above two standards Cl. 8.1.4 (discharge energy measurement), 15.1 (tests for IPX3 to IPX6), 19.11.4, 22.1 (tests for IP5X and IP6X), 22.32 (oxygen bomb test), 22.46, 25.25, 30.2.3 (burning tests to IEC 60695-11-10), 32 (measurement of EMF according to EN 50366 or EN 62233); Annex J and R IEC 60335-2-23: 2016 + A1: 2019 **< *Excluding the following* >** Cl. 8.1.4 (discharge energy measurement), 15.1 (tests for IPX3 to IPX6), 19.11.4, 22.1 (tests for IP5X and IP6X), 22.32 (oxygen bomb test), 22.46, 22.57, 25.25, 30.2.3 (burning tests to IEC 60695-11-10); Annex J, R and T

SGS Hong Kong Limited
香港通用檢測認證有限公司
Unit 2 and 3, G/F Block A, Po Lung Centre, 11 Wang Chiu Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣宏照道十一號寶隆中心 A 座地下 2 及 3 號室

Electrical and Electronic Products 電氣及電子產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Household electrical appliances with rated voltage up to 250 V 額定電壓不高於 250 V 的家用電器	Safety tests :- 安全測試	
- Appliance for skin or hair care	- Compliance inspection and safety tests	GB 4706.15-2008 ***<Excluding the following>*** Cl. 8.1.4 (discharge energy measurement), 15.1 (tests for IPX3 to IPX6), 19.11.4, 22.1 (tests for IP5X and IP6X), 22.32 (oxygen bomb test), 22.46, 25.25, 30.2.3 (burning tests to GB/T 5169.16), Annex J and R
皮膚及毛髮護理器具	- 安全測試	GB 4706.15-2008 ***<不包括>*** Cl. 8.1.4 (放電量測量), 15.1 (IPX3 至 IPX6 測試), 19.11.4 22.1 (IP5X 及 IP6X 測試), 22.32 (氧氣罐測試), 22.46, 25.25, 30.2.3 (按 GB/T 5169.16 的燃燒測試), 附錄 J 及 R

SGS Hong Kong Limited
香港通用檢測認證有限公司
Unit 2 and 3, G/F Block A, Po Lung Centre, 11 Wang Chiu Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣宏照道十一號寶隆中心 A 座地下 2 及 3 號室

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Household electrical appliances with rated voltage up to 250 V	Safety tests :-	
- Battery charger	- Compliance inspection and safety tests	BS EN 60335-2-29: 2004 + A2: 2010 EN 60335-2-29: 2004 + A2: 2010 **< *Excluding the following* >** for the above two standards Cl. 8.1.4 (discharge energy measurement), 15.1 (tests for IPX3 to IPX6), 19.11.4, 22.1 (tests for IP5X and IP6X), 22.32 (oxygen bomb test), 22.46, 25.25, 30.2.3 (burning tests to IEC 60695-11-10), 32 (measurement of EMF according to EN 50366 or EN 62233); Annex J and R IEC 60335-2-29: 2016 **< *Excluding the following* >** Cl. 8.1.4 (discharge energy measurement), 15.1 (tests for IPX3 to IPX6), 19.11.4, 22.1 (tests for IP5X and IP6X), 22.32 (oxygen bomb test), 22.46, 22.57, 25.25, 30.2.3 (burning tests to IEC 60695-11-10); Annex J, R and T

SGS Hong Kong Limited
香港通用檢測認證有限公司
Unit 2 and 3, G/F Block A, Po Lung Centre, 11 Wang Chiu Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣宏照道十一號寶隆中心 A 座地下 2 及 3 號室

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Household electrical appliances with rated voltage up to 250 V	Safety tests :-	
- Deep fat fryer, frying pan and similar appliance	- Compliance inspection and safety tests	BS EN 60335-2-13: 2010 + A11: 2012 EN 60335-2-13: 2010 + A11: 2012 **< *Excluding the following* >** for the above two standards Cl. 8.1.4 (discharge energy measurement), 15.1 (tests for IPX3 to IPX6), 19.11.4, 22.1 (tests for IP5X and IP6X), 22.32 (oxygen bomb test), 22.46, 25.25, 30.2.3 (burning tests to IEC 60695-11-10), 32 (measurement of EMF according to EN 50366 or EN 62233); Annex J and R IEC 60335-2-13: 2009 + A1: 2016 **< *Excluding the following* >** Cl. 8.1.4 (discharge energy measurement), 15.1 (tests for IPX3 to IPX6), 19.11.4, 22.1 (tests for IP5X and IP6X), 22.32 (oxygen bomb test), 22.46, 22.57, 25.25, 30.2.3 (burning tests to IEC 60695-11-10); Annex J, R and T

SGS Hong Kong Limited
香港通用檢測認證有限公司
Unit 2 and 3, G/F Block A, Po Lung Centre, 11 Wang Chiu Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣宏照道十一號寶隆中心 A 座地下 2 及 3 號室

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Household electrical appliances with rated voltage up to 250 V	Safety tests :-	
- Electric fan	- Compliance inspection and safety tests	BS EN 60335-2-80: 2003 + A2: 2009 EN 60335-2-80: 2003 + A2: 2009 **< *Excluding the following* >** for the above two standards Cl. 3.1.9 (tests for a duct fan), 5.7 (tests for a fan to be used in tropical climates), 8.1.4 (discharge energy measurement), 15.1 (tests for IPX3 to IPX6), 19.11.4, 19.101, 20.101 (test for hardness of fan blades), 22.1 (tests for IP5X and IP6X), 22.32 (oxygen bomb test), 22.46, 25.25, 30.2.3 (burning tests to IEC 60695-11-10), 32 (measurement of EMF according to EN 50366 or EN 62233); Annex J and R IEC 60335-2-80: 2002 + A1: 2004 + A2: 2008 **< *Excluding the following* >** Cl. 3.1.9 (tests for a duct fan), 5.7 (tests for a fan to be used in tropical climates), 8.1.4 (discharge energy measurement), 15.1 (tests for IPX3 to IPX6), 19.11.4, 19.101, 20.101 (test for hardness of a fan blade), 22.1 (tests for IP5X and IP6X), 22.32 (oxygen bomb test), 22.46, 22.57, 25.25, 30.2.3 (burning tests to IEC 60695-11-10); Annex J, R and T

SGS Hong Kong Limited
香港通用檢測認證有限公司
Unit 2 and 3, G/F Block A, Po Lung Centre, 11 Wang Chiu Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣宏照道十一號寶隆中心 A 座地下 2 及 3 號室

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Household electrical appliances with rated voltage up to 250 V 額定電壓不高於 250 V 的家用電器	Safety tests :- 安全測試	
- Electric fan	- Compliance inspection and safety test	GB 4706.27-2008 ***<Excluding the following>*** Cl. 3.1.9 (tests for a duct fan), 5.7 (tests for a fan to be used in tropical climates), 8.1.4 (discharge energy measurement), 15.1 (tests for IPX3 to IPX), 19.11.4, 19.101, 20.101 (test for hardness of a fan blade), 22.1 (tests for IP5X and IP6X), 22.32 (oxygen bomb test), 22.46, 25.25, 30.2.3 (burning tests to GB/T 5169.16), Annex J and R
- 電風扇	- 安全測試	GB 4706.27-2008 ***<不包括>*** Cl. 3.1.9 (管道風扇的測試), 5.7 (熱帶氣候風扇的測試), 8.1.4 (放電量測量), 15.1 (IPX3 至 IPX6 測試), 19.11.4, 19.101, 22.1 (IP5X 及 IP6X 測試), 22.101 (扇葉硬度測試), 22.32 (氧氣罐測試), 22.46, 25.25, 30.2.3 (按 GB/T 5169.16 的燃燒測試); 附錄 J 及 R

SGS Hong Kong Limited
香港通用檢測認證有限公司
Unit 2 and 3, G/F Block A, Po Lung Centre, 11 Wang Chiu Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣宏照道十一號寶隆中心 A 座地下 2 及 3 號室

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Household electrical appliances with rated voltage up to 250 V	Safety tests :-	
- Grills, toasters and similar portable cooking appliances	- Compliance inspection and safety tests	BS EN 60335-2-9: 2003 + A13: 2010 EN 60335-2-9: 2003 + A13: 2010 **< *Excluding the following* >** for the above two standards Cl. 8.1.4 (discharge energy measurement), 15.1 (tests for IPX3 to IPX6), 19.11.4, 22.1 (tests for IP5X and IP6X), 22.32 (oxygen bomb test), 22.46, 25.25, 30.2.3 (burning tests to IEC 60695-11-10), 31 (salt mist test to IEC 60068-2-52), 32 (measurement of EMF according to EN 50366 or EN 62233); Annex J and R IEC 60335-2-9: 2008 + A1: 2012 + A2: 2016 **< *Excluding the following* >** Cl. 8.1.4 (discharge energy measurement), 15.1 (tests for IPX3 to IPX6), 19.11.4, 22.1 (tests for IP5X and IP6X), 22.32 (oxygen bomb test), 22.46, 22.57, 25.25, 30.2.3 (burning tests to IEC 60695-11-10), 31 (salt mist test to IEC 60068-2-52); Annex J, R and T

SGS Hong Kong Limited
香港通用檢測認證有限公司
Unit 2 and 3, G/F Block A, Po Lung Centre, 11 Wang Chiu Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣宏照道十一號寶隆中心 A 座地下 2 及 3 號室

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Household electrical appliances with rated voltage up to 250 V 額定電壓不高於 250 V 的家用電器	Safety tests :- 安全測試	
- Oven	- Compliance inspection and safety test	GB 4706.14-2008 ***<Excluding the following>*** Cl. 8.1.4 (discharge energy measurement), 15.1 (tests for IPX3 to IPX6), 19.11.4, 22.1 (tests for IP5X and IP6X), 22.32 (oxygen bomb test), 22.46, 25.25, 30.2.3 (burning tests to GB/T 5169.16), 31 (salt mist test to GB/T 2423.18), Annex J and R
- 廚房器具	- 安全測試	GB 4706.14-2008 ***<不包括>*** Cl. 8.1.4 (放電量測量), 15.1 (IPX3 至 IPX6 測試), 19.11.4 22.1 (IP5X 及 IP6X 測試), 22.32 (氧氣罐測試), 22.46, 25.25, 30.2.3 (按 GB/T 5169.16 的燃燒測試), 31 (按 GB/T 2423.18 的鹽霧測試) 附錄 J 及 R

SGS Hong Kong Limited
香港通用檢測認證有限公司
Unit 2 and 3, G/F Block A, Po Lung Centre, 11 Wang Chiu Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣宏照道十一號寶隆中心 A 座地下 2 及 3 號室

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Safety tests :-	
Household electrical appliances with rated voltage up to 250 V		
- Humidifier	- Compliance inspection and safety tests	BS EN 60335-2-98: 2003 + A2: 2008 EN 60335-2-98: 2003 + A2: 2008 **< *Excluding the following* >** for the above two standards Cl. 8.1.4 (discharge energy measurement), 13.2 (test for electrode-type appliance), 15.1 (tests for IPX3 to IPX6), 19.2, 19.11.4, 22.1 (tests for IP5X and IP6X), 22.32 (oxygen bomb test), 22.46, 22.103, 22.104, 25.25, 30.2.3 (burning tests to IEC 60695-11-10), 32 (measurement of EMF according to EN 50366 or EN 62233), Annex J and R IEC 60335-2-98: 2002 + A1: 2004 + A2: 2008 **< *Excluding the following* >** Cl. 8.1.4 (discharge energy measurement), 13.2 (test for electrode-type appliance), 15.1 (tests for IPX3 to IPX6), 19.2, 19.11.4, 22.1 (tests for IP5X and IP6X), 22.32 (oxygen bomb test), 22.46, 22.57, 22.103, 22.104, 25.25, 30.2.3 (burning tests to IEC 60695-11-10), Annex J, R and T

SGS Hong Kong Limited
香港通用檢測認證有限公司
Unit 2 and 3, G/F Block A, Po Lung Centre, 11 Wang Chiu Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣宏照道十一號寶隆中心 A 座地下 2 及 3 號室

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Household electrical appliances with rated voltage up to 250 V	Safety tests :- 安全測試	
- Kitchen machine	- Compliance inspection and safety tests	BS EN 60335-2-14: 2006 + A1: 2008 + A11: 2012 EN 60335-2-14: 2006 + A1: 2008 + A11: 2012 < ***Excluding the following*** > for the above two standards Cl. 8.1.4 (discharge energy measurement), 15.1 (tests for IPX3 to IPX6), 19.11.4, 22.1 (tests for IP5X and IP6X), 22.32 (oxygen bomb test), 22.46, 25.25, 30.2.3 (burning tests to IEC 60695-11-10), 32 (measurement of EMF according to EN 50366 or EN 62233), Annex J, R and AA IEC 60335-2-14: 2016 + A1: 2019 < ***Excluding the following*** > Cl. 8.1.4 (discharge energy measurement), 15.1 (tests for IPX3 to IPX6), 19.11.4, 22.1 (tests for IP5X and IP6X), 22.32 (oxygen bomb test), 22.46, 22.57, 25.25, 30.2.3 (burning tests to IEC 60695-11-10), Annex J, R, T and AA
- Kitchen machine	- Compliance inspection and safety test	GB 4706.30-2008 ***<Excluding the following>*** Cl. 8.1.4 (discharge energy measurement), 15.1 (tests for IPX3 to IPX6), 19.11.4, 22.1 (tests for IP5X and IP6X), 22.32 (oxygen bomb test), 22.46, 25.25, 30.2.3 (burning tests to GB/T 5169.16), Annex J, R and AA
- 廚房器具	- 安全測試	GB 4706.30-2008 ***<不包括>*** Cl. 8.1.4 (放電量測量), 15.1 (IPX3 至 IPX6 測試), 19.11.4 22.1 (IP5X 及 IP6X 測試), 22.32 (氧氣罐測試), 22.46, 25.25, 30.2.3 (按 GB/T 5169.16 的燃燒測試), 附錄 J、R 及 AA

SGS Hong Kong Limited
香港通用檢測認證有限公司
Unit 2 and 3, G/F Block A, Po Lung Centre, 11 Wang Chiu Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣宏照道十一號寶隆中心 A 座地下 2 及 3 號室

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Household electrical appliances with rated voltage up to 250 V	Safety tests :- 安全測試	
- Rice cooker	- Compliance inspection and safety test	GB 4706.19-2008 ***<Excluding the following>*** Cl. 8.1.4 (discharge energy measurement), 15.1 (tests for IPX3 to IPX6), 19.11.4, 22.1 (tests for IP5X and IP6X), 22.32 (oxygen bomb test), 22.46, 25.25, 30.2.3 (burning tests to GB/T 5169.16), Annex J and R
- 電飯鍋	- 安全測試	GB 4706.19-2008 ***<不包括>*** Cl. 8.1.4 (放電量測量), 15.1 (IPX3 至 IPX6 測試), 19.11.4 22.1 (IP5X 及 IP6X 測試), 22.32 (氧氣罐測試), 22.46, 25.25, 30.2.3 (按 GB/T 5169.16 的燃燒測試), 附錄 J 及 R

SGS Hong Kong Limited
香港通用檢測認證有限公司

Unit 2 and 3, G/F Block A, Po Lung Centre, 11 Wang Chiu Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣宏照道十一號寶隆中心 A 座地下 2 及 3 號室

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Household electrical appliances with rated voltage up to 250 V	Safety tests :-	
- Shaver, hair clipper and similar appliance	- Compliance inspection and safety tests	BS EN 60335-2-8: 2015 + A1: 2016 EN 60335-2-8: 2015 + A1: 2016 < ***Excluding the following*** > for the above two standards Cl. 8.1.4 (discharge energy measurement), 15.1 (tests for IPX3 to IPX6), 19.11.4, 22.1 (tests for IP5X and IP6X), 22.32 (oxygen bomb test), 22.46, 25.25, 30.2.3 (burning tests to IEC 60695-11-10), 32 (measurement of EMF according to EN 50366 or EN 62233), Annex J and R IEC 60335-2-8: 2012 + A1: 2015 < ***Excluding the following*** > Cl. 8.1.4 (discharge energy measurement), 15.1 (tests for IPX3 to IPX6), 19.11.4, 22.1 (tests for IP5X and IP6X), 22.32 (oxygen bomb test), 22.46, 22.57, 25.25, 30.2.3 (burning tests to IEC 60695-11-10), Annex J, R and T

SGS Hong Kong Limited
香港通用檢測認證有限公司
Unit 2 and 3, G/F Block A, Po Lung Centre, 11 Wang Chiu Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣宏照道十一號寶隆中心 A 座地下 2 及 3 號室

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Household electrical appliances with rated voltage up to 250 V 額定電壓不高於 250 V 的家用電器	Safety tests :- 安全測試	
- Vacuum cleaner ***<Excluding the following>*** - ash vacuum cleaner	- Compliance inspection and safety tests	IEC 60335-2-2: 2009 ***< Excluding the following >*** Cl. 8.1.4 (discharge energy measurement), 11.7 (tests for an appliance incorporating an automatic cord reel), 15.1 (tests for IPX3 to IPX6), 15.101, 19.7, 19.11.4, 19.103, 19.104, 21.101, 21.102, 21.103, 21.104, 21.105, 22.1 (tests for IP5X and IP6X), 22.32 (oxygen bomb test), 22.46, 22.57, 22.101, 25.25, 30.2.3 (burning tests to IEC 60695-11-10), Annex B, J, R and T
- Vacuum cleaner ***<Excluding the following>*** - ash vacuum cleaner	- Compliance inspection and safety test	GB 4706.7-2014 ***<Excluding the following>*** Cl. 8.1.4 (discharge energy measurement), 11.7 (tests for an appliance incorporating an automatic cord reel), 15.1 (tests for IPX3 to IPX6), 15.101, 19.7, 19.11.4, 19.103, 19.104, 21.101, 21.102, 21.103, 21.104, 21.105, 22.1 (tests for IP5X and IP6X), 22.32 (oxygen bomb test), 22.46, 22.101, 25.25, 30.2.3 (burning tests to GB/T 5169.16), Annex B, J and R
- 真空吸塵器 ***<不包括>*** - 灰真空吸塵器	- 安全測試	GB 4706.7-2014 ***<不包括>*** Cl. 8.1.4 (放電量測量), 11.7 (帶有自動卷線器器具的測試), 15.1 (IPX3 至 IPX6 測試), 15.101, 19.7, 19.11.4, 19.103, 19.104, 21.101, 21.102, 21.103, 21.104, 21.105, 22.1 (IP5X 及 IP6X 測試), 22.32 (氧氣罐測試), 22.46, 22.101, 25.25, 30.2.3 (按 GB/T 5169.16 的燃燒測試), 附錄 B、J 及 R

SGS Hong Kong Limited
香港通用檢測認證有限公司
Unit 2 and 3, G/F Block A, Po Lung Centre, 11 Wang Chiu Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣宏照道十一號寶隆中心 A 座地下 2 及 3 號室

Electrical and Electronic Products 電氣及電子產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Safety tests :-	
Information technology and electrical business equipment: - Radio equipment - Fixed network telecommunications equipment - Power supply unit - Calculator - Document shredding machine - Pencil sharpener - Stapler - Laminating machine	- Compliance inspection and safety tests	EN 60950-1: 2006 + A2: 2013 < ***Excluding the following*** > Cl. 4.2.8, 4.2.11, 4.3.6, 4.3.12, 4.3.13, 4.4.5, 4.6.2 (test to Cl. A.3), 4.7.3.2 (test to Cl. A.2), 5.2 (electric strength test higher than 5 kV peak), 7.4.3, Zx, A.2, A.3; Annex Q, U and ZB IEC 60950-1: 2005 + A1: 2009 + A2: 2013 < ***Excluding the following*** > Cl. 4.2.8, 4.2.11, 4.3.6, 4.3.12, 4.3.13, 4.4.5, 4.6.2 (test to Cl. A.3), 4.7.3.2 (test to Cl. A.2), 5.2 (electric strength test higher than 5 kV peak), 7.4.3, A.2, A.3; Annex Q and U

SGS Hong Kong Limited
香港通用檢測認證有限公司
Unit 2 and 3, G/F Block A, Po Lung Centre, 11 Wang Chiu Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣宏照道十一號寶隆中心 A 座地下 2 及 3 號室

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Telecommunications equipment tests :-	
Telephone, fax machine, dial-up modem, answering machine and recording machine	- Testing of wire-line equipment - Power level in on-hook state - Voice-band impedance in on-hook state - Off-hook DC characteristics - Power level for voice transmission equipment - Out-band power limits - DTMF signalling	HKCA 2011 Issue 6 (2010) Cl. 3.4 Cl. 3.6 Cl. 4 Cl. 7.3 Cl. 7.4 Cl. 8.5
Land mobile service radio equipment with an internal or external RF connector intended primarily for analogue speech	- Testing of transmitter - Frequency error - Transmitter power (conducted) - Maximum effective radiated power - Frequency deviation - Adjacent and alternate channel power - Unwanted emissions in the spurious domain	ETSI EN 300 086: 2016 Cl. 7.1 to 7.6
Land mobile service radio equipment using integral antennas intended primarily for analogue speech	- Testing of transmitter - Frequency error - Effective radiated power - Maximum permissible frequency deviation - Adjacent and alternate channel power - Radiated unwanted emissions in the spurious domain	ETSI EN 300 296: 2016 Cl. 7.1 to 7.5

Civil Engineering and Development Department - Public Works Laboratories
土木工程拓展署 - 工務試驗所

ADDRESS : Public Works Central Laboratory 工務中央試驗所
地址 Public Works Central Laboratory Building, 2B Cheung Yip Street, Kowloon Bay
九龍灣祥業街2號B，工務中央試驗所大樓

ENQUIRY : Mr LEUNG Wa-chi, Chief Technical Officer/Central Laboratory
查詢 梁華賜先生，總技術主任/中央試驗所

TELEPHONE : 2305 1290
電話

FAX : 2795 9611
傳真

E-MAIL : pwcl_cto@cedd.gov.hk
電郵

WEBSITE ADDRESS : www.cedd.gov.hk/eng/services/laboratory
網址

CLIENTELE : Government departments, conditionally available for public testing
服務對象 政府部門，有限度公眾服務

Civil Engineering and Development Department - Public Works Laboratories
土木工程拓展署 – 工務試驗所

ADDRESS
地址

Main Laboratory	:	Public Works Central Laboratory 工務中央試驗所 Public Works Central Laboratory Building, 2B Cheung Yip Street, Kowloon Bay 九龍灣祥業街 2 號 B，工務中央試驗所大樓
Branch /Regional Laboratories	:	Public Works Regional Laboratory (Tai Po) 工務區域試驗所（大埔） J/O Ting Kok Road and Nam Wan Road, Tai Po, New Territories, Hong Kong 香港新界大埔汀角路與南運路交匯處 Public Works Regional Laboratory (Tin Shui Wai) 工務區域試驗所（天水圍） Tin Ying Road, Ha Tsuen, Yuen Long, New Territories, Hong Kong 香港新界元朗廈村天影路 Public Works Regional Laboratory (North Lantau) 工務區域試驗所（北大嶼山） Cheung Tung Road, Siu Ho Wan, Lantau Island, New Territories, Hong Kong 香港新界大嶼山小蠔灣翔東路 Public Works Regional Laboratory (Kowloon) 工務區域試驗所（九龍） Lok Wah Street, Tsz Wan Shan, Kowloon 九龍慈雲山樂華街 Public Works Regional Laboratory (Sham Shui Kok) 工務區域試驗所（深水角） No. 550 Cheung Tung Road, Siu Ho Wan, Lantau Island, New Territories, Hong Kong 香港新界大嶼山小蠔灣翔東路 550 號
ACCREDITED TEST CATEGORIES **認可測試類別**	:	Calibration Services 校正服務 Construction Materials 建築材料

Civil Engineering and Development Department - Public Works Laboratories
土木工程拓展署 – 工務試驗所
Public Works Central Laboratory 工務中央試驗所
Public Works Central Laboratory Building, 2B Cheung Yip Street, Kowloon Bay
九龍灣祥業街 2 號 B，工務中央試驗所大樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Construction materials testing equipment		
- Skid resistance tester	Calibration for the following parameters in accordance with BS EN 1097-8 : 2000 App. D	
	- Mass of pendulum arm	10 g
	- Mass of pointer	1 g
	- Length of pointer	1 mm
	- Length of pendulum arm	1 mm
	- Distance between C.G. of pendulum arm and centre of oscillation	2 mm
	- Angle of slider	1.5°
	- Setting of spring tension	0.1 N
	- Change in static force on the slider	0.03 N/mm
	- Slider movement when the lifting handle at its extreme position	1.5 mm
	- Slider movement when the slider at its extreme position	1.5 mm
	Calibration for the following parameters in accordance with BS EN 1338:2003 Annex I / BS EN 14231:2003 Annex A	
	- Mass of pendulum arm	10 g
	- Mass of pointer	1 g
	- Mass of slider	1 g
	- Width of slider	0.1 mm
	- Length of slider	0.1 mm
	- Thickness of slider	0.1 mm
	- Length of pointer	1 mm
	- Length of pendulum arm	1 mm
	- Distance between C.G. of pendulum arm and centre of oscillation	2 mm
	- Angle of slider	1.5o
	- Setting of spring tension	0.1 N
	- Change in static force on the slider	0.03 N/mm
	- Slider movement when the lifting handle at its extreme position	1.5 mm
	- Slider movement when the slider at its extreme position	1.5 mm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Civil Engineering and Development Department - Public Works Laboratories
土木工程拓展署 – 工務試驗所
Public Works Central Laboratory 工務中央試驗所
Public Works Central Laboratory Building, 2B Cheung Yip Street, Kowloon Bay
九龍灣祥業街 2 號 B，工務中央試驗所大樓

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Construction materials testing equipment		
- Skid resistance tester	Calibration for the following parameters in accordance with CEN/TS 16165:2012, Cl. C.10	
	- Mass of pendulum arm	10 g
	- Mass of pointer	1 g
	- Length of pointer	1 mm
	- Length of pendulum arm	1 mm
	- Distance between C.G. of pendulum arm and centre of oscillation	2 mm
	- Angle of slider	1.5°
	- Setting of spring tension	0.1 N
	- Change in static force on the slider	0.03 N/mm
	- Slider movement when the lifting handle at its extreme position	1.5 mm
	- Slider movement when the slider at its extreme position	1.5 mm
	- Verticality of the frame	0.2°
	- Deviation of angle from horizontal	0.2°
	- Vertical distance between the arm centre of rotation and zero mark	0.1 mm
	- Slider force / deflection curve	0.1 %

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Civil Engineering and Development Department - Public Works Laboratories
土木工程拓展署 – 工務試驗所
Public Works Central Laboratory 工務中央試驗所
Public Works Central Laboratory Building, 2B Cheung Yip Street, Kowloon Bay
九龍灣祥業街 2 號 B，工務中央試驗所大樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related quantities		
- Length		
- Caliper	Calibration for length in accordance with in-house method PWLTM CAL 3.2 over the following range :	
	20 mm to 500 mm	0.032 mm
- Dial gauge	Calibration for length using micrometer calibrator in accordance with in-house method PWLTM CAL 3.4 over the following range:	
	2.5 mm to 25 mm	0.004 mm
	Calibration for length using grating tester and indicator inspection machine in accordance with in-house method PWLTM CAL 3.4 over the following range:	
	0.2 mm to 50 mm	0.002 mm
	Calibration for length using gauge blocks in accordance with in-house method PWLTM CAL 3.4 over the following range:	
	1 mm to 100 mm	0.002 mm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Civil Engineering and Development Department - Public Works Laboratories
土木工程拓展署 – 工務試驗所
Public Works Central Laboratory 工務中央試驗所
Public Works Central Laboratory Building, 2B Cheung Yip Street, Kowloon Bay
九龍灣祥業街 2 號 B，工務中央試驗所大樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED[@]** 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related quantities		
- Length		
- Digimatic indicator	Calibration for length using micrometer calibrator in accordance with in-house method PWLTM CAL 3.5 over the following range:	
	2.5 mm to 25 mm	0.004 mm
	Calibration for length using grating tester and indicator inspection machine in accordance with in-house method PWLTM CAL 3.5 over the following range:	
	0.2 mm to 50 mm	0.002 mm
	Calibration for length using gauge blocks in accordance with in-house method PWLTM CAL 3.5 over the following range:	
	1 mm to 100 mm	0.002 mm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Civil Engineering and Development Department - Public Works Laboratories
土木工程拓展署 – 工務試驗所
Public Works Central Laboratory 工務中央試驗所
Public Works Central Laboratory Building, 2B Cheung Yip Street, Kowloon Bay
九龍灣祥業街 2 號 B，工務中央試驗所大樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related quantities (cont'd)		
- Length (cont'd)		
- Extensometer - Grade D for gauge length from 25 mm to 600 mm	On-site calibration for displacement using calibrating rig and verification of grade in accordance with BS 3846 : 1970 over the following range:	
	0.005 mm to 50 mm	3.0 µm
- Class 1.0 for gauge length from 25 mm to 600 mm	On-site calibration for displacement using calibrating rig and verification of class in accordance with BS EN 10002-4 : 1995 over the following range:	
	0.005 mm to 50 mm	1.7 µm
	On-site calibration for displacement using calibrating rig and verification of class in accordance with BS EN ISO 9513:2002 over the following range:	
	0.005 mm to 50 mm	1.7 µm
	On-site calibration for displacement using calibrating rig and verification of class in accordance with BS EN ISO 9513:2012 over the following range:	
	0.005 mm to 50 mm	1.7 µm
- External micrometer	Calibration for length in accordance with in-house method PWLTM CAL 3.3 over the following range :	
	2.5 mm to 50 mm	0.005 mm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Civil Engineering and Development Department - Public Works Laboratories
土木工程拓展署 – 工務試驗所
Public Works Central Laboratory 工務中央試驗所
Public Works Central Laboratory Building, 2B Cheung Yip Street, Kowloon Bay
九龍灣祥業街 2 號 B，工務中央試驗所大樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities		
- Force		
- Concrete testing machine	On-site calibration for compressive force using Grade 1.0 load cells and verification of grade in accordance with BS 1610 : Part 1 : 1985 over the following range:	
	1 kN to 3000 kN	0.32 %
	On-site calibration for compressive force using Grade 1.0 load cells and verification of grade in accordance with BS 1610 : Part 1 : 1992 over the following range:	
	1 kN to 3000 kN	0.32 %
	On-site calibration for compressive force using Class 1 load cells and verification of class in accordance with BS EN 12390-4:2000 Table 1 and Annex B over the following range:	
	1 kN to 3000 kN	0.32 %

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Civil Engineering and Development Department - Public Works Laboratories
土木工程拓展署 – 工務試驗所
Public Works Central Laboratory 工務中央試驗所
Public Works Central Laboratory Building, 2B Cheung Yip Street, Kowloon Bay
九龍灣祥業街 2 號 B，工務中央試驗所大樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities (cont'd)		
- Force (cont'd)		
- Concrete testing machine (cont'd)	On-site verification of strain ratio by performing strain gauged column and proving test (stability test) in accordance with BS 1881 : Part 115 : 1986 (Amd. 6536) over the following range of compressive force:	
	200 kN to 2000 kN	0.02 strain ratio
	On-site verification of strain ratio by performing strain gauged column and proving test (stability test) in accordance with BS EN 12390-4:2000 Table 3 and Annex A over the following range of compressive force:	
	200 kN to 2000 kN	0.02 strain ratio
	On-site verification of strain ratio by performing strain gauged column and proving test (stability test) in accordance with CS1 : 1990 App. D over the following range of compressive force:	
	200 kN to 2000 kN	0.02 strain ratio
	On-site verification of strain ratio by performing strain gauged column and proving test (stability test) in accordance with CS1 : 2010 App. D over the following range of compressive force:	
	200 kN to 2000 kN	0.02 strain ratio

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Civil Engineering and Development Department - Public Works Laboratories
土木工程拓展署 – 工務試驗所
Public Works Central Laboratory 工務中央試驗所
Public Works Central Laboratory Building, 2B Cheung Yip Street, Kowloon Bay
九龍灣祥業街 2 號 B，工務中央試驗所大樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED[@]** 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities (cont'd)		
- Force (cont'd)		
- Tensile testing machine	On-site calibration for tensile force using Class 1 load cells and verification of class in accordance with BS EN 10002-2 : 1992 over the following range:	
	50 N to 2000 kN	0.32 %

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Civil Engineering and Development Department - Public Works Laboratories
土木工程拓展署 – 工務試驗所
Public Works Central Laboratory 工務中央試驗所
Public Works Central Laboratory Building, 2B Cheung Yip Street, Kowloon Bay
九龍灣祥業街 2 號 B，工務中央試驗所大樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities (cont'd)		
- Force (cont'd)		
- Universal testing machine in compression mode	On-site calibration for compressive force using Class 1 load cells and verification of class in accordance with BS EN ISO 7500-1 : 1999 over the following range:	
	50N to 3000 kN	0.32 %
	On-site calibration for compressive force using Class 1 load cells and verification of class in accordance with BS EN ISO 7500-1 : 2004 over the following range:	
	50N to 3000 kN	0.32 %
	On-site calibration for compressive force using Class 1 load cells and verification of class in accordance with BS EN ISO 7500-1 : 2018 over the following range:	
	50N to 3000 kN	0.32 %

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Civil Engineering and Development Department - Public Works Laboratories
土木工程拓展署 – 工務試驗所

Public Works Central Laboratory 工務中央試驗所
Public Works Central Laboratory Building, 2B Cheung Yip Street, Kowloon Bay
九龍灣祥業街 2 號 B，工務中央試驗所大樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities (cont'd)		
- Force (cont'd)		
- Universal testing machine in compression mode	On-site calibration for compressive force using Grade 1.0 load cells and verification of grade in accordance with BS 1610: Part 1: 1985 over the following range:	
	50N to 3000 kN	0.32 %
	On-site calibration for compressive force using Grade 1.0 load cells and verification of grade in accordance with BS 1610: Part 1: 1992 over the following range:	
	50N to 3000 kN	0.32 %

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Civil Engineering and Development Department - Public Works Laboratories
土木工程拓展署 – 工務試驗所
Public Works Central Laboratory 工務中央試驗所
Public Works Central Laboratory Building, 2B Cheung Yip Street, Kowloon Bay
九龍灣祥業街 2 號 B，工務中央試驗所大樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities (cont'd)		
- Force (cont'd)		
- Universal testing machine in tension mode	On-site calibration for tensile force using Class 1 load cells and verification of class in accordance with BS EN ISO 7500-1 : 1999 over the following range:	
	50N to 2000 kN	0.32 %
	On-site calibration for tensile force using Class 1 load cells and verification of class in accordance with BS EN ISO 7500-1 : 2004 over the following range:	
	50N to 2000 kN	0.32 %
	On-site calibration for tensile force using Class 1 load cells and verification of class in accordance with BS EN ISO 7500-1 : 2018 over the following range:	
	50N to 2000 kN	0.32 %
	On-site calibration for tensile force using Grade 1.0 load cells and verification of grade in accordance with BS 1610: Part 1: 1985 over the following range:	
	50N to 2000 kN	0.32 %

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Civil Engineering and Development Department - Public Works Laboratories
土木工程拓展署 – 工務試驗所
Public Works Central Laboratory 工務中央試驗所
Public Works Central Laboratory Building, 2B Cheung Yip Street, Kowloon Bay
九龍灣祥業街 2 號 B，工務中央試驗所大樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities (cont'd)		
- Force (cont'd)		
- Load cell	Calibration for force in accordance with in-house method PWLTM CAL 1.10 over the following range:	
	50 N to 1000 kN	0.56%
- Proving ring	Calibration for compressive force in accordance with GEOSPEC 3 Cl. A3 over the following ranges :	
	50 N to 3 kN	0.5%
	above 3 kN to 100 kN	0.35%
	Calibration for tensile force in accordance with GEOSPEC 3 Cl. A3 over the following ranges :	
	50 N to 3 kN	0.5%
- Force transducer	Calibration for compressive force in accordance with GEOSPEC 3 Cl. A3 over the following ranges :	
	50 N to 3 kN	0.5%
	above 3 kN to 100 kN	0.35%

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Civil Engineering and Development Department - Public Works Laboratories
土木工程拓展署 – 工務試驗所
Public Works Central Laboratory 工務中央試驗所
Public Works Central Laboratory Building, 2B Cheung Yip Street, Kowloon Bay
九龍灣祥業街 2 號 B，工務中央試驗所大樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities (cont'd)		
- Weight and balance		
- Electronic balance	On-site calibration for mass using OIML Class F1 standard weights from 1 g to 30 kg in accordance with in-house method PWLTM CAL 10.4 over the following ranges :	
	1 g to 200 g	0.5 mg
	above 200 g to 2 kg	4 mg
	above 2 kg to 6 kg	10 mg
	above 6 kg to 20 kg	35 mg
	above 20 kg to 30 kg	50 mg
- Weight	Calibration for mass in accordance with in-house method PWLTM CAL 10.2 over the following ranges:	
	20 g to 200 g	4 mg
	above 200 g to 6 kg	40 mg
	above 6 kg to 30 kg	400 mg

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Civil Engineering and Development Department - Public Works Laboratories
土木工程拓展署 – 工務試驗所
Public Works Central Laboratory 工務中央試驗所
Public Works Central Laboratory Building, 2B Cheung Yip Street, Kowloon Bay
九龍灣祥業街 2 號 B，工務中央試驗所大樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities (cont'd)		
- Pressure		
- Pressure gauge	Calibration for pressure in accordance with in-house method PWLTM CAL 2.2 using an electronic manometer over the following range :	
	50 kPa to 1000 kPa	1 kPa
	1000 kPa to 2000 kPa	6 kPa
	Calibration for pressure in accordance with GEOSPEC 3, Cl. A3.2 over the following ranges:	
	50 kPa to 200 kPa	1.5 kPa
	above 200 kPa to 2000 kPa	4.5 kPa
- Pressure transducer	Calibration for pressure in accordance with GEOSPEC 3, Cl. A3.2 over the following ranges:	
	50 kPa to 200 kPa	1.5 kPa
	above 200 kPa to 2000 kPa	4.5 kPa
- Vacuum gauge	Calibration for pressure in accordance with in-house method PWLTM CAL 2.2 using an electronic manometer over the following range :	
	-98 kPa to -1 kPa	0.67 kPa

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Civil Engineering and Development Department - Public Works Laboratories
土木工程拓展署 – 工務試驗所
Public Works Central Laboratory 工務中央試驗所
Public Works Central Laboratory Building, 2B Cheung Yip Street, Kowloon Bay
九龍灣祥業街 2 號 B，工務中央試驗所大樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Thermometry		
- Temperature		
- Liquid in glass thermometer	Calibration for temperature in accordance with in-house method PWLTM CAL 6.1 over the following ranges :	
	0ºC 10ºC to 80ºC above 80ºC to 170ºC	0.1 K 0.2 K 0.6 K
- Thermometer with thermocouple	Calibration for temperature in accordance with in-house method PWLTM CAL 6.1 over the following ranges :	
	0ºC 10ºC to 80ºC above 80ºC to 170ºC	0.4 K 0.4 K 0.7 K
- Digital thermometer with built-in sensor	Calibration for temperature in accordance with in-house method PWLTM CAL 6.1 over the following ranges :	
	0ºC 10ºC to 80ºC above 80ºC to 170ºC	0.1 K 0.3 K 0.6 K
- Digital thermometer with platinum resistance sensor	Calibration for temperature in accordance with in-house method PWLTM CAL 6.1 over the following ranges :	
	0ºC 10ºC to 80ºC above 80ºC to 170ºC	0.1 K 0.2 K 0.6 K

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Civil Engineering and Development Department - Public Works Laboratories
土木工程拓展署 – 工務試驗所
Public Works Central Laboratory 工務中央試驗所
Public Works Central Laboratory Building, 2B Cheung Yip Street, Kowloon Bay
九龍灣祥業街 2 號 B，工務中央試驗所大樓

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Admixtures (chemical analysis)	Chloride ion content	BS 5075: Part 1: 1982 App. E
Aggregates (chemical analysis)	Water-soluble chloride ion content	CS3: 2013 Section 21.3
	Acid-soluble sulphate content	CS3: 2013 Section 21.5
	Total sulphur content	CS3: 2013 Section 21.6
	Presence of humus	CS3: 2013 Section 21.7
Aggregates	Methylene blue value	CS3: 2013 Section 13
	Drying shrinkage	CS3: 2013 Section 20
	Effect of organic substance by mortar method	CS3: 2013 Section 22
	Alkali silica reaction potential by ultra-accelerated mortar-bar test	CS1: 2010 Section 22
Blocks and bricks	Bending strength of concrete paving flags	BS 7263: Part 1: 2001 Annex E
	Bending strength and breaking load of concrete paving flags	BS EN 1339: 2003 Annex F
	Compressive strength of paving blocks	General Specification for Civil Engineering Works (2006) Vol. 1 App. 11.1 General Specification for Civil Engineering Works (2020) Vol. 1 App. 11.1
	Dimensions of clay and calcium silicate pavers	BS 6677: Part 1: 1986 App. C
	Dimensions of concrete kerbs	BS 7263: Part 1: 1994 Annex A
	Dimensions of concrete paving blocks	BS 6717: 2001 Annex B: B1 – B3 BS EN 1338: 2003 Annex C: C1 – C3
	Dimensions of concrete paving flags	BS 7263: Part 1: 2001 Annex B: B.1 – B.3 BS EN 1339: 2003 Annex C: C1 – C3

Civil Engineering and Development Department - Public Works Laboratories
土木工程拓展署 – 工務試驗所
Public Works Central Laboratory 工務中央試驗所
Public Works Central Laboratory Building, 2B Cheung Yip Street, Kowloon Bay
九龍灣祥業街 2 號 B，工務中央試驗所大樓

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Blocks and bricks (cont'd)	Dimensions of natural stone slabs	BS EN 1341: 2001 Annex A: A.1, A.2 & A.4
	Slip resistance of new pedestrian surface materials by wet pendulum test	AS 4586: 2013 App. A (excluding A2, A3 & A7)
	Transverse breaking load of clay and calcium silicate pavers	BS 6677: Part 1: 1986 App. D
	Transverse strength of concrete kerbs	BS 7263: Part 1: 1994 Annex B
	Unpolished slip/skid resistance value of clay pavers	BS EN 1344: 2002 Annex F
	Unpolished slip resistance value of natural stone slabs	BS EN 1341: 2001 Annex D
	Unpolished slip resistance value of natural stone setts	BS EN 1342: 2001 Annex C
	Water absorption of masonry units, segmental pavers and flags	AS/NZS 4456.14: 1997 AS/NZS 4456.14: 2003 General Specification for Civil Engineering Works (2006) Vol. 1 Cl. 11.88 General Specification for Civil Engineering Works (2020) Vol. 1 Cl. 11.88

Civil Engineering and Development Department - Public Works Laboratories
土木工程拓展署 － 工務試驗所
Public Works Central Laboratory 工務中央試驗所
Public Works Central Laboratory Building, 2B Cheung Yip Street, Kowloon Bay
九龍灣祥業街 2 號 B，工務中央試驗所大樓

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Cement	Compressive strength of broken mortar prisms in the force range 2 kN – 250 kN	BS EN 196-1: 1995 BS EN 196-1: 2005
	Density	BS EN 196-6: 1992 Annex NC BS EN 196-6: 2010 Annex NC
	Fineness	BS EN 196-6: 1992 (by Blaine method) BS EN 196-6: 2010 (by Blaine method)
	Flexural strength of mortar prisms	BS EN 196-1: 1995 BS EN 196-1: 2005
	Setting times	BS EN 196-3: 1995 BS EN 196-3: 2005 + Al: 2008
	Soundness	BS EN 196-3: 1995 BS EN 196-3: 2005 + Al: 2008
	Standard consistence	BS EN 196-3: 1995 BS EN 196-3: 2005 + Al: 2008
Cement (chemical analysis)	Loss-on-ignition	BS EN 196-2: 2005 Cl. 7
	Chloride content	BS EN 196-2: 2005 Cl. 14
	Sulphate content (as SO_3)	BS EN 196-2: 2005 Cl. 8
	Residue insoluble in hydrochloric acid and sodium carbonate	BS EN 196-2: 2005 Cl. 9
	Alkali content	BS EN 196-2: 2005 Cl. 17
Cement stabilised soil	Unconfined compressive strength of cement stabilised soil cores (with / without capping)	Interim Guidelines on Testing of Unconfined Compressive Strength of Cement Stabilised Soil Cores in Hong Kong (Oct 2017) App. B published by Geotechnical Division of The Hong Kong Institution of Engineers

Civil Engineering and Development Department - Public Works Laboratories
土木工程拓展署 – 工務試驗所
Public Works Central Laboratory 工務中央試驗所
Public Works Central Laboratory Building, 2B Cheung Yip Street, Kowloon Bay
九龍灣祥業街 2 號 B，工務中央試驗所大樓

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Concrete	Curing of test specimens	CS1: 2010 Section 10
	Compressive strength of concrete cubes in the force range 50 kN – 2000 kN (including cement grout cubes)	CS1: 2010 Section 12
	Tensile splitting strength of cylindrical specimens	CS1: 2010 Section 13
	Flexural strength of concrete test beams	CS1: 2010 Section 14
	Compressive strength of concrete cores in the force range 50 kN – 2000 kN	CS1: 2010 Section 15
	Density of hardened concrete	CS1: 2010 Section 16
	Concrete's ability to resist chloride ion penetration	CS1: 2010 Section 19
Concrete (chemical analysis)	Chloride content (expressed as percentage by mass of concrete)	CS 1: 1990 Section 21.10.2 BS 1881: Part 124: 1988 Cl. 10.2 CS 1: 2010 Section 21.10.2
	Sulphate content (expressed as percentage by mass of concrete)	CS 1: 1990 Section 21.10.3 CS 1: 2010 Section 21.10.3

Civil Engineering and Development Department - Public Works Laboratories
土木工程拓展署 – 工務試驗所
Public Works Central Laboratory 工務中央試驗所
Public Works Central Laboratory Building, 2B Cheung Yip Street, Kowloon Bay
九龍灣祥業街 2 號 B，工務中央試驗所大樓

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Ground granulated blastfurnace slag (GGBS)	Activity index	BS EN 196-1: 1995 BS EN 196-1: 2005 in conjunction with the following specification: BS EN 15167-1: 2006 Cl. 5.3.2.3
	Density	BS EN 196-6: 1992 Annex NC BS EN 196-6: 2010 Annex NC in conjunction with the following specification: BS EN 15167-1: 2006 Cl. 5.5g
	Fineness	BS EN 196-6: 1992 (by Blaine Method) BS EN 196-6: 2010 (by Blaine Method) in conjunction with the following specification: BS EN 15167-1: 2006 Cl. 5.3.1
	Initial setting time	BS EN 196-3: 1995 BS EN 196-3: 2005 + A1: 2008 in conjunction with the following specification: BS EN 15167-1: 2006 Cl. 5.3.2.2
	Standard consistence	BS EN 196-3: 1995 BS EN 196-3: 2005 + A1: 2008 in conjunction with the following specification: BS EN 15167-1: 2006 Cl. 5.3.2.2
Ground water (chemical analysis)	Sulphate content	GEOSPEC 3: 2001 Test 9.3
	pH value	GEOSPEC 3: 2001 Test 9.5
Manhole covers / steps	Bending test of manhole steps	BS 1247: Part 1: 1990 App. A
	Pull-out test of manhole steps	BS 1247: Part 1: 1990 App. B
	Twist test of manhole steps	BS 1247: Part 1: 1990 Cl. 7.1
	Loading test of gully tops and manhole tops	BS EN 124: 1994 Cl. 8
	Mass of manhole covers and gully gratings	In-house method STE 6.1
	Resistance to fracture of manhole covers and gully gratings	General Specification for Civil Engineering Works (2006) Vol. 1 Cl. 5.95 & App. 5.3
	Loading test of surface boxes for gas and waterworks purpose	BS 5834: Part 2: 1983 App. A

Civil Engineering and Development Department - Public Works Laboratories
土木工程拓展署 – 工務試驗所
Public Works Central Laboratory 工務中央試驗所
Public Works Central Laboratory Building, 2B Cheung Yip Street, Kowloon Bay
九龍灣祥業街 2 號 B，工務中央試驗所大樓

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Metallic materials	Actual diameter and actual breaking load test of stranded steel wire ropes in the force range 5 kN – 1600 kN	BS 302-1: 1987 App. A & B
	Bend test of carbon steel bars	CS2: 1995 Cl. 6.1 & 6.3
	Bond property of steel reinforcing bars by surface geometry measurement	CS2: 2012 (Rev. 6) Cl. 6.1 & 6.7.2 CS2: 2012 (Rev. 6) Cl. 6.1 & 6.7.2 with modification
	Mass per meter of steel reinforcing bars	CS2: 2012 (Rev. 6) Cl. 6.1 & 6.2
	Mass per metre square, pitch and dimension of steel fabric for reinforcement of concrete	In-house method STE 2.9 in conjunction with the following specification: BS 4483: 2005 Cl. 7.3
	Mass per unit length of carbon steel bars	CS2: 1995 Cl. 1.4 & 1.5
	Proof load test of stainless steel nuts in the force range 10 kN – 1600 kN	BS EN ISO 898-2: 2012 Cl. 9.1 in conjunction with the following specification: BS EN ISO 3506-2: 2009 Cl. 6
	Proof load test of steel nuts in the force range 10 kN – 1600 kN	BS 3692: 1967 App. E BS 3692: 2001 Annex C BS 4190: 2001 Annex A.1 BS 4190: 2014 Annex A
	Rebend test of carbon steel bars	CS2: 1995 Cl. 6.1 & 6.4
	Rebend test of steel reinforcing bars for reinforcement of concrete	CS2: 2012 (Rev. 6) Cl. 6.1 & 6.5
	Rebend test of welded fabrics for reinforcement of concrete	BS EN ISO 15630-1: 2002 Cl. 7 in conjunction with the following specification: BS 4483: 2005 Cl. 7.2.2, 7.2.5 & 9
	Static tension test, static compression test & cyclic tension & compression test for mechanical connector systems (Type 2 Splice) for steel reinforcing bars in the force range 5 kN -1600 kN	ICC Evaluation Service, Inc. AC133 (Approved May 2008, Effective 1 Jun 2008) Cl. 4.1.2 with modifications in conjunction with the following specification: Buildings Department Code of Practice for Structural Use of Concrete (2013) Cl. 3.2.8.4(b), (c) & (d)
	Straightness and deviation from nominal mass per meter of 7-wire strands	BS EN ISO 15630-3: 2019 Cl. 14.3.4 & 16 in conjunction with the following specification: BS 5896: 2012 Cl. 7.2.1

Civil Engineering and Development Department - Public Works Laboratories
土木工程拓展署 – 工務試驗所
Public Works Central Laboratory 工務中央試驗所
Public Works Central Laboratory Building, 2B Cheung Yip Street, Kowloon Bay
九龍灣祥業街 2 號 B，工務中央試驗所大樓

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Metallic materials (cont'd)	Tensile test & slip/permanent elongation test of mechanical coupler for reinforcing bar in the force range 5 kN – 1600 kN	BS EN ISO 6892-1: 2009 Cl. 10.4 Method B & ISO 15835-2: 2018 Cl. 5.4 excluding Cl. 5.4.4 in conjunction with the following specification(s): Buildings Department Code of Practice for Structural Use of Concrete (2004) Cl. 3.2.8.2 Buildings Department Code of Practice for Structural Use of Concrete (2013) Cl. 3.2.8.3 General Specification for Civil Engineering Works (2006) Vol. 2 Cl. 15.35 General Specification for Civil Engineering Works (2020) Vol. 2 Cl. 15.35
	Tensile test of carbon steel bars in the force range 5 kN – 1600 kN	CS2: 1995 Cl. 6.1 & 6.2
	Tensile test of high tensile 7-wire strands in the force range 8 kN – 980 kN	BS 18-2: 1971 BS EN ISO 6892-1: 2019 Cl. 10.3.3 Method B & BS EN ISO 15630-3: 2019 Cl. 5 in conjunction with the following specification(s): BS 5896: 1980 App. A BS 5896: 2012 Cl. 7.2.2
	Tensile test of metallic materials in the force range 5 kN – 1600 kN	BS 18: 1987 BS EN 10002-1: 2001 BS EN ISO 6892-1: 2019 in conjunction with the following specification(s): BS 4360: 1986 Cl. 23 BS EN 10025-1: 2004 Cl. 7.3.1, 9.2.3.2 & 10.2.1 BS EN 10088-2:2005 Cl. 7.4.2 BS EN 10088-2:2014 Cl. 7.4.2 BS EN 10088-3:2005 Cl. 7.4.2 BS EN 10088-3:2014 Cl. 7.4.2 BS EN 10210-1: 2006 Cl. 6.6.1, 9.2.1 & 9.2.2 BS EN 10219-1: 2006 Cl. 6.7.1, 9.2.1 & 9.2.2
	Tensile test of metallic materials in the force range 10 kN – 1600 kN	BS 18-4: 1971 BS EN 10002-1: 2001 in conjunction with the following specification(s): BS 1387: 1985 Cl. 3.2 BS EN 10255: 2004 Cl. 9.3

Civil Engineering and Development Department - Public Works Laboratories
土木工程拓展署 – 工務試驗所
Public Works Central Laboratory 工務中央試驗所
Public Works Central Laboratory Building, 2B Cheung Yip Street, Kowloon Bay
九龍灣祥業街 2 號 B，工務中央試驗所大樓

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Metallic materials (cont'd)	Tensile test of steel reinforcing bars, welded fabrics for reinforcement of concrete in the force range 0.2 kN – 1600 kN	BS EN 6892-1: 2009 Cl. 10.4 Method B in conjunction with the following specification: CS2: 2012 (Rev. 6) Cl. 6.1 & 6.4
	Tensile test of welded fabrics for reinforcement of concrete in the force range 2 kN – 1600 kN	BS EN ISO 15630-2:2002 Cl. 5 ISO 6892-1:1998 in conjunction with the following specification: BS 4483: 2005 Cl. 7.2.2, 7.2.3 & 9
	Tensile test of unmachined (finished) bolts and screws in the force range 10 kN – 1600 kN	BS 18: 1987 BS EN ISO 898-1: 1999 Cl. 8.2 BS EN ISO 898-1: 2013 Cl. 9.2 BS EN ISO 6892-1: 2019 Cl. 10.3.3 Method B ISO 6892: 1998 Cl. 10 in conjunction with the following specification(s): BS 3692: 1967 Cl. 12 BS 3692: 2001 Cl. 11 & 13 BS 4190: 2001 Cl. 15 & 20 BS 4190: 2014 Cl. 15 & 21
	Tensile test of unmachined stainless steel bolts and screws in the force range 10 kN – 1600 kN	BS EN ISO 898-1: 2013 Cl. 9.2 BS EN ISO 6892-1: 2019 Cl. 10.3.3 Method B in conjunction with the following specification(s): BS EN ISO 3506-1: 2009 Cl. 6 BS EN ISO 3506-1: 2020 Cl. 9.1
	Weld shear force test of steel fabrics for reinforcement of concrete	BS EN ISO 15630-2: 2002 Cl. 7 in conjunction with the following specification: BS 4483: 2005 Cl. 7.2.2, 7.2.4 & 9
Playground equipment	Head injury criteria value for impact absorbing playground surfacing in the height range 0.6 m to 3 m.	BS EN 1177: 1998 (excluding Cl. 6.4.3.2) (Free falling headform method)

Civil Engineering and Development Department - Public Works Laboratories
土木工程拓展署 – 工務試驗所
Public Works Central Laboratory 工務中央試驗所
Public Works Central Laboratory Building, 2B Cheung Yip Street, Kowloon Bay
九龍灣祥業街 2 號 B，工務中央試驗所大樓

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Pipes	Crushing strength test of precast concrete pipes & fittings (up to 900 mm diameter)	BS EN 1916: 2002 Annex C in conjunction with the following specification: BS 5911: Part 1: 2002 + A2: 2010 Cl. 5.6
	Crushing strength of vitrified clay pipes	BS EN 295-3: 2012 Cl. 7 in conjunction with the following specification: BS EN 295-1: 2013 Cl. 5.9
	Heat reversion test of unplasticized PVC pipes	BS 3506: 1969 App. A in conjunction with the following specification: BS 3506: 1969 Cl. 8.2
	Heat reversion test of unplasticised PVC soil and ventilating pipes	BS 2782: Part 11: 1981 (Method 1102B) in conjunction with the following specification: BS 4514: 193 Cl. 5.4
	Heat reversion test of unplasticised polyvinyl chloride (PVC-U) pipes for below ground gravity drainage and sewerage	BS 2782: Part 11: 1981 (Method 1102B) in conjunction with the following specification: BS 4660: 1989 Cl. 6.4
	Heat reversion test of unplasticized PVC pipes for gravity sewers	BS 5481:1977 App. A in conjunction with the following specification: BS 5481:1977 Cl. 8.1.4
	Impact strength test of unplasticized PVC pipes for industrial uses	BS 3506:1969 App. E
	Impact resistance test of unplasticized PVC soil ventilating pipes	BS 4514:1983 App B in conjunction with the following specification: BS 4514:1983 Cl. 5.3
	Impact resistance test of unplasticised polyvinyl chloride (PVC-U) pipes for below ground gravity drainage and sewerage	BS 2782: Part 11: 1989 (Method 1108A) in conjunction with the following specification: BS 4660:1989 Cl. 6.3
	Impact resistance test of unplasticized PVC pipes for gravity sewers	BS 5481:1977 App. G in conjunction with the following specification: BS 5481:1977 Cl. 8.1.3

Civil Engineering and Development Department - Public Works Laboratories
土木工程拓展署 – 工務試驗所
Public Works Central Laboratory 工務中央試驗所
Public Works Central Laboratory Building, 2B Cheung Yip Street, Kowloon Bay
九龍灣祥業街 2 號 B，工務中央試驗所大樓

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Pipes (cont'd)	Water absorption test of precast concrete pipes & fittings	BS EN 1916: 2002 Annex F in conjunction with the following specification: BS EN 1916: 2002 Cl. 4.2.6.2
	Water absorption and watertightness test for precast concrete inspection chambers and street gullies	BS 5911: Part 2: 1982
	Water absorption of vitrified clay pipes	BS 65: 1991 App. F in conjunction with the following specification: BS 65: 1991 Cl. 6.6.1
Pulverised fuel ash (PFA)	Fineness	BS 3892: Part 1: 1997 Annex D in conjunction with the following specification: BS 3892: Part 1: 1997 Cl. 6
	Particle density	BS EN 196-6: 1992 Annex NC in conjunction with the following specification: BS 3892: Part 1: 1997 Cl. 7
	Water requirement	BS 3892: Part 1: 1997 Annex E with modification in conjunction with the following specification: BS 3892: Part 1: 1997 Cl. 8
	Strength factor	BS 3892: Part 1: 1997 Annex F with modification in conjunction with the following specification: BS 3892: Part 1: 1997 Cl. 9
	Standard consistence	BS EN 196-3: 1995 with modification in conjunction with the following specification: BS 3892: Part 1: 1997 Cl. 10
	Initial setting time	BS EN 196-3: 1995 with modification in conjunction with the following specification: BS 3892: Part 1: 1997 Cl. 10
	Soundness	BS EN 196-3: 1995 with modification in conjunction with the following specification: BS 3892: Part 1: 1997 Cl. 11

Civil Engineering and Development Department - Public Works Laboratories
土木工程拓展署 – 工務試驗所
Public Works Central Laboratory 工務中央試驗所
Public Works Central Laboratory Building, 2B Cheung Yip Street, Kowloon Bay
九龍灣祥業街 2 號 B，工務中央試驗所大樓

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Pulverised fuel ash (chemical analysis)	Loss-on-ignition (Uncorrected)	BS EN 196-2 : 2005 Cl. 7
	Sulphuric anhydride content (as SO_3)	BS EN 196-2 : 2005 Cl. 8
	Calcium oxide content (CaO)	BS EN 196-2 : 2005 Cl. 13.12 (Reference method)
	Sodium oxide content	BS EN 196-2: 2005 Cl. 17 (Reference method)
	Potassium oxide content	BS EN 196-2: 2005 Cl. 17 (Reference method)
	Total alkali content	BS EN 196-2 : 2005 Cl. 17 (Reference method)
	Moisture content	BS 3892: Part 1: 1997 (Annex C)
	Chloride content	BS EN 196-2: 2005 Cl. 14
Rock	Cerchar abrasiveness index (CAI)	ASTM D7625-10
	Direct shear strength of jointed rock	ASTM D5607-95 with modifications
	Elastic moduli of intact rock core specimens in uniaxial compression	ASTM D3148-96 with modification
	Point load strength index of rock by diametral and axial tests	ASTM D5731-95
	Preparation of rock core specimens and determination of dimensional and shape tolerances	ASTM D4543-91 with modifications
	Unconfined compressive strength of intact rock core specimens	ASTM D2938-95 with modification

Civil Engineering and Development Department - Public Works Laboratories
土木工程拓展署 – 工務試驗所
Public Works Central Laboratory 工務中央試驗所
Public Works Central Laboratory Building, 2B Cheung Yip Street, Kowloon Bay
九龍灣祥業街 2 號 B，工務中央試驗所大樓

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Soil (Phase I)	Moisture content by oven-drying at 45˚C ± 5˚C	GEOSPEC 3: 2001 Test 5.1 GEOSPEC 3: 2017 Test 5.1
	Moisture content by oven-drying at 105˚C ± 5˚C	GEOSPEC 3: 2001 Test 5.2 GEOSPEC 3: 2001 Test 5.2 with modifications (PWLTM No. SOL 2.18 by infrared oven-drying) GEOSPEC 3: 2017 Test 5.2 GEOSPEC 3: 2017 Test 5.2 with modifications (PWLTM No. SOL 2.18 by infrared oven-drying)
	Comparative test for determination of moisture content by oven-drying	GEOSPEC 3: 2001 Test 5.3 GEOSPEC 3: 2017 Test 5.3
	Liquid limit, plastic limit, and plasticity index	GEOSPEC 3: 2001 Test 6.1 GEOSPEC 3: 2017 Test 6.1
	Liquidity index	GEOSPEC 3: 2001 Test 6.2 GEOSPEC 3: 2017 Test 6.2
	Particle density by gas jar method	GEOSPEC 3: 2001 Test 7.1 GEOSPEC 3: 2017 Test 7.1
	Particle density by small pyknometer method	GEOSPEC 3: 2001 Test 7.2 GEOSPEC 3: 2017 Test 7.2
	Particle size distribution by wet sieving (with dispersant)	GEOSPEC 3: 2001 Test 8.1 GEOSPEC 3: 2017 Test 8.1
	Particle size distribution by wet sieving (without dispersant)	GEOSPEC 3: 2001 Test 8.2 GEOSPEC 3: 2017 Test 8.2
	Particle size distribution by hydrometer (with dispersant)	GEOSPEC 3: 2001 Test 8.5 GEOSPEC 3: 2017 Test 8.5
	Particle size distribution by hydrometer (without dispersant)	GEOSPEC 3: 2001 Test 8.6 GEOSPEC 3: 2017 Test 8.6
	Construction of a continuous particle size distribution curve from the results of wet-sieving and sedimentation tests	GEOSPEC 3: 2001 Test 8.7 GEOSPEC 3: 2017 Test 8.7

Civil Engineering and Development Department - Public Works Laboratories
土木工程拓展署 – 工務試驗所
Public Works Central Laboratory 工務中央試驗所
Public Works Central Laboratory Building, 2B Cheung Yip Street, Kowloon Bay
九龍灣祥業街 2 號 B，工務中央試驗所大樓

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Soil (Phase I) (cont'd)	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a 1000cc mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.1 GEOSPEC 3: 2017 Test 10.1
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a 1000cc mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.2 GEOSPEC 3: 2017 Test 10.2
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a CBR mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.3 GEOSPEC 3: 2017 Test 10.3
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a CBR mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.4 GEOSPEC 3: 2017 Test 10.4
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a 1000cc mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.5 GEOSPEC 3: 2017 Test 10.5
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a 1000cc mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.6 GEOSPEC 3: 2017 Test 10.6
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a CBR mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.7 GEOSPEC 3: 2017 Test 10.7
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a CBR mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.8 GEOSPEC 3: 2017 Test 10.8

Civil Engineering and Development Department - Public Works Laboratories
土木工程拓展署 – 工務試驗所
Public Works Central Laboratory 工務中央試驗所
Public Works Central Laboratory Building, 2B Cheung Yip Street, Kowloon Bay
九龍灣祥業街 2 號 B，工務中央試驗所大樓

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Soil (Phase I) (cont'd)	California Bearing Ratio (CBR)	GEOSPEC 3: 2001 Test 12.1 GEOSPEC 3: 2017 Test 12.1
Soil (Phase II)	One-dimensional consolidation test	GEOSPEC 3: 2001 Test 14.1 GEOSPEC 3: 2017 Test 14.1
	Isotropic compression test in a triaxial cell	GEOSPEC 3: 2001 Test 14.2 GEOSPEC 3: 2017 Test 14.2
	Unconsolidated undrained triaxial compression test without pore pressure measurement	GEOSPEC 3: 2001 Test 15.1 GEOSPEC 3: 2017 Test 15.1
	Isotropically consolidated undrained triaxial compression test with pore pressure measurement	GEOSPEC 3: 2001 Test 15.2 GEOSPEC 3: 2017 Test 15.2
	Isotropically consolidated undrained triaxial compression test with pore pressure measurement of loosely compacted fill	GEOSPEC 3: 2001 Test 15.2 with modification GEOSPEC 3: 2017 Test 15.2 with modification
	Isotropically consolidated drained triaxial compression test with measurement volume change	GEOSPEC 3: 2001 Test 15.3 GEOSPEC 3: 2017 Test 15.3
	Direct shear test (small shear box apparatus)	GEOSPEC 3: 2001 Test 16.1 GEOSPEC 3: 2017 Test 16.1
	Direct shear test (large shear box apparatus)	GEOSPEC 3: 2001 Test 16.2 GEOSPEC 3: 2017 Test 16.2

Civil Engineering and Development Department - Public Works Laboratories
土木工程拓展署 – 工務試驗所
Public Works Central Laboratory 工務中央試驗所
Public Works Central Laboratory Building, 2B Cheung Yip Street, Kowloon Bay
九龍灣祥業街 2 號 B，工務中央試驗所大樓

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Soil (chemical analysis)	Total sulphate content	GEOSPEC 3: 2001 Test 9.3 (excluding Cl. 9.3.8a) GEOSPEC 3: 2017 Test 9.3 (excluding Cl. 9.3.8a)
	Water-soluble sulphate content	GEOSPEC 3: 2001 Test 9.3 (excluding Cl. 9.3.8a) GEOSPEC 3: 2017 Test 9.3 (excluding Cl. 9.3.8a)
	Organic matter content	GEOSPEC 3 : 2001 Test 9.1 (excluding Cl. 9.1.8a) GEOSPEC 3 : 2001 Test 9.1 (excluding Cl. 9.1.8a)
	Loss-on-ignition	GEOSPEC 3: 2001 Test 9.2 (excluding Cl. 9.2.8a) GEOSPEC 3: 2017 Test 9.2 (excluding Cl. 9.2.8a)
	Water-soluble chloride content	GEOSPEC 3: 2001 Test 9.4 (excluding Cl. 9.4.8a) GEOSPEC 3: 2017 Test 9.4 (excluding Cl. 9.4.8a)
	pH value	GEOSPEC 3: 2001 Test 9.5 (excluding Cl. 9.5.8a) GEOSPEC 3: 2017 Test 9.5 (excluding Cl. 9.5.8a)
Steel (chemical analysis) -Carbon steel and low alloy steel	Elemental composition: - Carbon Sulphur Phosphorus Nitrogen Copper Manganese Chromium Molybdenum Vanadium Nickel	In-house method CHM 8.4 (Spark-OES)
	Nitrogen	BS EN ISO 15351:2010
	Carbon Sulphur	In-house method CHM 8.6 (Carbon sulphur analyser)
	Carbon equivalent value	In-house method CHM 8.4 (by calculation)

Civil Engineering and Development Department - Public Works Laboratories
土木工程拓展署 – 工務試驗所
Public Works Regional Laboratory (Tai Po) 工務區域試驗所(大埔)
J/O Ting Kok Road and Nam Wan Road, Tai Po, New Territories, Hong Kong
香港新界大埔汀角路與南運路交匯處

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Aggregates	Particle size distribution	CS3: 2013 Section 10 (by sieve analysis)
	Flakiness index	CS3: 2013 Section 11
	Elongation index	CS3: 2013 Section 12
	Ten per cent fines value	CS3: 2013 Section 16
	Particle density and water absorption	CS3: 2013 Section 17
	Moisture content	CS3: 2013 Section 18
	Compaction fraction value of aggregates for granular bed	General Specification for Civil Engineering Works (2006) Vol. 1 App. 5.2 General Specification for Civil Engineering Works (2020) Vol. 1 App. 5.2

Civil Engineering and Development Department - Public Works Laboratories
土木工程拓展署 – 工務試驗所
Public Works Regional Laboratory (Tai Po) 工務區域試驗所(大埔)
J/O Ting Kok Road and Nam Wan Road, Tai Po, New Territories, Hong Kong
香港新界大埔汀角路與南運路交匯處

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Bituminous materials	Bitumen content of bituminous paving materials by ignition method	ASTM D6307-98 ASTM D6307-05 ASTM D6307-16
	Bulk specific gravity and density of compacted bituminous mixtures using automatic vacuum sealing method	ASTM D6752-11 with modifications ASTM D6752/D6752M-18 with modification
	Bulk specific gravity and density of non-absorptive compacted bituminous mixtures	ASTM D2726-96a ASTM D2726-14/D2726M-14 with modifications
	Mechanical size analysis of extracted aggregates	ASTM D5444-98 with modifications ASTM D5444-15 with modifications
	Polymer modified binder content of bituminous paving materials by combination of both centrifuge and ignition method	ASTM D2172-95 Method A & ASTM D6307-98 ASTM D2172-95 Method A & ASTM D6307-05 ASTM D2172/D2172M-17 Method A & ASTM D6307-16 Particular Specification for Highways Department Guidance Notes on Road Surface Requirements for Expressways and High Speed Roads RD/GD/032 (Jun 2007) App. B
	Percentage air voids in compacted dense bituminous paving mixtures	ASTM D3203-94 ASTM D3203-11 ASTM D3203/D3203M-17
	Quantitative extraction of bitumen from bituminous paving mixtures	ASTM D2172-95 Method A (by centrifuge extractor) ASTM D2172/D2172M-17 Method A (by centrifuge extractor)
	Sieve analysis of fine and coarse aggregates and materials finer than 75 micron sieve in mineral aggregates by washing	ASTM C117-95 Procedure B with modifications ASTM C117-13 Procedure B with modifications ASTM C136-96a with modifications ASTM C136/C136M-14 with modifications
	Sieve analysis of mineral filler for asphalt paving mixtures	ASTM D546-17 with modifications
	Theoretical maximum specific gravity and density of bituminous paving mixtures	ASTM D2041-95 with modifications (Weighing in water method) ASTM D2041/D2041M-11 (Weighing in water method)
	Thickness or height of compacted asphalt mixture specimens	ASTM D3549/D3549M-17

Civil Engineering and Development Department - Public Works Laboratories
土木工程拓展署 – 工務試驗所
Public Works Regional Laboratory (Tai Po) 工務區域試驗所(大埔)
J/O Ting Kok Road and Nam Wan Road, Tai Po, New Territories, Hong Kong
香港新界大埔汀角路與南運路交匯處

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Bituminous materials (cont'd)	Viscosity of asphalt binder using rotational viscometer	AASHTO T316-06 with modification AASHTO T316-13 (2017) with modification
Blocks and Bricks	Dimensions of concrete kerbs	BS EN 1340: 2003 Annex C
	Bending strength of concrete kerbs	BS EN 1340: 2003 Annex F
Coating	Dry-thin coating thickness by magnetic method	BS EN ISO 2178: 2016
Concrete	Curing of test specimens	CS1: 2010 Section 10
	Compressive strength of concrete cubes in the force range 50 kN – 2000 kN (including cement grout cubes)	CS1: 2010 Section 12
	Compressive strength of concrete cores in the force range 50 kN – 2000 kN	CS1: 2010 Section 15
	Density of hardened concrete	CS1: 2010 Section 16
Soil (Phase I)	Moisture content by oven-drying at 45˚C ± 5˚C	GEOSPEC 3: 2001 Test 5.1 GEOSPEC 3: 2017 Test 5.1
	Moisture content by oven-drying at 105˚C ± 5˚C	GEOSPEC 3: 2001 Test 5.2 GEOSPEC 3: 2001 Test 5.2 with modifications (PWLTM No. SOL 2.18 by infrared oven-drying) GEOSPEC 3: 2017 Test 5.2 GEOSPEC 3: 2017 Test 5.2 with modifications (PWLTM No. SOL 2.18 by infrared oven-drying)
	Comparative test for the determination of moisture content by oven-drying	GEOSPEC 3: 2001 Test 5.3 GEOSPEC 3: 2017 Test 5.3
	Liquid limit, plastic limit, and plasticity index	GEOSPEC 3 : 2001 Test 6.1 GEOSPEC 3 : 2017 Test 6.1
	Liquidity index	GEOSPEC 3: 2001 Test 6.2 GEOSPEC 3: 2017 Test 6.2

Civil Engineering and Development Department - Public Works Laboratories
土木工程拓展署 – 工務試驗所
Public Works Regional Laboratory (Tai Po) 工務區域試驗所(大埔)
J/O Ting Kok Road and Nam Wan Road, Tai Po, New Territories, Hong Kong
香港新界大埔汀角路與南運路交匯處

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Soil (Phase I) (cont'd)	Particle size distribution by wet sieving (with dispersant)	GEOSPEC 3: 2001 Test 8.1 GEOSPEC 3: 2017 Test 8.1
	Particle size distribution by wet sieving (without dispersant)	GEOSPEC 3: 2001 Test 8.2 GEOSPEC 3: 2017 Test 8.2
	Particle size distribution by hydrometer (with dispersant)	GEOSPEC 3: 2001 Test 8.5 GEOSPEC 3: 2017 Test 8.5
	Particle size distribution by hydrometer (without dispersant)	GEOSPEC 3: 2001 Test 8.6 GEOSPEC 3: 2017 Test 8.6
	Construction of a continuous particle size distribution curve from the results of wet-sieving and sedimentation tests	GEOSPEC 3: 2001 Test 8.7 GEOSPEC 3: 2017 Test 8.7
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a 1000cc mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.1 GEOSPEC 3: 2017 Test 10.1
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a 1000cc mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.2 GEOSPEC 3: 2017 Test 10.2
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a CBR mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.3 GEOSPEC 3: 2017 Test 10.3
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a CBR mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.4 GEOSPEC 3: 2017 Test 10.4
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a 1000cc mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.5 GEOSPEC 3: 2017 Test 10.5

Civil Engineering and Development Department - Public Works Laboratories
土木工程拓展署 – 工務試驗所
Public Works Regional Laboratory (Tai Po) 工務區域試驗所(大埔)
J/O Ting Kok Road and Nam Wan Road, Tai Po, New Territories, Hong Kong
香港新界大埔汀角路與南運路交匯處

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Soil (Phase I) (cont'd)	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a 1000cc mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.6 GEOSPEC 3: 2017 Test 10.6
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a CBR mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.7 GEOSPEC 3: 2017 Test 10.7
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a CBR mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.8 GEOSPEC 3: 2017 Test 10.8
	In-situ bulk density and in-situ dry density of soils by the sand replacement method suitable for fine- and medium-grained soils (with small pouring cylinder)	GEOSPEC 3: 2001 Test 11.1 GEOSPEC 3: 2017 Test 11.1
	In-situ bulk density and in-situ dry density of soils by the sand replacement method suitable for fine-, medium-, and coarse-grained soils (with large pouring cylinder)	GEOSPEC 3: 2001 Test 11.2 GEOSPEC 3: 2017 Test 11.2
	Relative compaction of fill material	GEOSPEC 3: 2001 Test 11.4 GEOSPEC 3: 2017 Test 11.4
	Particle size distribution of fill materials	GEOSPEC 3: 2017 Test 8.1 & General Specification for Civil Engineering Works (2006) Cl. 6.72(3) GEOSPEC 3: 2017 Test 8.2 & General Specification for Civil Engineering Works (2006) Cl. 6.72(3)

Civil Engineering and Development Department - Public Works Laboratories
土木工程拓展署 – 工務試驗所
Public Works Regional Laboratory (Tin Shui Wai) 工務區域試驗所(天水圍)
Tin Ying Road, Ha Tsuen, Yuen Long, New Territories, Hong Kong
香港新界元朗廈村天影路

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Aggregates	Particle size distribution	CS3: 2013 Section 10 (Sieve analysis)
	Flakiness index	CS3: 2013 Section 11
	Elongation index	CS3: 2013 Section 12
	Los Angeles value	CS3: 2013 Section 14
	Impact value	CS3: 2013 Section 15
	Ten per cent fines	CS3: 2013 Section 16
	Particle density and water absorption	CS3: 2013 Section 17
	Moisture content	CS3: 2013 Section 18
	Soundness	CS3: 2013 Section 19
	Compaction fraction value of aggregates for granular bed	General Specification for Civil Engineering Works (2006) Vol. 1 App. 5.2 General Specification for Civil Engineering Works (2020) Vol. 1 App. 5.2
Bituminous materials	Bulk specific gravity and density of compacted bituminous mixtures using automatic vacuum sealing method	ASTM D6752-11 with modifications
	Percentage air voids in compacted dense bituminous paving mixtures	ASTM D3203-11
	Sieve analysis of mineral filler for asphalt paving mixtures	ASTM D546-17 with modifications
Blocks and Bricks	Dimensions of concrete kerbs	BS EN 1340: 2003 Annex C
	Bending strength of concrete kerbs	BS EN 1340: 2003 Annex F
Coating	Dry-thin coating thickness by magnetic method	BS EN ISO 2178: 2016

Civil Engineering and Development Department - Public Works Laboratories
土木工程拓展署 – 工務試驗所
Public Works Regional Laboratory (Tin Shui Wai) 工務區域試驗所(天水圍)
Tin Ying Road, Ha Tsuen, Yuen Long, New Territories, Hong Kong
香港新界元朗廈村天影路

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Concrete	Curing of test specimens	CS1: 2010 Section 10
	Compressive strength of concrete cubes in the force range 50 kN – 2000 kN	CS1: 2010 Section 12
	Tensile splitting strength of cylindrical specimens	CS1: 2010 Section 13
	Compressive strength of concrete cores in the force range 50 kN – 2000 kN	CS1: 2010 Section 15
	Density of hardened concrete	CS1: 2010 Section 16

Civil Engineering and Development Department - Public Works Laboratories
土木工程拓展署 – 工務試驗所
Public Works Regional Laboratory (Tin Shui Wai) 工務區域試驗所(天水圍)
Tin Ying Road, Ha Tsuen, Yuen Long, New Territories, Hong Kong
香港新界元朗廈村天影路

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Soil (Phase I)	Moisture content by oven-drying at 45˚C ± 5˚C	GEOSPEC 3: 2001 Test 5.1 GEOSPEC 3: 2017 Test 5.1
	Moisture content by oven-drying at 105˚C ± 5˚C	GEOSPEC 3: 2001 Test 5.2 GEOSPEC 3: 2001 Test 5.2 with modifications (PWLTM No. SOL 2.18 by infrared oven-drying) GEOSPEC 3: 2017 Test 5.2 GEOSPEC 3: 2017 Test 5.2 with modifications (PWLTM No. SOL 2.18 by infrared oven-drying)
	Comparative test for the determination of moisture content by oven-drying	GEOSPEC 3: 2001 Test 5.3 GEOSPEC 3: 2017 Test 5.3
	Determination of liquid limit, plastic limit, and plasticity index	GEOSPEC 3: 2001 Test 6.1 GEOSPEC 3: 2017 Test 6.1
	Determination of liquidity index	GEOSPEC 3: 2001 Test 6.2 GEOSPEC 3: 2017 Test 6.2
	Particle size distribution by wet sieving (with dispersant)	GEOSPEC 3: 2001 Test 8.1 GEOSPEC 3: 2017 Test 8.1
	Particle size distribution by wet sieving (without dispersant)	GEOSPEC 3: 2001 Test 8.2 GEOSPEC 3: 2017 Test 8.2
	Particle size distribution by hydrometer (with dispersant)	GEOSPEC 3: 2001 Test 8.5 GEOSPEC 3: 2017 Test 8.5
	Particle size distribution by hydrometer (without dispersant)	GEOSPEC 3: 2001 Test 8.6 GEOSPEC 3: 2017 Test 8.6
	Construction of a continuous particle size distribution curve from the results of wet-sieving and sedimentation tests	GEOSPEC 3: 2001 Test 8.7 GEOSPEC 3: 2017 Test 8.7
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a 1000cc mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.1 GEOSPEC 3: 2017 Test 10.1

Civil Engineering and Development Department - Public Works Laboratories
土木工程拓展署 – 工務試驗所
Public Works Regional Laboratory (Tin Shui Wai) 工務區域試驗所(天水圍)
Tin Ying Road, Ha Tsuen, Yuen Long, New Territories, Hong Kong
香港新界元朗廈村天影路

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Soil (Phase I) (cont'd)	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a 1000cc mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.2 GEOSPEC 3: 2017 Test 10.2
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a CBR mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.3 GEOSPEC 3: 2017 Test 10.3
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a CBR mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.4 GEOSPEC 3: 2017 Test 10.4
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a 1000cc mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.5 GEOSPEC 3: 2017 Test 10.5
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a 1000cc mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.6 GEOSPEC 3: 2017 Test 10.6
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a CBR mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.7 GEOSPEC 3: 2017 Test 10.7
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a CBR mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.8 GEOSPEC 3: 2017 Test 10.8
	In-situ bulk density and in-situ dry density of soils by the sand replacement method suitable for fine- and medium-grained soils (with small pouring cylinder)	GEOSPEC 3: 2001 Test 11.1 GEOSPEC 3: 2017 Test 11.1

Civil Engineering and Development Department - Public Works Laboratories
土木工程拓展署 – 工務試驗所
Public Works Regional Laboratory (Tin Shui Wai) 工務區域試驗所(天水圍)
Tin Ying Road, Ha Tsuen, Yuen Long, New Territories, Hong Kong
香港新界元朗廈村天影路

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Soil (Phase I) (cont'd)	In-situ bulk density and in-situ dry density of soils by the sand replacement method suitable for fine-, medium-, and coarse-grained soils (with large pouring cylinder)	GEOSPEC 3: 2001 Test 11.2 GEOSPEC 3: 2017 Test 11.2
	Relative compaction of fill material	GEOSPEC 3: 2001 Test 11.4 GEOSPEC 3: 2017 Test 11.4
	Particle size distribution of fill materials	GEOSPEC 3: 2017 Test 8.1 & General Specification for Civil Engineering Works (2006) Cl. 6.72(3) GEOSPEC 3: 2017 Test 8.2 & General Specification for Civil Engineering Works (2006) Cl. 6.72(3)

Civil Engineering and Development Department - Public Works Laboratories
土木工程拓展署 – 工務試驗所
Public Works Regional Laboratory (North Lantau) 工務區域試驗所(北大嶼山)
Cheung Tung Road, Siu Ho Wan, Lantau Island, New Territories, Hong Kong
香港新界大嶼山小蠔灣翔東路

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Aggregates	Particle size distribution	CS3: 2013 Section 10 (Sieve analysis)
	Flakiness index	CS3: 2013 Section 11
	Elongation index	CS3: 2013 Section 12
	Ten per cent fines value	CS3: 2013 Section 16
	Particle density and water absorption	CS3: 2013 Section 17
	Moisture content	CS3: 2013 Section 18
	Soundness	CS3: 2013 Section 19
	Compaction fraction value of aggregates for granular bed	General Specification for Civil Engineering Works (2006) Vol. 1 App. 5.2 General Specification for Civil Engineering Works (2020) Vol. 1 App. 5.2

Civil Engineering and Development Department - Public Works Laboratories
土木工程拓展署 – 工務試驗所
Public Works Regional Laboratory (North Lantau) 工務區域試驗所(北大嶼山)
Cheung Tung Road, Siu Ho Wan, Lantau Island, New Territories, Hong Kong
香港新界大嶼山小蠔灣翔東路

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Bituminous materials	Bitumen content of bituminous paving materials by ignition method	ASTM D6307-98 ASTM D6307-05 ASTM D6307-16
	Bulk specific gravity and density of compacted bituminous mixtures using automatic vacuum sealing method	ASTM D6752-11 with modifications ASTM D6752/D6752M-18 with modification
	Bulk specific gravity and density of non-absorptive compacted bituminous mixtures	ASTM D2726-96a ASTM D2726/D2726M-14 with modifications
	Mechanical size analysis of extracted aggregates	ASTM D5444-98 with modifications ASTM D5444-15 with modifications
	Polymer modified binder content of bituminous paving materials by combination of both centrifuge and ignition method	ASTM D2172-95 Method A & ASTM D6307-98 ASTM D2172-95 Method A & ASTM D6307-05 ASTM D2172/D2172M-17 Method A & ASTM D6307-16 Particular Specification for Highways Department Guidance Notes on Road Surface Requirements for Expressways and High Speed Roads RD/GD/032 (Jun 2007) App. B
	Percentage air voids in compacted dense bituminous paving mixtures	ASTM D3203-94 ASTM D3203-11 ASTM D3203/D3203M-17
	Quantitative extraction of bitumen from bituminous paving mixtures	ASTM D2172-95 Method A (By centrifuge extractor) ASTM D2172/D2172M-17 Method A (By centrifuge extractor)
	Sieve analysis of fine and coarse aggregates and materials finer than 75 micron sieve in mineral aggregates by washing	ASTM C117-95 Procedure B with modifications ASTM C117-13 Procedure B with modifications ASTM C136-96a with modifications ASTM C136/C136M-14 with modifications
	Sieve analysis of mineral filler for asphalt paving mixtures	ASTM D546-17 with modifications
	Theoretical maximum specific gravity and density of bituminous paving mixtures	ASTM D2041-95 with modifications (weighing in water method) ASTM D2041/D2041M-11 (Weighing in water method)
	Thickness or height of compacted asphalt mixture specimens	ASTM D3549/D3549M-17

Civil Engineering and Development Department - Public Works Laboratories
土木工程拓展署 – 工務試驗所
Public Works Regional Laboratory (North Lantau) 工務區域試驗所(北大嶼山)
Cheung Tung Road, Siu Ho Wan, Lantau Island, New Territories, Hong Kong
香港新界大嶼山小蠔灣翔東路

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Bituminous materials (cont'd)	Viscosity of asphalt binder using rotational viscometer	AASHTO T316-06 with modification AASHTO T316-13 (2017) with modification
Concrete	Curing of test specimens	CS1: 2010 Section 10
	Compressive strength of concrete cubes in the force range 50 kN – 2000 kN	CS1: 2010 Section 12
	Density of hardened concrete	CS1: 2010 Section 16
Soil (Phase I)	Moisture content by oven-drying at 45˚C ± 5˚C	GEOSPEC 3: 2001 Test 5.1 GEOSPEC 3: 2017 Test 5.1
	Moisture content by oven-drying at 105˚C ± 5˚C	GEOSPEC 3: 2001 Test 5.2 GEOSPEC 3: 2001 Test 5.2 with modifications (PWLTM No. SOL 2.18 by infrared oven-drying) GEOSPEC 3: 2017 Test 5.2 GEOSPEC 3: 2017 Test 5.2 with modifications (PWLTM No. SOL 2.18 by infrared oven-drying)
	Comparative test for the determination of moisture content by oven-drying	GEOSPEC 3: 2001 Test 5.3 GEOSPEC 3: 2017 Test 5.3
	Determination of liquid limit, plastic limit, and plasticity index	GEOSPEC 3: 2001 Test 6.1 GEOSPEC 3: 2017 Test 6.1
	Determination of liquidity index	GEOSPEC 3: 2001 Test 6.2 GEOSPEC 3: 2017 Test 6.2
	Particle size distribution by wet sieving (with dispersant)	GEOSPEC 3: 2001 Test 8.1 GEOSPEC 3: 2017 Test 8.1
	Particle size distribution by wet sieving (without dispersant)	GEOSPEC 3: 2001 Test 8.2 GEOSPEC 3: 2017 Test 8.2
	Particle size distribution by hydrometer (with dispersant)	GEOSPEC 3: 2001 Test 8.5 GEOSPEC 3: 2017 Test 8.5
	Particle size distribution by hydrometer (without dispersant)	GEOSPEC 3: 2001 Test 8.6 GEOSPEC 3: 2017 Test 8.6

Civil Engineering and Development Department - Public Works Laboratories
土木工程拓展署 – 工務試驗所
Public Works Regional Laboratory (North Lantau) 工務區域試驗所(北大嶼山)
Cheung Tung Road, Siu Ho Wan, Lantau Island, New Territories, Hong Kong
香港新界大嶼山小蠔灣翔東路

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Soil (Phase I) (cont'd)	Construction of a continuous particle size distribution curve from the results of wet-sieving and sedimentation tests	GEOSPEC 3: 2001 Test 8.7 GEOSPEC 3: 2017 Test 8.7
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a 1000cc mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.1 GEOSPEC 3: 2017 Test 10.1
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a 1000cc mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.2 GEOSPEC 3: 2017 Test 10.2
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a CBR mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.3 GEOSPEC 3: 2017 Test 10.3
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a CBR mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.4 GEOSPEC 3: 2017 Test 10.4
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a 1000cc mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.5 GEOSPEC 3: 2017 Test 10.5
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a 1000cc mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.6 GEOSPEC 3: 2017 Test 10.6

Civil Engineering and Development Department - Public Works Laboratories
土木工程拓展署 – 工務試驗所
Public Works Regional Laboratory (North Lantau) 工務區域試驗所(北大嶼山)
Cheung Tung Road, Siu Ho Wan, Lantau Island, New Territories, Hong Kong
香港新界大嶼山小蠔灣翔東路

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Soil (Phase I) (cont'd)	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a CBR mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.7 GEOSPEC 3: 2017 Test 10.7
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a CBR mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.8 GEOSPEC 3: 2017 Test 10.8
	In situ bulk density and in situ dry density of soils by the sand replacement method suitable for fine- and medium-grained soils (with small pouring cylinder)	GEOSPEC 3: 2001 Test 11.1 GEOSPEC 3: 2017 Test 11.1
	In situ bulk density and in situ dry density of soils by the sand replacement method suitable for fine-, medium-, and coarse-grained soils (with large pouring cylinder)	GEOSPEC 3: 2001 Test 11.2 GEOSPEC 3: 2017 Test 11.2
	Relative compaction of fill material	GEOSPEC 3: 2001 Test 11.4 GEOSPEC 3: 2017 Test 11.4
	Particle size distribution of fill materials	GEOSPEC 3: 2017 Test 8.1 & General Specification for Civil Engineering Works (2006) Cl. 6.72(3) GEOSPEC 3: 2017 Test 8.2 & General Specification for Civil Engineering Works (2006) Cl. 6.72(3)

Civil Engineering and Development Department - Public Works Laboratories
土木工程拓展署 – 工務試驗所
Public Works Regional Laboratory (Kowloon) 工務區域試驗所(九龍)
Lok Wah Street, Tsz Wan Shan, Kowloon
九龍慈雲山樂華街

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Aggregates	Particle size distribution	CS3: 2013 Section 10 (by sieve analysis)
	Flakiness index	CS3: 2013 Section 11
	Elongation index	CS3: 2013 Section 12
	Ten per cent fines value	CS3: 2013 Section 16
	Moisture content	CS3: 2013 Section 18
	Compaction fraction value of aggregates for granular bed	General Specification for Civil Engineering Works (2006) Vol. 1 App. 5.2 General Specification for Civil Engineering Works (2020) Vol. 1 App. 5.2

Civil Engineering and Development Department - Public Works Laboratories
土木工程拓展署 – 工務試驗所
Public Works Regional Laboratory (Kowloon) 工務區域試驗所(九龍)
Lok Wah Street, Tsz Wan Shan, Kowloon
九龍慈雲山樂華街

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Bituminous materials	Bitumen content of bituminous paving materials by ignition method	ASTM D6307-98 ASTM D6307-05 ASTM D6307-16
	Bulk specific gravity and density of compacted bituminous mixtures using automatic vacuum sealing method	ASTM D6752-11 with modifications ASTM D6752/D6752M-18 with modification
	Bulk specific gravity and density of non-absorptive compacted bituminous mixtures	ASTM D2726-96a ASTM D2726/D2726M-14 with modifications
	Mechanical size analysis of extracted aggregates	ASTM D5444-98 with modifications ASTM D5444-15 with modifications
	Polymer modified binder content of bituminous paving materials by combination of both centrifuge and ignition method	ASTM D2172-95 Method A & ASTM D6307-98 ASTM D2172-95 Method A & ASTM D6307-05 ASTM D2172/D2172M-17 Method A & ASTM D6307-16 Particular Specification for Highways Department Guidance Notes on Road Surface Requirements for Expressways and High Speed Roads RD/GD/032 (Jun 2007) App. B
	Percentage air voids in compacted dense bituminous paving mixtures	ASTM D3203-94 ASTM D3203-11 ASTM D3203/D3203M-17
	Quantitative extraction of bitumen from bituminous paving mixtures	ASTM D2172-95 Method A (by centrifuge extractor) ASTM D2172/D2172M-17 Method A (by centrifuge extractor)
	Sieve analysis of fine and coarse aggregates and materials finer than 75 micron sieve in mineral aggregates by washing	ASTM C117-95 Procedure B with modifications ASTM C117-13 Procedure B with modifications ASTM C136-96a with modifications ASTM C136/C136M-14 with modifications
	Sieve analysis of mineral filler for asphalt paving mixtures	ASTM D546-17 with modifications
	Theoretical maximum specific gravity and density of bituminous paving mixtures	ASTM D2041-95 with modifications (Weighing in water method) ASTM D2041/D2041M-11 (Weighing in water method)
	Thickness or height of compacted asphalt mixture specimens	ASTM D3549/D3549M-17

Civil Engineering and Development Department - Public Works Laboratories
土木工程拓展署 – 工務試驗所
Public Works Regional Laboratory (Kowloon) 工務區域試驗所(九龍)
Lok Wah Street, Tsz Wan Shan, Kowloon
九龍慈雲山樂華街

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Bituminous materials (cont'd)	Viscosity of asphalt binder using rotational viscometer	AASHTO T316-06 with modification AASHTO T316-13 (2017) with modification
Concrete	Curing of test specimens	CS1: 2010 Section 10
	Compressive strength of concrete cubes in the force range 50 kN - 2000 kN	CS1: 2010 Section 12
	Density of hardened concrete	CS1: 2010 Section 16
Soil (Phase I)	Moisture content by oven-drying at 45˚C ± 5˚C	GEOSPEC 3: 2001 Test 5.1 GEOSPEC 3: 2017 Test 5.1
	Moisture content by oven-drying at 105˚C ± 5˚C	GEOSPEC 3: 2001 Test 5.2 GEOSPEC 3: 2001 Test 5.2 with modifications (PWLTM No. SOL 2.18 by infrared oven-drying) GEOSPEC 3: 2017 Test 5.2 GEOSPEC 3: 2017 Test 5.2 with modifications (PWLTM No. SOL 2.18 by infrared oven-drying)
	Comparative test for the determination of moisture content by oven-drying	GEOSPEC 3: 2001 Test 5.3 GEOSPEC 3: 2017 Test 5.3
	Liquid limit, plastic limit, and plasticity index	GEOSPEC 3: 2001 Test 6.1 GEOSPEC 3: 2017 Test 6.1
	Liquidity index	GEOSPEC 3: 2001 Test 6.2 GEOSPEC 3: 2017 Test 6.2
	Particle size distribution by wet sieving (with dispersant)	GEOSPEC 3: 2001 Test 8.1 GEOSPEC 3: 2017 Test 8.1
	Particle size distribution by wet sieving (without dispersant)	GEOSPEC 3: 2001 Test 8.2 GEOSPEC 3: 2017 Test 8.2
	Particle size distribution by hydrometer (with dispersant)	GEOSPEC 3: 2001 Test 8.5 GEOSPEC 3: 2017 Test 8.5
	Particle size distribution by hydrometer (without dispersant)	GEOSPEC 3: 2001 Test 8.6 GEOSPEC 3: 2017 Test 8.6

Civil Engineering and Development Department - Public Works Laboratories
土木工程拓展署 – 工務試驗所
Public Works Regional Laboratory (Kowloon) 工務區域試驗所(九龍)
Lok Wah Street, Tsz Wan Shan, Kowloon
九龍慈雲山樂華街

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Soil (Phase I) (cont'd)	Construction of a continuous particle size distribution curve from the results of wet-sieving and sedimentation tests	GEOSPEC 3 : 2001 Test 8.7 GEOSPEC 3 : 2017 Test 8.7
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a 1000cc mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.1 GEOSPEC 3: 2017 Test 10.1
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a 1000cc mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.2 GEOSPEC 3: 2017 Test 10.2
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a CBR mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.3 GEOSPEC 3: 2017 Test 10.3
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a CBR mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.4 GEOSPEC 3: 2017 Test 10.4
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a 1000cc mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.5 GEOSPEC 3: 2017 Test 10.5
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a 1000cc mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.6 GEOSPEC 3: 2017 Test 10.6
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a CBR mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.7 GEOSPEC 3: 2017 Test 10.7
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a CBR mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.8 GEOSPEC 3: 2017 Test 10.8

Civil Engineering and Development Department - Public Works Laboratories
土木工程拓展署 – 工務試驗所
Public Works Regional Laboratory (Kowloon) 工務區域試驗所(九龍)
Lok Wah Street, Tsz Wan Shan, Kowloon
九龍慈雲山樂華街

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Soil (Phase I) (cont'd)	In situ bulk density and in situ dry density of soils by the sand replacement method suitable for fine- and medium-grained soils (with small pouring cylinder)	GEOSPEC 3: 2001 Test 11.1 GEOSPEC 3: 2017 Test 11.1
	In situ bulk density and in situ dry density of soils by the sand replacement method suitable for fine-, medium-, and coarse-grained soils (with large pouring cylinder)	GEOSPEC 3: 2001 Test 11.2 GEOSPEC 3: 2017 Test 11.2
	Relative compaction of fill material	GEOSPEC 3: 2001 Test 11.4 GEOSPEC 3: 2017 Test 11.4
	Particle size distribution of fill materials	GEOSPEC 3: 2017 Test 8.1 & General Specification for Civil Engineering Works (2006) Cl. 6.72(3) GEOSPEC 3: 2017 Test 8.2 & General Specification for Civil Engineering Works (2006) Cl. 6.72(3)

Civil Engineering and Development Department - Public Works Laboratories
土木工程拓展署 – 工務試驗所
Public Works Regional Laboratory (Sham Shui Kok) 工務區域試驗所(深水角)
No. 550 Cheung Tung Road, Siu Ho Wan, Lantau Island, New Territories, Hong Kong
香港新界大嶼山小蠔灣翔東路 550 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Aggregates	Particle size distribution	CS3: 2013 Section 10 (by sieve analysis)
	Flakiness index	CS3: 2013 Section 11
	Elongation index	CS3: 2013 Section 12
	Ten per cent fines value	CS3: 2013 Section 16
	Particle density and water absorption	CS3: 2013 Section 17
	Moisture content	CS3: 2013 Section 18
	Compaction fraction value of aggregates for granular bed	General Specification for Civil Engineering Works (2006) Vol. 1 App. 5.2 General Specification for Civil Engineering Works (2020) Vol. 1 App. 5.2
Bituminous materials	Bitumen content of bituminous paving materials by ignition method	ASTM D6307-98 ASTM D6307-05 ASTM D6307-16
	Bulk specific gravity and density of compacted bituminous mixtures using automatic vacuum sealing method	ASTM D6752-11 with modifications ASTM D6752/D6752M-18 with modification
	Bulk specific gravity and density of non-absorptive compacted bituminous mixtures	ASTM D2726-96a ASTM D2726/D2726M-14 with modifications
	Mechanical size analysis of extracted aggregates	ASTM D5444-98 with modifications ASTM D5444-15 with modifications
	Polymer modified binder content of bituminous paving materials by combination of both centrifuge and ignition method	ASTM D2172-95 Method A & ASTM D6307-98 ASTM D2172-95 Method A & ASTM D6307-05 ASTM D2172/D2172M-17 Method A & ASTM D6307-16 Particular Specification for Highways Department Guidance Notes on Road Surface Requirements for Expressways and High Speed Roads RD/GD/032 (Jun 2007) App. B

Civil Engineering and Development Department - Public Works Laboratories
土木工程拓展署 – 工務試驗所
Public Works Regional Laboratory (Sham Shui Kok) 工務區域試驗所(深水角)
No. 550 Cheung Tung Road, Siu Ho Wan, Lantau Island, New Territories, Hong Kong
香港新界大嶼山小蠔灣翔東路 550 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Bituminous materials (cont'd)	Percentage air voids in compacted dense bituminous paving mixtures	ASTM D3203-94 ASTM D3203-11 ASTM D3203/D3203M-17
	Quantitative extraction of bitumen from bituminous paving mixtures	ASTM D2172-95 Method A (by centrifuge extractor) ASTM D2172/D2172M-17 Method A (by centrifuge extractor)
	Sieve analysis of fine and coarse aggregates and materials finer than 75 micron sieve in mineral aggregates by washing	ASTM C117-95 Procedure B with modifications ASTM C117-13 Procedure B with modifications ASTM C136-96a with modifications ASTM C136/C136-14 with modifications
	Sieve analysis of mineral filler for asphalt paving mixtures	ASTM D546-17 with modifications
	Theoretical maximum specific gravity and density of bituminous paving mixtures	ASTM D2041-95 with modifications (Weighing in water method) ASTM D2041/D2041M-11 (Weighing in water method)
	Thickness or height of compacted asphalt mixture specimens	ASTM D3549/D3549M-17
	Viscosity of asphalt binder using rotational viscometer	AASHTO T316-06 AASHTO T316-06 with modification AASHTO T316-13 (2017) AASHTO T316-13 (2017) with modification
Bituminous materials (pure bitumen)	Flash point using cleveland open cup tester	AASHTO T48-06
	Effect of heat and air on a moving film of asphalt (rolling thin-film oven test)	AASHTO T240-09
	Rheological properties of asphalt binder using a dynamic shear rheometer (DSR)	AASHTO T315-09
Coating	Dry-thin coating thickness by magnetic method	BS EN ISO 2178: 2016

Civil Engineering and Development Department - Public Works Laboratories
土木工程拓展署 – 工務試驗所
Public Works Regional Laboratory (Sham Shui Kok) 工務區域試驗所(深水角)
No. 550 Cheung Tung Road, Siu Ho Wan, Lantau Island, New Territories, Hong Kong
香港新界大嶼山小蠔灣翔東路 550 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Concrete	Curing of test specimens	CS1: 2010 Section 10
	Compressive strength of concrete cubes in the force range 50 kN - 2000 kN (including cement grout cubes)	CS1: 2010 Section 12
	Tensile splitting strength of cylindrical specimens	CS1: 2010 Section 13
	Compressive strength of concrete cores in the force range 50 kN - 2000 kN	CS1: 2010 Section 15
	Density of hardened concrete	CS1: 2010 Section 16
Metallic Materials	Bond property of steel reinforcing bars by surface geometry measurement	CS2: 2012 (Rev. 6) Cl. 6.1 & 6.7.2 CS2: 2012 (Rev. 6) Cl. 6.1 & 6.7.2 with modification
	Mass per meter of steel reinforcing bars	CS2: 2012 (Rev. 6) Cl. 6.1 & 6.2
	Rebend test of steel reinforcing bars for reinforcement of concrete	CS2: 2012 (Rev. 6) Cl. 6.1 & 6.5
	Tensile test of steel reinforcing bars for reinforcement of concrete in the force range 20 kN – 1800 kN	BS EN ISO 6892-1: 2009 Cl. 10.4 Method B in conjunction with the following specification: CS2: 2012 (Rev. 6) Cl. 6.1 & 6.4 CS2: 2012 (Rev. 6) Cl. 6.1 & 6.4 with modification

Civil Engineering and Development Department - Public Works Laboratories
土木工程拓展署 – 工務試驗所
Public Works Regional Laboratory (Sham Shui Kok) 工務區域試驗所(深水角)
No. 550 Cheung Tung Road, Siu Ho Wan, Lantau Island, New Territories, Hong Kong
香港新界大嶼山小蠔灣翔東路 550 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Soil (Phase I)	Moisture content by oven-drying at 45˚C ± 5˚C	GEOSPEC 3: 2001 Test 5.1 GEOSPEC 3: 2017 Test 5.1
	Moisture content by oven-drying at 105˚C ± 5˚C	GEOSPEC 3: 2001 Test 5.2 GEOSPEC 3: 2001 Test 5.2 with modifications (PWLTM No. SOL 2.18 by infrared oven-drying) GEOSPEC 3: 2017 Test 5.2 GEOSPEC 3: 2017 Test 5.2 with modifications (PWLTM No. SOL 2.18 by infrared oven-drying)
	Comparative test for the determination of moisture content by oven-drying	GEOSPEC 3: 2001 Test 5.3 GEOSPEC 3: 2017 Test 5.3
	Liquid limit, plastic limit, and plasticity index	GEOSPEC 3 : 2001 Test 6.1 GEOSPEC 3 : 2017 Test 6.1
	Liquidity index	GEOSPEC 3: 2001 Test 6.2 GEOSPEC 3: 2017 Test 6.2
	Particle size distribution by wet sieving (with dispersant)	GEOSPEC 3: 2001 Test 8.1 GEOSPEC 3: 2017 Test 8.1
	Particle size distribution by wet sieving (without dispersant)	GEOSPEC 3: 2001 Test 8.2 GEOSPEC 3: 2017 Test 8.2
	Particle size distribution by hydrometer (with dispersant)	GEOSPEC 3: 2001 Test 8.5 GEOSPEC 3: 2017 Test 8.5
	Particle size distribution by hydrometer (without dispersant)	GEOSPEC 3: 2001 Test 8.6 GEOSPEC 3: 2017 Test 8.6
	Construction of a continuous particle size distribution curve from the results of wet-sieving and sedimentation tests	GEOSPEC 3: 2001 Test 8.7 GEOSPEC 3: 2017 Test 8.7
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a 1000cc mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.1 GEOSPEC 3: 2017 Test 10.1
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a 1000cc mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.2 GEOSPEC 3: 2017 Test 10.2

Civil Engineering and Development Department - Public Works Laboratories
土木工程拓展署 – 工務試驗所
Public Works Regional Laboratory (Sham Shui Kok) 工務區域試驗所(深水角)
No. 550 Cheung Tung Road, Siu Ho Wan, Lantau Island, New Territories, Hong Kong
香港新界大嶼山小蠔灣翔東路 550 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Soil (Phase I) (cont'd)	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a CBR mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.3 GEOSPEC 3: 2017 Test 10.3
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a CBR mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.4 GEOSPEC 3: 2017 Test 10.4
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a 1000cc mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.5 GEOSPEC 3: 2017 Test 10.5
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a 1000cc mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.6 GEOSPEC 3: 2017 Test 10.6
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a CBR mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.7 GEOSPEC 3: 2017 Test 10.7
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a CBR mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.8 GEOSPEC 3: 2017 Test 10.8
	In-situ bulk density and in-situ dry density of soils by the sand replacement method suitable for fine- and medium-grained soils (with small pouring cylinder)	GEOSPEC 3: 2001 Test 11.1 GEOSPEC 3: 2017 Test 11.1
	In-situ bulk density and in-situ dry density of soils by the sand replacement method suitable for fine-, medium-, and coarse-grained soils (with large pouring cylinder)	GEOSPEC 3: 2001 Test 11.2 GEOSPEC 3: 2017 Test 11.2

Civil Engineering and Development Department - Public Works Laboratories
土木工程拓展署 – 工務試驗所
Public Works Regional Laboratory (Sham Shui Kok) 工務區域試驗所(深水角)
No. 550 Cheung Tung Road, Siu Ho Wan, Lantau Island, New Territories, Hong Kong
香港新界大嶼山小蠔灣翔東路 550 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Soil (Phase I) (cont'd)	Relative compaction of fill material	GEOSPEC 3: 2001 Test 11.4 GEOSPEC 3: 2017 Test 11.4
	Particle size distribution of fill materials	GEOSPEC 3: 2017 Test 8.1 & General Specification for Civil Engineering Works (2006) Cl. 6.72(3) GEOSPEC 3: 2017 Test 8.2 & General Specification for Civil Engineering Works (2006) Cl. 6.72(3)

Concrete Services Limited
混凝土力有限公司

ADDRESS 地址	:	G/F-2, Tower 2, Harbour Centre, No. 8 Hok Cheung Street, Hunghom, Kowloon, Hong Kong 香港九龍紅磡鶴翔街八號維港中心二座地下-2
ENQUIRY 查詢	:	Mr Sam YIP Wing-sum, General Manager 葉穎森先生，總經理
TELEPHONE 電話	:	2363 1422
FAX 傳真	:	2766 1501
E-MAIL 電郵	:	sam.yip@concrete.hk
CLIENTELE 服務對象	:	Public 公眾

Contact details last updated on: 29 May 2015

Concrete Services Limited
混凝土力有限公司

ADDRESS **地址**	:	G/F-2, Tower 2, Harbour Centre, No. 8 Hok Cheung Street, Hunghom, Kowloon, Hong Kong 香港九龍紅磡鶴翔街八號維港中心二座地下-2
ACCREDITED TEST CATEGORY **認可測試類別**	:	Construction Materials 建築材料

Concrete Services Limited
混凝土力有限公司
G/F-2, Tower 2, Harbour Centre, No. 8 Hok Cheung Street, Hunghom, Kowloon, Hong Kong
香港九龍紅磡鶴翔街八號維港中心二座地下-2

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Aggregate	Methylene blue value	CS3: 2013 Section 13
Concrete	Sampling fresh concrete on site	CS1: 2010 Section 1
	Slump of fresh concrete	CS1: 2010 Section 2 Part I
	Compacting factor of fresh concrete	CS1: 2010 Section 2 Part II
	Flow table test	CS1: 2010 Section 2 Part IV
	Slump flow test	CS1: 2010 Section 2 Part V
	Stiffening time of fresh concrete	CS1: 2010 Section 3
	Density of compacted fresh concrete	CS1: 2010 Section 5
	Air content of fresh concrete	CS1: 2010 Section 6
	Making test cubes from fresh concrete	CS1: 2010 Section 7
	Making test beams from fresh concrete	CS1: 2010 Section 8
	Making test cylinders from fresh concrete	CS1: 2010 Section 9
	Curing of test specimens	CS1: 2010 Section 10
	Compressive strength of concrete cubes in the force range 60 kN - 3000 kN	CS1: 2010 Section 12
	Density of hardened concrete	CS1: 2010 Section 16
	Bleeding test	ASTM C232-92 Method A
	L box test for self-compacting concrete	BS EN 12350-10: 2010 excluding Cl. 5
	Determination of temperature of fresh concrete	BS 5328: Part 4: 1990 Cl. 3.4(b)
Concrete (diagnostic)	Surface hardness measurement	BS 1881: Part 202: 1986 Cl. 6 BS EN 12504-2: 2021
Grout	Flow of grout for preplaced- aggregate concrete (flow cone method)	ASTM C939-10

Hong Kong Testing Company Limited
香港試驗有限公司

ADDRESS 地址	:	Room 205, 2/F, Fuk Shing Commercial Building, 28 On Lok Mun Street, On Lok Tsuen, Fanling, New Territories, Hong Kong 香港新界粉嶺安樂村安樂門街28號福成商業大廈二樓205室
ENQUIRY 查詢	:	Mr NG Kai-leung, Laboratory Manager 吳啟良先生，經理
TELEPHONE 電話	:	2692 2171
FAX 傳真	:	2691 4874
E-MAIL 電郵	:	info@hktesting.com.hk testhk@netvigator.com
CLIENTELE 服務對象	:	Public 公眾

Hong Kong Testing Company Limited
香港試驗有限公司

ADDRESS
地址

Main Laboratory	:	Room 205, 2/F, Fuk Shing Commercial Building, 28 On Lok Mun Street, On Lok Tsuen, Fanling, New Territories, Hong Kong 香港新界粉嶺安樂村安樂門街28號福成商業大廈二樓205室
Branch Laboratory	:	G/F, Fuk Shing Commercial Building, 28 On Lok Mun Street, On Lok Tsuen, Fanling, New Territories, Hong Kong 香港新界粉嶺安樂村安樂門街 28 號福成商業大廈地下
ACCREDITED TEST CATEGORIES **認可測試類別**	:	Calibration Services 校正服務 Construction Materials 建築材料 Environmental Testing 環境測試

Hong Kong Testing Company Limited
香港試驗有限公司
Room 205, 2/F, Fuk Shing Commercial Building, 28 On Lok Mun Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安樂門街 28 號福成商業大廈二樓 205 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Construction materials testing equipment		
- Compacting bar	Verification in accordance with in-house method CAL-FSH-0102 for the dimensional and mass requirements as specified in CS1: 2010 Vol. 1 App. A10	
	Dimensions of ramming face: 25 mm x 25 mm	0.05 mm
	Length: 380 mm	0.1 mm
	Mass: 1.8 kg	1 g
- Concrete test cube mould	Verification in accordance with in-house method CAL-FSH-0303 for the dimensional requirements as specified in CS1: 2010 Vol. 1 App. A25	
	Dimensions: 100 mm or 150 mm	0.04 mm
	Flatness: not more than 0.03 mm or 0.06 mm	0.01 mm
	Perpendicularity: 0.5 mm	0.05 mm
	Parallelism: 1 mm	0.05 mm
- Curing tank	On-site verification for following parameters in accordance with in-house method CAL-CON-0102 for requirements in CS1: 2010 Vol. 1 App. A28	
	Temperature distribution at range of (27 ± 3) ℃	0.3 K
	Efficiency of circulation	1 min

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Hong Kong Testing Company Limited
香港試驗有限公司
Room 205, 2/F, Fuk Shing Commercial Building, 28 On Lok Mun Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安樂門街 28 號福成商業大廈二樓 205 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Construction materials testing equipment (cont'd)		
- Slump cone	Verification in accordance with in-house method CAL-FSH-0202 for the dimensional requirements as specified in CS1: 2010 Vol. 1 App. A5	
	Internal diameter of top: 100 mm	0.12 mm
	Internal diameter of base: 200 mm	0.12 mm
	Wall thickness: minimum 1.5 mm	0.12 mm
	Height of cone: 300 mm	0.10 mm
- Tamping rod	Verification in accordance with in-house method CAL-FSH-0202 for the dimensional requirements as specified in CS1: 2010: Vol. 1 App. A6	
	Diameter of rod: 16 mm	0.1 mm
	Length of rod: 600 mm	0.1 mm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Hong Kong Testing Company Limited
香港試驗有限公司
Room 205, 2/F, Fuk Shing Commercial Building, 28 On Lok Mun Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安樂門街 28 號福成商業大廈二樓 205 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related measurements - Force measurements - Concrete testing machine	On-site calibration for compressive force using grade 1.0 load cells and verification of grade in accordance with BS 1610: Part 1: 1992, or CS1: 1990 Vol.2 App. D (constant true force method for above two standards) over the following range :	
	5 kN to 3000 kN	0.6 % of reading
	On-site calibration for compressive force using Class 1 load cells and verification of class in accordance with BS EN 12390-4: 2000 Annex B and Table 1, or CS1: 2010 Vol. 2 App. D (constant true force method for above two standards) over the following range :	
	5 kN to 3000 kN	0.6 % of reading
	On-site verification for strain ratio by performing strain gauged column and proving test (stability test) in accordance with BS 1881: Part 115: 1986 (Amd. 6536), or BS EN 12390-4: 2000 Annex A and Table 3, or CS1: 1990 Vol. 2 App. D, or CS1: 2010 Vol. 2 App. D over the following range of compressive force:	
	200 kN to 2000 kN	0.03 strain ratio
- Universal testing machine in compression mode	On-site calibration for compressive force using Grade 1.0 load cells and verification of grade true force method in accordance with BS 1610: Part 1: 1985, or CS1: 1990 App. D (constant true force method for above two standards) over the following range :	
	5 kN to 3000 kN	0.6 % of reading

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Hong Kong Testing Company Limited
香港試驗有限公司
Room 205, 2/F, Fuk Shing Commercial Building, 28 On Lok Mun Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安樂門街 28 號福成商業大廈二樓 205 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Adhesives	Pull-off test of repair mortar	Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance & Building Materials Specification Part D Cl. 2.1.15 Method 1 (by coring method) Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance & Building Materials Specification Part D Cl. 2.1.15 Method 1 with modification (by coring method) In-house method MTS-PHY-0102 (by saw-cutting method)
	Pull-off test of tiles	In-house method MIS-PHY-0101 (saw-cutting method) In-house method MIS-PHY-0102 (by coring method)
Admixtures (Chemical analysis)	Acid-soluble alkali content (equivalent Na_2O)	In-house Method CON-CHM-1201
	Ash content	BS 5075: Part 1: 1982 (Amd. 4910) App. D.2
	Chloride ion content	BS 5075: Part 1: 1982 (Amd. 4910) App. E
	Dry material content	BS 5075: Part 1: 1982 (Amd. 4910) App. D.1
	Relative density (of liquid admixture)	BS 5075: Part 1: 1982 (Amd. 4910) App. D.3
Aggregates	Sampling	BS 812: Part: 102: 1989 CS3: 2013 Section 8
	Particle size distribution	BS 812: Section 103.1: 1985 + Amd. 6003 (by sieve analysis) CS3: 2013 Section 10 + Amd. 1/2013 (by sieve analysis)
	Flakiness index	BS 812: Section 105.1: 1985 BS 812: Section 105.1: 1989 CS3: 2013 Section 11
	Elongation index	BS 812: Section 105.2: 1990 CS3: 2013 Section 12
	Methylene blue value	CS3: 2013 Section 13

Hong Kong Testing Company Limited
香港試驗有限公司
Room 205, 2/F, Fuk Shing Commercial Building, 28 On Lok Mun Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安樂門街 28 號福成商業大廈二樓 205 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Aggregates (cont'd)	Los Angeles value	CS3: 2013 Section 14
	Aggregate impact value	BS 812: Part 112: 1990 + Amd. 8772 CS3: 2013 Section 15
	Ten per cent fines value	BS 812: Part 111: 1990 CS3: 2013 Section 16
	Particle densities and water absorption	BS 812: Part 2: 1995 + Amd. 1 & 2 (Wire basket method, Gas jar method and Pycnometer method) CS3: 2013 Section 17
	Moisture content	BS 812: Part 109: 1990 (by oven drying method) CS3: 2013 Section 18 (by oven drying method)
	Soundness	BS 812: Part 121: 1989 CS3: 2013 Section 19
	Drying shrinkage	CS3: 2013 Section 20
	Effect of organic substances by mortar method	CS3: 2013 Section 22 + Amd. 1/2016
	Alkali silica reaction potential by ultra-accelerated mortar bar test	CS1: 2010 Section 22 + Amd. 1/2013
	Aggregate crushing value	BS 812: Part 110: 1990
	Bulk density, voids and bulking	BS 812: Part 2: 1975 + Amd. 4615
	Clay, silt and dust content	BS 812: Part 1: 1975 + Amd. 4572 (by decantation method)
	Resistance to degradation of small size coarse aggregate by abrasion and impact in the Los Angeles Machine	ASTM C131-96 ASTM C131-96 with modifications
	Resistance to degradation of large size coarse aggregate by abrasion and impact in the Los Angeles Machine	ASTM C535-96
	Shell content in coarse aggregates	BS 812: Part 106: 1985

Hong Kong Testing Company Limited
香港試驗有限公司
Room 205, 2/F, Fuk Shing Commercial Building, 28 On Lok Mun Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安樂門街 28 號福成商業大廈二樓 205 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Aggregates (Chemical analysis)	Total sulphate content (acid extraction)	BS 812: Part 118: 1988 Cl. 6 *Excluding* Cl. 4
	Total sulphur content	CS3: 2013 Section 21.6
	Water-soluble sulphate content	BS 812: Part 118: 1988 Cl. 5 *Excluding* Cl. 4
	Acid-soluble sulphate content	CS3: 2013 Section 21.5
	Water-soluble chloride salts	BS 812: Part 117: 1988 BS 812: Part 4: 1976 BS EN 1744-1: 2009+A1: 2012 Cl.7 *Excluding* Cl. 7.2
	Water-soluble chloride ion content	CS3: 2013 Section 21.3
	Acid-soluble chloride ion content	CS3: 2013 Section 21.4
	Presence of humus	CS3: 2013 Section 21.7
	Acid-soluble material	BS 812: Part 119: 1985 *Excluding* Cl. 4
	Soluble calcium oxide content	HKHA MTS (97/99) Specification Part D 1.4.9
	Soluble silica content	HKHA MTS (97/99) Specification Part D 1.4.9

Hong Kong Testing Company Limited
香港試驗有限公司
Room 205, 2/F, Fuk Shing Commercial Building, 28 On Lok Mun Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安樂門街 28 號福成商業大廈二樓 205 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Bituminous materials	Bitumen content of bituminous paving materials by ignition method	ASTM D6307-98 ASTM D6307-05 ASTM D6307-16
	Bulk specific gravity and density of compacted bituminous mixtures using automatic vacuum sealing method	ASTM D6752/D6752M-11 ASTM D6752/D6752M-11 with modifications ASTM D6752/D6752M-17 ASTM D6752/D6752M-17 with modifications ASTM D6752/D6752M-18 ASTM D6752/D6752M-18 with modifications
	Bulk specific gravity and density of compacted bituminous mixtures using coated specimen	ASTM D1188-96 (Reapproved 2002)
	Bulk specific gravity and density of non-absorptive compacted bituminous mixtures	ASTM D2726-96a ASTM D2726-14/D2726M-14
	Mechanical size analysis of extracted aggregates	ASTM D5444-08 ASTM D5444-15 with modifications
	Percentage air voids in compacted dense bituminous paving mixtures	ASTM D3203-94 ASTM D3203-11 ASTM D3203/D3203M-17
	Polymer modified binder content and particle size distribution of polymer modified friction course and cushion course materials by centrifuge method and ignition method.	ASTM C117-95 and ASTM C136-96a with modification Particular Specification for Highways Department Guidance Notes on Road Surface Requirements for Expressways and High Speed Roads RD/GN/032 (Jun 2007 App. B)
	Quantitative extraction of bitumen from bituminous paving mixtures	ASTM D2172-95 (Method A using ashing method) ASTM D2172/D2172M-17 Method A (By centrifuge extractor)

Hong Kong Testing Company Limited
香港試驗有限公司
Room 205, 2/F, Fuk Shing Commercial Building, 28 On Lok Mun Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安樂門街 28 號福成商業大廈二樓 205 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Bituminous materials (cont'd)	Sieve analysis of fine and coarse aggregates and materials finer than 75 micron sieve in mineral aggregates by washing	ASTM C117-95 Procedure B and ASTM C136-84a with modifications ASTM C117-95 Procedure B and ASTM C136-95a with modifications ASTM C117-95 Procedure B and ASTM C136-96a with modifications ASTM C117-13 Procedure B with modifications and ASTM C136-14 with modifications
	Sieve analysis of mineral fillers for asphalt paving mixtures	ASTM D546-17
	Theoretical maximum specific gravity and density of bituminous paving mixtures	ASTM D2041-95 with modifications (Weighing in water method) ASTM D2041/D2041M-11 with modifications (Weighing in water method)
	Thickness or height of compacted asphalt mixture specimens	ASTM D3549-93a (excluding Cl. 6.2 & 6.3) ASTM D3549/D3549M-17
	Viscosity of asphalt binder using a rotational viscometer	AASHTO T316-06 with modifications AASHTO T316-13 (2017) with modifications

Hong Kong Testing Company Limited
香港試驗有限公司
Room 205, 2/F, Fuk Shing Commercial Building, 28 On Lok Mun Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安樂門街 28 號福成商業大廈二樓 205 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Blocks and bricks	Bending strength of paving flags	BS EN 1339: 2003 + Corr. 1: 2006 Annex F in conjunction with the following specification(s): General Specification for Civil Engineering Works (2020) Vol. 1 Cl. 11.84 (3)
	Dimensions of clay and calcium silicate pavers	BS 6677: Part 1: 1986 App. A & C BS EN 1344: 2002 Annex B Highway Department Specification for Clay Pavers and Clay Paving Setts (2008)
	Dimensions of natural stone setts	BS EN 1342: 2001 Annex A
	Dimensions of natural stone slabs	BS EN 1341: 2001 Annex A Highways Department Specification for Natural Granite Pavers and Miscellaneous Items (2008)
	Dimensions of paving blocks	BS 6717: 2001 Annex B BS EN 1338: 2003 Annex C: C.1 - C.3 in conjunction with the following specification(s): General Specification for Civil Engineering Works (2006) Vol. 1 Cl. 11.86 (4) General Specification for Civil Engineering Works (2020) Vol. 1 Cl. 11.86 (4)
	Dimensions of paving flags	BS 7263: Part 1: 2001 Annex B BS EN 1339: 2003 Annex C General Specification for Civil Engineering Works (2006) Vol. 1 Cl. 11.86 (4) General Specification for Civil Engineering Works (2020) Vol. 1 Cl. 11.86 (4)
	Unpolished slip/skid resistance value of clay pavers	BS EN 1344: 2002 Annex F General Specification for Civil Engineering Works (2006) Vol. 1 Cl. 11.87 (4) & (5) Highway Department Specification for Clay Pavers and Clay Paving Setts (2008)
	Unpolished slip/skid resistance of natural stone slabs	BS EN 1341: 2001 Annex D BS EN 1342: 2001 Annex C Highways Department Specification for Natural Granite Pavers and Miscellaneous Items (2008)

Hong Kong Testing Company Limited
香港試驗有限公司
G/F, Fuk Shing Commercial Building, 28 On Lok Mun Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安樂門街 28 號福成商業大廈地下

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Blocks and bricks (cont'd)	Water absorption of masonry units and segmental pavers	AS/NZS 4456.14: 2003 General Specification for Civil Engineering Works (2006) Vol. 1 Cl. 11.88 General Specification for Civil Engineering Works (2020) Vol. 1 Cl. 11.88 Highway Department Specification for Clay Pavers and Clay Paving Setts (2008) Highways Department Specification for Natural Granite Pavers and Miscellaneous Items (2008)
	Wet pendulum test for slip resistance	AS 4586-2013 App. A
	Compressive strength of paving blocks	General Specification for Civil Engineering Works (2006) Vol. 1 App. 11.1 General Specification for Civil Engineering Works (2020) Vol. 1 App. 11.1
	Flexural strength & breaking load of natural stone slabs	BS EN 12372: 2006 in conjunction with the following specification: BS EN 1341: 2001 Annex B Highways Department Specification for Natural Granite Pavers and Miscellaneous Items (2008)
	Transverse breaking load of clay and calcium silicate pavers	BS 6677: Part 1: 1986 App. D
	Transverse breaking load of clay pavers	BS EN 1344: 2002 Annex D Highway Department Specification for Clay Pavers and Clay Paving Setts (2008)
	Transverse breaking load of natural granite pavers	Highways Department Specification for Natural Granite Pavers and Miscellaneous Items (2008)

Hong Kong Testing Company Limited
香港試驗有限公司
Room 205, 2/F, Fuk Shing Commercial Building, 28 On Lok Mun Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安樂門街 28 號福成商業大廈二樓 205 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Cement & Portland pulverized fuel ash cement (PPFAC)	Compressive strength of broken mortar prisms in the force range 2 kN - 300 kN	BS EN 196-1: 1995
	Density	BS EN 196-6: 1992 Annex NC
	Fineness	BS EN 196-6: 1992 (by Blaine Method)
	Flexural strength of mortar prisms in the force range 1 kN – 30 kN	BS EN 196-1: 1995
	Setting times	BS EN 196-3: 1995
	Soundness	BS EN 196-3: 1995
	Standard consistence	BS EN 196-3: 1995

Hong Kong Testing Company Limited
香港試驗有限公司
Room 205, 2/F, Fuk Shing Commercial Building, 28 On Lok Mun Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安樂門街 28 號福成商業大廈二樓 205 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Cement (Chemical analysis)	Alumina content (Al_2O_3)	BS 4550: Part 2: 1970 Cl. 7.2
	Insoluble residue content	BS 4550: Part 2: 1970 Cl. 3.1
	Residue insoluble in hydrochloric acid and sodium carbonate	BSEN196-2: 1995 Cl. 9
	Iron oxide content (Fe_2O_3)	BS 4550: Part 2: 1970 Cl. 8
	Lime saturation factor	BS 12: 1978 Cl. 6.1
	Loss-on-ignition (L.O.I.)	BS 4550: Part 2: 1970 Cl. 13.2 BS EN 196-2: 1995 Cl. 7
	Magnesia content (MgO)	In-house Method CEM-CHM-0301
	Sulphuric anhydride (SO_3)	BS 4550: Part 2: 1970 Cl. 10
	Sulphate content (as SO_3)	BS EN 196-2: 1995 Cl. 8
	Total calcium oxide content (CaO)	In-house Method CEM-CHM-0201
	Total silica content (SiO_2)	BS 4550: Part 2: 1970 Cl. 4.2
	Chloride content	BS 4550: Part 2: 1970 (Amd. 5713) BS EN 196-21: 1992 Cl. 4
	Tricalcium aluminate content (C_3A)	BS 12: 1989 Cl. 8.4
	Heat of hydration	BS 4550: Part 3: Section 3.8: 1978 with modification
	Acid-soluble alkali content (equivalent Na_2O)	In-house method CON-CHM-1101
	Alkali content (equivalent Na_2O)	In-house method CON-CHM-1105

Hong Kong Testing Company Limited
香港試驗有限公司
Room 205, 2/F, Fuk Shing Commercial Building, 28 On Lok Mun Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安樂門街 28 號福成商業大廈二樓 205 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Coating	Pull-off test of coating in the force range 1 kN - 50 kN	In-house method MIS-PHY-0201 (by cutting method) In-house method MIS-PHY-0202 (by coring method)
Concrete (diagnostic)	Carbonation test	Building Research Establishment Information Paper IP 6/81 BS EN 14630: 2006
	Covermeter survey	BS 1881: Part 204: 1988
	Half-cell potential measurement	ASTM C876-91
	Surface hardness measurement	BS 1881: Part 202: 1986 Cl. 6 BS EN 12504-2: 2012 BS EN 12504-2: 2021
Concrete (Chemical analysis)	Acid-soluble alkali content (equivalent Na_2O)	In-house method CON-CHM-1001
	Aggregate / cement ratio	BS 1881: Part 124: 1988 Cl. 5.9
	Cement and aggregate content (by CaO determination)	BS 1881: Part 124: 1988 Cl. 5.4 & 5.9 CS1: 1990 Section 21.6 CS1: 2010 Section 21.6
	Chloride ion content	BS 1881: Part 124: 1988 Cl. 10.2 CS1: 1990 Section 21.10.2 (Amd. 1201) CS1: 2010 Section 21.10.2
	Detection of PFA	In-house method CON-CHM-1501
	Sulphate content	BS 1881: Part 124: 1988 Cl. 10.3 CS1: 1990 Section 21.10.3 CS1: 2010 Section 21.10.3
	pH value	In-house method CON-CHM-0801
	Original water content (as original total water/cement ratio)	BS 1881: Part 124: 1988 Cl. 7 CS1: 1990 Section 21.7 CS1: 2010 Section 21.7

Hong Kong Testing Company Limited
香港試驗有限公司
Room 205, 2/F, Fuk Shing Commercial Building, 28 On Lok Mun Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安樂門街 28 號福成商業大廈二樓 205 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Concrete	Assessment of the cement, aggregate and water content of fresh concrete	In-house method FSH-PHY-1001 DD 83: 1983 Section 3 Cl. 5
	Bleeding test	ASTM C232-99 Method A ASTM C232 / C232M-09 Method A
	Sampling fresh concrete on site	BS 1881: Part 101: 1983 CS1: 2010 Section 1
	Slump of fresh concrete	CS1: 2010 Section 2 Part I
	Compaction factor of fresh concrete	CS1: 2010 Section 2 Part II
	Flow table test	CS1: 2010 Section 2 Part IV
	Slump flow test	CS1: 2010 Section 2 Part V
	Stiffening time of fresh concrete	CS1: 2010 Section 3
	Density of compacted fresh concrete	CS1: 2010 Section 5
	Making test cubes from fresh concrete	CS1: 2010 Section 7
	Making test beams from fresh concrete	CS1: 2010 Section 8
	Making test cylinders from fresh concrete	CS1: 2010 Section 9
	Obtaining core samples	Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance & Building Materials Specification Part D Cl. 6.1
	Removal of concrete cover to expose reinforcement	Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance & Building Materials Specification Part D Cl. 4.2.1

Hong Kong Testing Company Limited
香港試驗有限公司
G/F, Fuk Shing Commercial Building, 28 On Lok Mun Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安樂門街 28 號福成商業大廈地下

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Concrete (cont'd)	Curing of test specimens (Tropical zone temperature)	BS 1881: Part 111: 1983 CS1: 2010 Section 10
	Compressive strength of concrete cubes in the force range 50 kN - 3000 kN	BS 1881: Part 116: 1983 CS1: 2010 Section 12
	Tensile splitting strength of cylinders in the force range 20 kN – 3000 kN	CS1: 2010 Section 13
	Flexural strength of concrete test beams in the force range 5 kN – 100 kN	CS1: 2010 Section 14
	Compressive strength of concrete cores in the force range 50 kN - 3000 kN	BS 1881: Part 120: 1983 CS1: 2010 Section 15
	Density of hardened concrete	BS 1881: Part 114: 1983 Section 6 + Amd. 6098 CS1: 2010 Section 16
	Water absorption	BS 1881: Part 122: 1983
Dimension stones	Compressive strength	ASTM C170-90 (Reapproved 1999) ASTM C170/C170M-15a
	Flexural strength	ASTM C880-98 ASTM C880/C880M-15
	Strength of individual stone anchorages	ASTM C1354-96 (Reapproved 2004) ASTM C1354/C1354M-15

Hong Kong Testing Company Limited
香港試驗有限公司
Room 205, 2/F, Fuk Shing Commercial Building, 28 On Lok Mun Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安樂門街 28 號福成商業大廈二樓 205 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Dimension stones	Absorption and bulk specific gravity	ASTM C97-02 ASTM C97/C97M-15
Foundation	Plate load test (PLT)	BS 1377: Part 9: 1990 + Amd. No.1 Cl. 4.1 (incremental loading) Buildings Department Code of Practice for Foundations (Apr 2017) Cl. 8.2(2) excluding 8.2(2)(f) to (h)
Ground granulated blastfurnace slag (GGBS)	Activity index	BS EN 196-1: 2005 in conjunction with the following specification: BS EN 15167-1: 2006 Cl. 5.3.2.3
	Compressive strength of broken mortar prism in the force range 20 kN – 250 kN	BS EN 196-1: 1995
	Density	BS EN 196-6: 1992 Annex NC in conjunction with the following specification: BS EN 15167-1: 2006 Cl. 5.5g
	Fineness	BS EN 196-6: 1992 (by Blaine Method) in conjunction with the following specification: BS EN 15167-1: 2006 Cl. 5.3.1
	Flexural strength of mortar prism in the force range 1 kN – 25 kN	BS EN 196-1: 1995
	Initial setting time	BS EN 196-3: 1995 in conjunction with the following specification: BS EN 15167-1: 2006 Cl. 5.3.2.2
	Moisture content	BS EN 15167-1: 2006 Annex A (Oven drying method)
	Standard consistence	BS EN 196-3: 1995
Ground water (Chemical analysis)	pH value	GEOSPEC 3: 2001 Test 9.5
	Sulphate content	GEOSPEC 3:2001 Test 9.3

Hong Kong Testing Company Limited
香港試驗有限公司
Room 205, 2/F, Fuk Shing Commercial Building, 28 On Lok Mun Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安樂門街 28 號福成商業大廈二樓 205 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Grout	Bleeding and free expansion	ASTM C940-89 ASTM C940-98a General Specification for Civil Engineering Works (2006) Vol.1 Cl. 7.160 & Vol.2 Cl. 17.60
	Flow of grout for pre-placed aggregate concrete (flow cone method)	ASTM C939-94a ASTM C939/C939M-16a
Metallic materials	Bond property of steel reinforcing bars by surface geometry measurement	BS EN ISO 15630-1: 2002 Cl. 10, 11.2 & 11.3 CS2: 2012 (Rev. 6) Cl. 6.1 & 6.7.2 in conjunction with the following specification(s): BS 4449: 2005 + A2: 2009 Cl. 7.4 & 9 BS 4482: 2005 + Amd. 1 Cl. 7.4.2

Hong Kong Testing Company Limited
香港試驗有限公司
G/F, Fuk Shing Commercial Building, 28 On Lok Mun Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安樂門街 28 號福成商業大廈地下

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Metallic materials (cont'd)	Bend test of carbon steel bars	BS 4449: 1988 Cl. 10.2 Building Ordinance Office PNAP 122 (Jul 1994) CS2: 1995 Cl. 6.1 & 6.3
	Charpy V-notch impact test	BS EN 10045-1: 1990 in conjunction with the following specification(s): BS EN 10025-1: 2004 Cl. 10.2.2 BS EN 10025-2: 2004 Cl. 10.2 & Table 9 BS EN 10025-4: 2004 Cl. 10.2, Table 6 & 7 BS EN 10210-1: 2006 Cl. 6.6.2, 9.2.3, Table A.3 & B.3 BS EN 10219-1: 2006 Cl. 6.7.2, 9.2.3, Table A.3, B.4 & B.5
	Mass per metre square unit area, pitch and dimension of steel fabrics for reinforcement of concrete	BS EN ISO 15630-1: 2002 Cl. 12 in conjunction with the following specification(s): BS 4483: 2005 Cl. 7.3, 8.1.3.2 & BS 4449: 2005 Cl. 7.3
	Mass per metre of steel reinforcing bars	BS 4449: 2005 + A2: 2009 Cl. 7.3 CS2: 2012 (Rev. 6) Cl. 6.1 & 6.2
	Rebend test of carbon steel bars	BS 4449: 1988 Cl. 10.3 Building Ordinance Office PNAP 122 (Jul 1994) CS2: 1995 Cl. 6.1 & 6.4
	Rebend test of reinforcing bars, wire rods, welded fabrics or cold reduced wires for reinforcement of concrete	BS EN ISO 15630-1: 2002 Cl. 7 CS2: 2012 (Rev. 6) Cl. 6.1 & 6.5 in conjunction with the following specification(s): BS 4449: 2005 + A2: 2009 Cl. 7.2.5 BS 4482: 1985 Cl. 12.2 & App. C.5 with modification BS 4483: 1985 Cl. 12.1 BS 4483: 1998 Cl. 13.1 BS 4483: 2005 Cl. 7.2.5 & 8.1.3.2
	Static tension test, static compression test, cyclic tension & compression tests for mechanical connector systems (Type 2 Splice) for steel reinforcing bars in the force range 12 kN - 2000 kN	ICC Evaluation Service, Inc. AC133 (Approved May 2008, Effective 1 Jun 2008) Cl. 4.1.2 ICC Evaluation Service, Inc. AC133 (Approved Jan 2010, Effective 1 Jul 2010) Cl. 4.1.2 in conjunction with the following specification(s): Buildings Department Code of Practice for Structural Use of Concrete (2013) Cl. 3.2.8.4(b), (c) & (d)
	Tensile test of carbon steel bars in the force range 12 kN – 2000 kN	CS2: 1995 Cl. 6.1 & 6.2 BS 4449: 1988 Cl. 10.1 Building Ordinance Office PNAP 122 (Jul 1994)

Hong Kong Testing Company Limited
香港試驗有限公司
G/F, Fuk Shing Commercial Building, 28 On Lok Mun Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安樂門街 28 號福成商業大廈地下

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Metallic materials (cont'd)	Tensile test of metallic materials in the Force range 12 kN – 2000 kN	BS 18: 1987 in conjunction with the following specification(s): BS 4360: 1986 Cl. 23 BS EN 10002-1: 2001 BS EN ISO 6892 -1: 2009 Cl. 10.4 Method B in conjunction with the following specification(s): BS 4360: 1990 Cl. 23 BS EN 10025-1: 2004 Cl. 7.3.1, 9.2.3.2 & 10.2.1 BS EN 10025-2: 2004 Cl. 10.2 & Table 7 BS EN 10025-4: 2004 Cl. 10.2 & Table 5 BS EN 10210-1: 1994 Cl. 6.6.1, 9.2 & 9.2.1 BS EN 10219-1: 2006 Cl. 6.7.1, 9.2.1 & 9.2.2
	Tensile test of reinforcing bars, wire rods, welded fabrics or cold reduced wires for reinforcement of concrete in the force range 12 kN – 2000 kN	BS EN 10002-1: 2001 BS EN ISO 6892 -1: 2009 Cl. 10.4 Method B in conjunction with the following specification(s): BS 4449: 2005 + A2: 2009 Cl. 7.2.2, 7.2.3, 8.1.3.1 & 9 BS 4482: 1985 Cl. 12.1 & App. C.3 with modifications BS 4483: 1985 Cl. 12.1 BS 4483: 1998 Cl. 13.1 BS 4483: 2005 Cl. 7.2.2, 7.2.3, 8.1.3.1 & 9 CS2: 2012 (Rev. 6) Cl. 6.1 & 6.4

Hong Kong Testing Company Limited
香港試驗有限公司
G/F, Fuk Shing Commercial Building, 28 On Lok Mun Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安樂門街 28 號福成商業大廈地下

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Metallic materials (cont'd)	Tensile test & slip/permanent elongation test of mechanical coupler for reinforcing bar in the force range 12 kN – 2000 kN	BS EN ISO 6892-1: 2016 Cl. 10.3.3 Method B & ISO 15835-2: 2018 Cl. 5.4 excluding 5.4.4 in conjunction with the following specification(s): BS 8110: Part 1: 1985 Cl. 3.12.8.16.2 BS 8110: Part 1: 1997 Cl. 3.12.8.16.2 Buildings Department Code of Practice for Structural Use of Concrete (2004) Cl. 3.2.8.2 Buildings Department Code of Practice for Structural Use of Concrete (2013) Cl. 3.2.8.3 General Specification for Civil Engineering Works (2006) Vol. 2 Cl. 15.35 General Specification for Civil Engineering Works (2020) Vol. 2 Cl. 15.35 ISO 15835-1: 2018 Cl. 5.4.1 Option 2 & 5.4.2
	Weld shear force test of steel fabrics for reinforcement of concrete	BS EN ISO 15630-2: 2010 Cl. 7 ISO 10287: 1992 in conjunction with the following specification(s): BS 4483: 1985 Cl. 12.2 BS 4483: 1998 Cl. 13.2 BS 4483: 2005 Cl. 7.2.2 & 7.2.4

Hong Kong Testing Company Limited
香港試驗有限公司
Room 205, 2/F, Fuk Shing Commercial Building, 28 On Lok Mun Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安樂門街 28 號福成商業大廈二樓 205 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Polymer latex (Chemical analysis)	Polymer solids content	HKHA Standard 002: 1990 (modified) Cl. 2
Polymer modified mortar and prebagged materials (Chemical analysis)	Cement content and sand/cement ratio (by CaO determination)	HKHA Standard 002: 1990 (modified) Cl. 7
	CO_2 content (gasometric)	HKHA Standard 002: 1990 (modified) Cl. 7
	Polymer solids	HKHA Standard 002: 1990 (modified) Cl. 8
	Sample treatment	HKHA Standard 002: 1990 (modified) Cl. 6
Pulverized fuel ash (PFA)	Fineness	BS 3892: Part 1: 1997 Annex D
	Initial setting time	BS EN 196-3: 1995 in conjunction with the following specification(s): BS 3892: Part 1: 1997 Cl. 10 with modifications
	Moisture content	BS 3892: Part 1: 1997 Annex C
	Particle density	BS EN 196-6: 1992 Annex NC in conjunction with the following specification(s): BS 3892: Part 1: 1997 Cl. 7
	Soundness	BS EN 196-3: 1995 in conjunction with the following specification(s): BS 3892: Part 1: 1997 Cl. 11 with modifications
	Strength factor	BS 3892: Part 1: 1997 Annex F with modifications
	Water requirement	BS 3892: Part 1: 1997 Annex E BS 3892: Part 1: 1997 Annex E with modifications

Hong Kong Testing Company Limited
香港試驗有限公司
Room 205, 2/F, Fuk Shing Commercial Building, 28 On Lok Mun Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安樂門街 28 號福成商業大廈二樓 205 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Pulverized fuel ash (Chemical analysis)	Chloride	BS EN 196-21: 1992 Cl. 4
	Loss-on-ignition	BS 4550: Part 2: 1970 Cl. 13.2 BS EN 196-2: 1995 Cl. 7
	Magnesium oxide content (MgO)	BS 3892: Part 1: 1982 App. C
	Sulphuric anhydride content (SO_3)	BS 4550: Part 2: 1970 Cl. 10 BS EN 196-2: 1995 Cl. 8
	Total alkali content (equivalent Na_2O)	In-house method CON-CHM-1102
	Alkali content (equivalent Na_2O)	In-house method CON-CHM-1106
Repair mortar	Compressive strength of repair mortar cubes in the force range 50 kN - 2000 kN	Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance and Building Materials Specification Part D Cl. 2.1.1
	Flow	BS 4551: Part 1: 1998
	Obtaining inspection core samples	Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance and Building Materials Specification Part D Cl. 2.1.22

Hong Kong Testing Company Limited
香港試驗有限公司
Room 205, 2/F, Fuk Shing Commercial Building, 28 On Lok Mun Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安樂門街 28 號福成商業大廈二樓 205 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Road surfaces	Texture depth of carriageways (by sand patch test)	General Specification for Civil Engineering Works (2006) Vol. 1 App. 10.1 General Specification for Civil Engineering Works (2020) Vol. 1 App. 10.1
	Surface regularity of carriageways (by a 3 meter / rolling straightedge method)	Highways Department (Research and Development Division) Guidance Notes on Road Testing - RD/GN/009 (Sep 1989) with modification General Specification for Civil Engineering Works (2006) Vol. 1 Cl. 10.55 General Specification for Civil Engineering Works (2020) Vol. 1 Cl. 10.55
	Skid resistance of road surfaces/markings using a portable pendulum tester	BS EN 1436: 1998 + Amd. 14288 Annex D Highways Department Terms Contract Particular Specification (2010) Cl. 12.45 Highways Department (Research and Development Division) Guidance Notes on Road Testing -RD/GN/009 (Sep 1989)
	Luminance coefficient under defuse illumination (Qd) and retro-reflected luminance (RL) of road markings	BS EN 1436: 1998 + Amd. 14288 Annex A & B excluding Annex B.7 Highways Department Terms Contract Particular Specification (2010) Cl. 12.45
	Thickness of road marking materials (by micrometer method)	BS 3262: Part 3: 1989 + Amd. 8785 & 10205 App. B Highways Department Terms Contract Particular Specification (2010) Cl. 12.46
	Permeability of friction course material	General specification for Civil Engineering Works (2006) Vol. 1 App. 9.1 General specification for Civil Engineering Works (2020) Vol. 1 App. 9.1

Hong Kong Testing Company Limited
香港試驗有限公司
Room 205, 2/F, Fuk Shing Commercial Building, 28 On Lok Mun Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安樂門街 28 號福成商業大廈二樓 205 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Soil (Phase I)	Moisture content by oven-drying at 45°C ± 5°C	GEOSPEC 3: 2001 Test 5.1
	Moisture content by oven-drying at 105°C ± 5°C	GEOSPEC 3: 2001 Test 5.2
	Comparative test for the determination of moisture content by oven-drying	GEOSPEC 3: 2001 Test 5.3
	Liquid limit, plastic limit, and plasticity index	GEOSPEC 3: 2001 Test 6.1
	Liquidity index	GEOSPEC 3: 2001 Test 6.2
	Particle density by gas jar method	GEOSPEC 3: 2001 Test 7.1
	Particle density by small pyknometer method	GEOSPEC 3: 2001 Test 7.2
	Particle size distribution by wet sieving (with dispersant)	GEOSPEC 3: 2001 Test 8.1
	Particle size distribution by wet sieving (without dispersant)	GEOSPEC 3: 2001 Test 8.2
	Particle size distribution by hydrometer (with dispersant)	GEOSPEC 3: 2001 Test 8.5
	Particle size distribution by hydrometer (without dispersant)	GEOSPEC 3: 2001 Test 8.6

Hong Kong Testing Company Limited
香港試驗有限公司
Room 205, 2/F, Fuk Shing Commercial Building, 28 On Lok Mun Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安樂門街 28 號福成商業大廈二樓 205 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Soil (Phase I) (cont'd)	Construction of a continuous particle size distribution curve from the results of wet-sieving and sedimentation tests	GEOSPEC 3: 2001 Test 8.7
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a 1000cc mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.1
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a 1000cc mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.2
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a CBR mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.3
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a CBR mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.4
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a 1000cc mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.5
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a 1000cc mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.6
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a CBR mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.7
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a CBR mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.8

Hong Kong Testing Company Limited
香港試驗有限公司
Room 205, 2/F, Fuk Shing Commercial Building, 28 On Lok Mun Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安樂門街 28 號福成商業大廈二樓 205 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Soil (Phase I) (cont'd)	In-situ bulk density and in-situ dry density of soils by the sand replacement method suitable for fine- and medium-grained soils (with small pouring cylinder)	GEOSPEC 3: 2001 Test 11.1
	In-situ bulk density and in-situ dry density of soils by the sand replacement method coarse-grained soils (with large pouring cylinder)	GEOSPEC 3: 2001 Test 11.2
	In-situ bulk density and in situ dry density of soils by nuclear densometer method suitable for fine- and medium-grained soils	GEOSPEC 3: 2001 Test 11.3
	Relative compaction of fill material	GEOSPEC 3: 2001 Test 11.4
	California Bearing Ratio (CBR)	GEOSPEC 3: 2001 Test 12.1
Soil (other)	Lift-off test of ground anchors	Highways Department Specification (2004) Cl. 35.07 GEOSPEC 1: 1997 App. A.16
	Pull-out test of soil nails	CEDD Particular Specification for soil nail pull out test (Contract No. GE/2005/13) Cl. 7.227 A1
	Time Domain Reflectometry (TDR) test on soil nails	In-house method SOL-PHY-4402 GEO Guidelines on Test Procedure using Time Domain Reflectometry (TDR) to determine the length of Installed soil nails (July 2017)
Soil (Chemical analysis)	Loss-on-ignition	GEOSPEC 3: 2001 Test 9.2
	Organic matter content	GEOSPEC 3: 2001 Test 9.1
	pH value	GEOSPEC 3: 2001 Test 9.5
	Total sulphate content (asSO_3)	GEOSPEC 3: 2001 Test 9.3
	Water-soluble sulphate content (as SO_3)	GEOSPEC 3: 2001 Test 9.3
	Water-soluble chloride content	GEOSPEC 3: 2001 Test 9.4

Hong Kong Testing Company Limited
香港試驗有限公司
Room 205, 2/F, Fuk Shing Commercial Building, 28 On Lok Mun Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安樂門街 28 號福成商業大廈二樓 205 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Steel (Chemical analysis)		
- Carbon and low alloy steel	Carbon, Chromium, Copper, Manganese, Molybdenum, Nickel, Nitrogen, Phosphorus, Sulphur, Vanadium	In-house Method STL-CHM-0101 (Spark-OES)
	Carbon equivalent value (CEV)	In-house Method STL-CHM-0101 (by calculation)
- Stainless steel (304, 304L, 316 and 316L)	Carbon, Chromium, Manganese, Molybdenum, Nickel, Nitrogen, Phosphorus, Silicon, Sulphur	In-house Method STL-CHM-0102 (Spark-OES)

Hong Kong Testing Company Limited
香港試驗有限公司
Room 205, 2/F, Fuk Shing Commercial Building, 28 On Lok Mun Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安樂門街 28 號福成商業大廈二樓 205 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Structural fixings	Tensile proof load test of anchors, dowel bars, and channel inserts by incremental loading in the force range 2 kN – 200 kN	BS 5080: Part1: 1993 Cl. 6, 7.1.1 & 7.1.3 with modifications
	Tensile proof load test of drilled-in anchors used for cantilevered structure/hanger/curtain wall remedial works by incremental loading in the force range 1 kN – 600 kN	Buildings Department PNAP APP-169 (Oct 2023) App. A
	Tensile proof load test of drilled-in anchors used for works other than cantilevered structure/ hanger/curtain wall remedial works in the force range 1 kN – 600 kN	Buildings Department PNAP APP-169 (Oct 2023) App. B
	Tensile proof test of cementitious or polymer based grouted bolts or dowels or reinforcing bars works or/and steel T-bolts with cast-in channels in the force range 1 kN – 600 kN	Buildings Department PNAP APP-169 (Oct 2023) App. C
Tiles	Static coefficient of friction of ceramic tiles by horizontal dynamometer pull-meter method	ASTM C1028-96
Tile adhesives	Initial tensile adhesion strength	BS EN 1348: 2007
	Tensile adhesion strength after water immersion	BS EN 1348: 2007
	Tensile adhesion strength after heat ageing	BS EN 1348: 2007
	Tensile adhesion strength after freeze-thaw cycle	BS EN 1348: 2007
	Early tensile adhesion strength	BS EN 1348: 2007
	Open time	BS EN 1346: 2007
	Slip	BS EN 1308: 2007

Hong Kong Testing Company Limited
香港試驗有限公司
Room 205, 2/F, Fuk Shing Commercial Building, 28 On Lok Mun Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安樂門街 28 號福成商業大廈二樓 205 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Water (Chemical analysis)	Total alkalinity	APHA 18e 2320B
	Chloride content	APHA 18e 4550 Cl^-B
	pH value	In-house method WAT-CHM-0301
	Sulphate content	In-house method WAT-CHM-0401
	Acid-soluble alkali content (equivalent Na_2O)	In-house method CON-CHM-1301
	Total dissolved solids content dried at 180ºC	In-house method WAT-CHM-0501

Hong Kong Testing Company Limited
香港試驗有限公司
Room 205, 2/F, Fuk Shing Commercial Building, 28 On Lok Mun Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安樂門街 28 號福成商業大廈二樓 205 室

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Water and wastewater	Physical examination:-	
	- Total suspended solids dried at 103℃ - 105℃	APHA 17e 2540 D (Gravimetric)
	- Suspended volatile solids ignited at 550℃	APHA 17e 2540 E (Gravimetric)
	Organic pollutants:-	
	- Oil & grease	APHA 18e 5520 B Solvent (c & d) mixture (Partition & gravimetric)
	- Oxygen-demand (Biochemical)	APHA 18e 5210 B (BOD-5 days)
	- Oxygen-demand (Chemical)	APHA 18e 5220 B (Open reflux)

Fugro Technical Services Limited
輝固技術服務有限公司

ADDRESS 地址	:	Fugro Development Centre 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong 香港新界屯門大欖樂怡街五號輝固發展中心
ENQUIRY 查詢	:	Mr Joseph POON Tim-leung, Managing Director 潘添良先生，董事總經理
TELEPHONE 電話	:	2450 8233
FAX 傳真	:	2450 6138
E-MAIL 電郵	:	matlab@fugro.com
WEBSITE ADDRESS 網址	:	www.fugro.com
CLIENTELE 服務對象	:	Public 公眾

Fugro Technical Services Limited
輝固技術服務有限公司

ADDRESS
地址

Main Laboratory	:	Fugro Development Centre 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong 香港新界屯門大欖樂怡街五號輝固發展中心
Branch / Regional Laboratories	:	San Tin Branch Lab: Lot 3250-A4 RP DD104, Ha San Wai, San Tin, Yuen Long, New Territories, Hong Kong 香港新界元朗新田下新圍第 104 約，地段第 3250A 及 4RP 部份 Lot 8, Western Support Area, Three Runway System Project Site, Hong Kong International Airport, Lantau, Hong Kong 香港大嶼山香港國際機場三跑道系統項目地盤西面航空輔助設施用地 第八地段 Unit 2308-2313, 2315-2320, 23/F, Tower B, Regent Centre, 70 Ta Chuen Ping Street, Kwai Chung, New Territories, Hong Kong 香港新界葵涌打磚坪街70號麗晶中心B座23樓2308-2313, 2315-2320室
ACCREDITED TEST CATEGORY **認可測試類別**	:	Calibration Services 校正服務 Construction Materials 建築材料 Environmental Testing 環境測試

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Construction materials testing equipment		
- Cement grout flow cone	Verification in accordance with in-house procedure R-C-213 for the performance as specified in ASTM C939-97 Cl. 8	
	Time of efflux of water from cone: 8.0 s	0.05 s
- Compacting bar	Verification in accordance with in-house method R-C-216 for the following dimensional and mass requirements as specified in CS1: 1990 Vol. 1 (AMD 1102) Cl. A9; or CS1: 2010 Vol. 1 Cl. A10	
	Dimensions of ramming face: 25 mm x 25 mm	0.13 mm
	Length: 380 mm	1.5 mm
	Mass: 1.8 kg	0.05 kg

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Construction materials testing equipment (cont'd)		
- Concrete test cube mould	Verification in accordance with in-house method R-C-100 for the dimensional requirements as specified in CS1: 1990 Vol. 1 (AMD 1102) Cl. A21 <***Excluding***> A21.2(e), or CS1: 2010 Vol. 1 Cl. A25	
	Dimensions: 100 mm or 150 mm	0.03 mm
	Thickness of base plate: minimum 10 mm	0.03 mm
	Flatness: not more than 0.03 mm or 0.06 mm	0.01 mm
	Squareness / Perpendicularity: 0.5 mm	0.04 mm
	Parallelism: 1 mm	0.1 mm
- Curing tank	On-site verification for the following parameters in accordance with in-house method R-C-212 for requirements in CS1: 2010 Vol. 1 Cl. 28	
	- temperature distribution at a range of (27 ± 3) ℃	0.4 K
	- efficiency of circulation	30 s
- Engineering survey staff	Calibration for length in accordance with in-house method R-C- 253 over the following range :	
	0.1 m to 5 m	0.8 mm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Construction materials testing equipment (cont'd)		
- Furnace	On-site calibration for temperature at different locations in furnace in accordance with in-house method R-C-164 over the following ranges :	
	400 ºC to 600 ºC	3.3 K
	above 600 ºC to 1200 ºC	5.9 K
- Rebound hammer	Verification for rebound value in accordance with in-house procedure R-C-174 using anvil complying with BS EN 12504-2: 2001 Cl. 4.2	1 rebound count
- Slump cone	Verification in accordance with in-house method R-C-217 for the following dimensional requirements as specified in CS1: 1990 Vol. 1 (AMD 1102) Cl. A4; or CS1: 2010 Vol. 1 Cl. A5	
	Internal diameter of base: 200 mm	1 mm
	Internal diameter of top: 100 mm	1 mm
	Height: 300 mm	1.5 mm
	Wall thickness: minimum 1.5 mm	1.5 mm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Construction materials testing equipment (cont'd)		
- Tamping rod	Verification in accordance with in-house method R-C-215 for the following dimensional requirements as specified in CS1: 1990 Vol. 1 (AMD 1102) Cl. A5; or CS1: 2010 Vol. 1 Cl. A6	
	Diameter: 16 mm	0.08 mm
	Length: 600 mm	3 mm
- Test sieve (woven wire)	Verification in accordance with in-house procedure R-C-165 for the dimensional requirements as specified in BS 410: 1986; or BS 410-1: 2000; or ISO 3310-1: 2000	
	Aperture size: 4 mm to 125 mm	0.05 mm
	Wire diameter: 1.4 mm to 8 mm	0.05 mm
- Test sieve (perforated)	Verification in accordance with in-house procedure R-C-165 for the dimensional requirements as specified in BS 410: 1986; or BS 410-2: 2000; or ISO 3310-2: 1999	
	Hole size : 4 mm to 125 mm	4 % of the hole size
	Pitch of hole : 5.8 mm to 160 mm	3 % of the hole size
	Plate thickness : 1 mm to 3 mm	0.03 mm

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Length and related quantities - Length		
- Calliper	Calibration for length in accordance with in-house method R-C-190 over the following range :	
	1 mm to 300 mm	0.02 mm
- Coating thickness gauge	Calibration for thickness in accordance with in-house method R-C-094 over the following ranges :	
	23 μm to 100 μm	0.98 μm to 1.75 μm
	above 100 μm to 760 μm	2.46 μm to 8.37 μm
- Dial gauge	Calibration for length in accordance with in-house method R-C-187 over the following ranges :	
	0.02 mm to 12 mm	7 μm
	above 12 mm to 25 mm	9 μm
	above 25 mm to 50 mm	16 μm
	above 50 mm to 100 mm	30 μm
- Engineers' steel measuring rule	Calibration for length in accordance with in-house method R-C-185 over the following range :	
	10 mm to 1000 mm	0.3 mm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Length and related quantities (cont'd)		
- Length (cont'd)		
- External micrometer	Calibration for travel length in accordance with in-house method R-C-189 over the following ranges :	
	1 mm to 25 mm	2.4 μm
	25 mm to 50 mm	3.0 μm
- Extensometer	On-site calibration for displacement using	
- Grade D with gauge length from 25 mm to 350 mm	calibration rig and verification of grade in accordance with BS 3846: 1970 over the following range :	
	0.01 mm to 25 mm	10 μm
- Class 1 with gauge length from 25 mm to 350 mm	On-site calibration for displacement using calibration rig and verification of class in accordance with BS EN 10002-4: 1995; BS EN ISO 9513: 2002; or ISO 9513: 1999 over the following range :	
	0.01 mm to 25 mm	10 μm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Length and related quantities (cont'd) - Length (cont'd)		
- Feeler gauge	Calibration for thickness of blade in accordance with in-house method R-C-194 over the following range :	
	0.02 mm to 1.00 mm	2.6 μm
- Linear displacement measuring device	Calibration for length in accordance with in-house method R-C-192 over the following ranges :	
	1 mm to 25 mm above 25 mm to 50 mm above 50 mm to 100 mm	2 μm 3 μm 20 μm
- Micrometer head	Calibration for length in accordance with in-house method R-C-259 over the following range :	
	1 mm to 25 mm	5 μm
- Survey and GPS instruments - Optical level instrument	Calibration for height difference at a distance of 1 m to 3 m in accordance with in-house method R-C-248 over the following range :	
	1 mm to 10 mm	0.15 mm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related quantities		
- Mass		
- Electronic balance	Calibration for mass using following OIML Class standard weights (1) E2 weights from 1 mg to 200 g (2) F1 weights from 1 mg to 20 kg in accordance with in-house method R-C-082 over the following ranges :	
	1 mg to 1 g	25 µg
	above 1 g to 20 g	85 µg
	above 20 g to 100 g	250 µg
	above 100 g to 200 g	400 µg
	above 200 g to 1 kg	15 mg
	above 1 kg to 5 kg	20 mg
	above 5 kg to 10 kg	150 mg
	above 10 kg to 20 kg	200 mg
	above 20 kg to 30 kg	1200 mg
	above 30 kg to 61 kg	2900 mg
	On-site calibration for mass using following OIML Class standard weights (1) E2 weights from 1 mg to 200 g (2) F1 weights from 1 mg to 20 kg in accordance with in-house method R-C-082 over the following ranges :	
	1 mg to 1 g	25 µg
	above 1 g to 20 g	85 µg
	above 20 g to 100 g	250 µg
	above 100 g to 200 g	400 µg
	above 200 g to 1 kg	15 mg
	above 1 kg to 5 kg	20 mg
	above 5 kg to 10 kg	150 mg
	above 10 kg to 20 kg	200 mg
	above 20 kg to 30 kg	1200 mg
	above 30 kg to 61 kg	2900 mg

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities (cont'd) - Density - Nuclear densometer / nuclear density gauge	Calibration for density (direct transmission) in accordance with in-house method R-C-242 over the following range : 1100 kg/m^3 to 3000 kg/m^3	 30 kg/m^3 to 60 kg/m^3

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities (cont'd) - Force - Concrete testing machine	On-site calibration for compressive force using true force method and Grade 1.0 load cells and verification for grade in accordance with BS 1610: Part: 1: 1985; or BS 1610: Part: 1: 1992; or CS1: 1990 Vol. 2 App. D over the following range:	
	0.1 kN to 3000 kN	0.7 % of reading
	On-site calibration of compressive force using Class 1.0 load cells and verification of class in accordance with BS EN 12390-4 : 2000 (true force method); or CS1: 2010 Vol. 2 App. D over the following range :	
	0.1 kN to 3000 kN	0.7 % of reading
	On-site verification by performing strain gauged column and proving test (stability test) in accordance with in-house method R-C-180 for requirements in BS 1881: Part 115: 1986 (AMD 6536); or CS1: 1990 Vol.2 App. D; or BS EN 12390-4: 2000 Table 3 and Annex A	0.06 strain ratio

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities (cont'd) - Force (cont'd) - Impact testing machine	On-site indirect verification for energy absorbed by breaking of Charpy V reference test piece in accordance with BS EN 10045-2: 1993 Cl. 6 over the following ranges :	
	10 J to 30 J	1.3 J
	30 J to 150 J	4.2 J
- Load cell with or without hydraulic jack	Calibration of compressive force in accordance with in-house method R-C-222 over the following ranges :	
	1 kN to 5 kN	1.3% of reading
	above 5 kN to 50 kN	1.3 % of reading
	above 50 kN to 500 kN	1.3 % of reading
	above 500 kN to 2000 kN	1.3 % of reading
- Marshall testing machine	On-site calibration of compressive force using true force method and Grade 1.0 load cells and verification of grade in accordance with BS 1610: Part 1: 1992 over the following range :	
	5 kN to 50 kN	1.4 % of reading
	On-site calibration of flow displacement using dial gauge tester in accordance with in-house method R-C-109 over the following ranges :	
	0.1 mm to 5 mm	0.025 mm
	above 5 mm to 10 mm	0.031 mm

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities (cont'd)		
- Force (cont'd)		
- Proving ring	Calibration for compressive force in accordance with GEOSPEC 3: 2001 Cl. A3 over the following ranges :	
	0.1 kN to 50 kN	0.6 % of reading
- Pull-off tester	Calibration for tension force in accordance with in-house method R-C-276 over the following range :	
	1 kN to 5 kN	0.6 % of reading
	above 5 kN to 16 kN	0.5 % of reading

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities (cont'd) - Force (cont'd) - Universal testing machine in compression mode	On-site calibration for compression force using true force method and Grade 1.0 load cell and verification for grade in accordance with BS 1610: Part 1: 1985; or BS 1610: Part 1: 1992 over the following range:	
	0.1 kN to 3000 kN	1.0 % of reading
	On-site calibration for compression force using true force method and Class 1 load cell and verification for class in accordance with EN ISO 7500-1: 2004 over the following range :	
	0.1 kN to 3000 kN	1.5 % of reading
	On-site calibration for compression force using true force method and Class 1 load cell and verification for class in accordance with EN ISO 7500-1: 2018 over the following range :	
	0.1 kN to 3000 kN	1.5 % of reading

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related quantities (cont'd)		
- Force (cont'd)		
- Universal testing machine in tension mode	On-site calibration for tensile force using true force method and Grade 1.0 load cell and verification for grade in accordance with BS 1610: Part 1: 1985 over the following ranges :	
	0.1 kN to 20 kN	0.6 % of reading
	above 20 kN to 200 kN	0.5 % of reading
	above 200 kN to 1800 kN	0.5 % of reading
	On-site calibration for tensile force using true force method and Class 1 load cell and verification for class in accordance with BS EN 10002-2: 1992; or BS EN ISO 7500-1: 1999; or BS EN ISO 7500-1: 2004 over the following ranges :	
	0.1 kN to 20 kN	0.6 % of reading
	above 20 kN to 200 kN	0.5 % of reading
	above 200 kN to 1800 kN	0.5 % of reading
	On-site calibration for tensile force using true force method and Class 1 load cell and verification for class in accordance with BS EN 7500-1: 2018 over the following ranges :	
	0.1 kN to 20 kN	0.6 % of reading
	above 20 kN to 200 kN	0.5 % of reading
	above 200 kN to 1800 kN	0.5 % of reading

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities (cont'd) - Hardness - Hardness testing machine	On-site indirect verification of testing machine for Vickers hardness scales in accordance with BS EN ISO 6507-2: 2005 cl. 5 over the following ranges : 150 HV5 to 515 HV5 96 HV10 to 473 HV10 199 HV30 to 760 HV30	 2.1% HV5 2.1 % HV10 2.1 % HV30

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*	
Mass and related quantities (cont'd) - Pressure - Pressure gauge and pressure transducer	Calibration for pressure using oil as pressure medium in accordance with in-house method R-C-186 over the following ranges :		
	120 bar to 600 bar	0.27 % to 0.33 % of reading	.vs.
	above 600 bar to 950 bar	1.2 % to 1.9 % of reading	.vs.
	Calibration for pressure using water as pressure medium in accordance with GEOSPEC 3: 2001 Cl. A.3.2 over the following range :		
	0.2 bar to 10 bar	0.4 % of reading	
	Calibration for pressure using air as pressure medium in accordance with in-house method R-C-258 over the following ranges :		
	0.2 bar to 20 bar	0.4 % of reading	
	above 20 bar to 40 bar	0.7 % of reading	
	Calibration for pressure using oil or water as pressure medium in accordance with in-house method R-C-258 over the following ranges :		
	0.2 bar to 20 bar	0.4 % of reading	
	above 20 bar to 600 bar	0.7 % of reading	

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities (cont'd) - Volume - Volume change apparatus	Calibration for volume in accordance with in-house method R-C-179 over the following range : 10 ml to 100 ml	 0.06 ml

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Thermometry - Temperature		
- Analogue thermometer	Calibration for temperature in accordance with in-house method R-C-232 over the following ranges :	
	-10 ℃ to 250 ℃	1.2 K
- Digital thermometer	Calibration for temperature in accordance with in-house method R-C-231 over the following ranges :	
	-20 ℃ to 80 ℃	0.3 K
	above 80 ℃ to 250 ℃	0.4 K
- Liquid-in-glass thermometer	Calibration for temperature in accordance with in-house method R-C-234 over the following ranges :	
	-20 ℃ to 80 ℃	0.3 K
	above 80 ℃ to 250 ℃	0.4 K
- Platinum resistance thermometer	Calibration for temperature in accordance with in-house method R-C-231 over the following ranges :	
	-20 ℃ to 80 ℃	0.3 K
	above 80 ℃ to 250 ℃	0.4 K

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Adhesive	Pull-off test of repair mortar	BS 6319: Part 7: 1985 with modification Hong Kong Housing Authority Materials Testing Services (2020/2022) for Maintenance & Building Materials Specification Part D Cl. 2.1.14 Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance & Building Materials Specification Part D Cl. 2.1.15 Method 1
	Pull-off test of tile adhesive	In-house method T-T-051
	Pull-off test of tiles	Hong Kong Housing Authority Specification Library (2004) FIN 5.T150.4(3) with modification In-house method T-T-102
Admixtures	Air content test	BS EN 12350-7: 2009 Cl. 5 (Pressure gauge method) in conjunction with the following specification: BS EN 934-2: 2009 Table 2(3), 3.1(3), 3.2(4), 4(3), 5(1), 6(3), 7(2), 8(3), 9(3), 10(4), 11.1(4), 11.2(3) & 12(4)
	Bleeding test	BS EN 480-4: 2005 in conjunction with the following specification: BS EN 934-2: 2009 Table 4(1)
	Capillary absorption	BS EN 480-5: 2005 in conjunction with the following specification: BS EN 934-2: 2009 Table 9(1)
	Compression strength	BS EN 12390-3: 2009 in conjunction with the following specification: BS EN 934-2: 2009 Table 2(No. 2), 3.1(2), 3.2(3), 4(2), 5(3), 6(2), 7(1), 8(2), 9(2), 10(1), 11.1(1), 11.2(2) & 12(1)
	Increase in consistence	BS EN 12350-2: 2009 & BS EN 480-1: 2014 BS EN 12350-5: 2009 & BS EN 480-1: 2014 in conjunction with the following specification: BS EN 934-2: 2009 Table 3.2(1)
	Retention of consistence	BS EN 12350-2: 2009 & BS EN 480-1: 2014 BS EN 12350-5: 2009 & BS EN 480-1: 2014 in conjunction with the following specification: BS EN 934-2: 2009 Table 3.2(2) & 11.2(1)

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Admixtures (cont'd)	Setting time	BS EN 480-2: 2006 in conjunction with the following specification: BS EN 934-2: 2009 Table 6(1), 8(1), 10(2), 11.1(2) & 12(2)
	Water reduction	BS EN 12350-2: 2009 & BS EN 480-1: 2014 BS EN 12350-5: 2009 & BS EN 480-1: 2014 in conjunction with the following specification: BS EN 934-2: 2009 Table 2(1), 3.1(1), 10(3), 11.1(3) & 12(3)
Admixtures (chemical analysis)	Ash content	BS 5075: Part 1: 1982 (Amd. 4910) App. D.2
	Chloride content	BS 5075: Part 1: 1982 (Amd. 4910) App. E
	Water soluble chloride content	BS EN 480-10: 1997
	Dry material content	BS 5075: Part 1: 1982 (Amd. 4910) App. D.1
	Conventional dry material content	BS EN 480-8: 1997
	pH value (liquid)	ISO 4316: 1977
	Relative density (liquid)	BS 5075: Part 1: 1982 (Amd. 4910) App. D.3
	Density (liquid)	ISO 758: 1976
	Acid-soluble alkali content (equivalent Na_2O)	In-house Method C-T-124

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Aggregates	Sampling	BS 812: Part 102: 1989 CS3: 2013 Section 8
	Particle size distribution	BS 812: Section 103.1: 1985 + Amd. 6003 (by sieve analysis) CS3: 2013 Section 10 (by sieve analysis)
	Flakiness index	BS 812: Section 105.1: 1989 CS3: 2013 Section 11
	Elongation index	BS 812: Section 105.2: 1990 CS3: 2013 Section 12
	Methylene blue value	CS3: 2013 Section 13
	Los Angeles value	CS3: 2013 Section 14
	Aggregate impact value	BS 812: Part 112: 1990 + Amd. 8772 CS3: 2013 Section 15
	Ten per cent fines value	BS 812: Part 111: 1990 CS3: 2013 Section 16
	Particle densities and water absorption	BS 812: Part 2: 1995 + Amd. 9195 CS3: 2013 Section 17
	Moisture content	BS 812: Part 109: 1990 (by oven drying method) CS3: 2013 Section 18
	Soundness	BS 812: Part 121: 1989 BS 6349: Part 1: 1984 App. B CS3: 2013 Section 19
	Drying shrinkage	CS3: 2013 Section 20
	Effect of organic substances by mortar method	CS3: 2013 Section 22
	Alkali silica reaction potential by ultra-accelerated mortar-bar test	ASTM C1260-94 CS1: 2010 Section 22 RILEM TC 106-2: 2000

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Aggregates (cont'd)	Aggregate crushing value	BS 812: Part 110: 1990
	Bulk density	BS 812: Part 2: 1975 + Amd. 4615
	Bulk density, voids and bulking	BS 812: Part 2: 1995 Cl. 6
	Clay, silt and dust content	BS 812: Part 1: 1975 + Amd. 4875 (by decantation method)
	Compacting fraction value of aggregates for granular bed	General Specification for Civil Engineering Works (2006) Vol. 1 App. 5.2 General Specification for Civil Engineering Works (2020) Vol. 1 App. 5.2
	Foreign materials content in recycled aggregates	Hong Kong Housing Authority Materials Testing Services (2006/2008) for Construction Materials Package A Part D Cl. 1.5.2
	Relative densities and water absorption	BS 812: Part 2: 1975 + Amd. 4615
	Resistance to degradation of small size coarse aggregate by abrasion and impact in the Los Angeles Machine	ASTM C131-96 with modifications
	Resistance to degradation of large size coarse aggregate by abrasion and impact in the Los Angeles Machine	ASTM C535-96 with modifications
	Shell content in coarse aggregates	BS 812: Part 106: 1985

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Aggregates (chemical analysis)	Water-soluble chloride salts	BS 812: Part 117: 1988 *Excluding* Cl. 4
	Water-soluble chloride ion content	CS3: 2013 Section 21.3
	Acid-soluble chloride ion content	CS3: 2013 Section 21.4
	Total sulphate content by acid extraction	BS 812: Part 118: 1988 Cl. 6 *Excluding* Cl. 4
	Acid-soluble material	BS 812: Part 119: 1985 *Excluding* Cl. 4
	Potential reactivity	ASTM C289 - 87 *Excluding* Cl. 9 and 14.4 ASTM C289 - 94 *Excluding* Cl. 8
	Soluble silica content (SiO_2)	HKHA MTS (2012/2014) Specification, Part D Cl. 1.4.9
	Soluble calcium oxide content (CaO)	HKHA MTS (2012/2014) Specification, Part D Cl. 1.4.9
	Water-soluble chloride salts content	BS EN 1744-1: 2009 Cl. 7 *Excluding* 7.2
	Acid-soluble sulphate content	BS EN 1744-1: 2009 Cl. 12 *Excluding* 12.2 CS3: 2013 Section 21.5
	Total sulphur content	CS3: 2013 Section 21.6
	Presence of humus	CS3: 2013 Section 21.7

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Bituminous materials	Air voids content of bituminous specimens	BS EN 12697-8: 2003 BS EN 12697-8: 2018
	Binder content and aggregate grading of bituminous samples	BS 598-102: 1996 + Amd. 1 Method 5.2
	Bitumen content of bituminous paving materials by ignition method	ASTM D6307-98 ASTM D6307-05 ASTM D6307-16
	Bulk density of compacted bituminous specimens (saturated surface dry)	BS EN 12697-6: 2003 Procedure B BS EN 12697-6: 2012 Procedure B
	Bulk specific gravity and density of compacted bituminous mixtures using automatic vacuum sealing method	ASTM D6752/D6752M-11 excluding Cl. 5
	Bulk specific gravity and density of non-absorptive compacted bituminous mixtures	ASTM D2726-88 Method 9.1 ASTM D2726-96a Method 9.1 ASTM D2726/2726M-14 Method 9.1
	Density of cores from compacted asphalt layers	BS 598: Part 104: 1989 Method 4
	Density, stability and flow of bituminous mixtures using Marshall Apparatus	ASTM D1559-89
	Mechanical size analysis of extracted aggregates	ASTM D5444-15 with modification
	Percentage air voids in compacted dense bituminous paving mixtures	ASTM D3203-88 ASTM D3203-94 ASTM D3203/D3203M-11 ASTM D3203/D3203M-17
	Polymer modified binder content and particle size distribution of polymer modified friction course and cushion course materials by centrifuge method and ignition method	Particular Specification for Highways Department App. 9.2 (RD/GN/032 June 2007 App. B), ASTM C117-95 and ASTM C136-96a with modification
	Quantitative extraction of bitumen from bituminous paving mixtures	ASTM D2172-88 (Method A using ashing method) ASTM D2172-95 (Method A using ashing method) ASTM D2172/D2172M-11 (Method A using ashing method) ASTM D2172/D2172M-17 (Method A using ashing method)

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Bituminous materials (cont'd)	Reduction of bituminous materials to testing size	ASTM C702-98
	Resistance of compacted asphalt mixtures to moisture induced damage	AASHTO T283-89 (1993) AASHTO T283-02 AASHTO T283-14
	Sieve analysis of fine and coarse aggregates and materials finer than 75 micron sieve in mineral aggregates by washing	ASTM C117-87 Procedure B ASTM C117-95 Procedure B ASTM C117-13 Procedure B ASTM C117-17 Procedure B ASTM C136-84a with modifications ASTM C136-96a with modifications ASTM C136-14 with modifications
	Sieve analysis of mineral filler for asphalt paving mixtures	ASTM D546-17 with modifications
	Theoretical maximum specific gravity and density of bituminous paving mixtures	ASTM D2041-78 (Weighing in water method using type A container) ASTM D2041-95 (Weighing in water method using type A container) ASTM D2041-03a (Weighing in water method) ASTM D2041/2041-11 (Weighing in water method)
	Thickness or height of compacted asphalt paving mixtures.	ASTM D3549-93a

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Bituminous materials (pure bitumen)	Density of semi-solid and solid bituminous materials by nickel crucible method	ASTM D3289-17
	Ductility of bituminous materials	ASTM D113-07
	Effects of heat and air on asphaltic materials (Thin-film oven test)	ASTM D1754-14
	Flash and fire points by Cleveland Open Cup	ASTM D92-18
	Loss in mass after heating of industrial bitumen	BS 2000: Part 506: 2009 BS EN 13303: 2009
	Needle penetration of bituminous materials	BS 2000: Part 49: 1993
	Penetration of bituminous materials	ASTM D5-05a ASTM D5-13
	Softening point of bitumen by ring and ball method	ASTM D36-95 (Re-approved 2000) ASTM D36/D36M-14 BS 2000: Part 58: 1993 BS 2000: Part 58: 2015 BS EN 1427: 2015
	Solubility of asphalt materials in trichloroethylene	ASTM D2042-15
	Storage stability of polymer modified binders	Hong Kong International Airport General Materials & Workmanship Specification (GMWS) Vol. 4 Airfield Works Issue No. 6 (Apr 2018) App. A132.6.1 Method A
	Viscosity of asphalt binder by a rotational viscometer	AASHTO T316-13: 2017
	Viscosity of asphalt by a vacuum capillary viscometer	ASTM D2171/D2171M-10

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Blocks & Bricks	Compressive strength of clay bricks	BS 3921: 1985 App. D
	Compressive strength of interlocking blocks	Hong Kong Housing Authority Specification (2014) EXT3.T110.7 - T160.7
	Compressive strength of precast concrete masonry unit	BS 6073: Part 1: 1981 App. B (Amd. 4462)
	Compressive strength of precast concrete paving blocks	BS 6717: Part 1: 1993 Annex A & B General Specification for Civil Engineering Works (2006) Vol. 1 App. 11.1 General Specification for Civil Engineering Works (2020) Vol. 1 App. 11.1
	Dimensions check of clay bricks	BS 3921: 1985 App. A
	Dimension of paving flags	BS 7263: Part 1: 2001 Annex B
	Measurement of the dimension of paving block	BS 6717: 2001 Annex B
	Skid resistant value of pavers	ASTM E303-93 (2013) BS 6677: Part 1: 1986 App. E BS 7976: Part 2:2002 + A1:2013
	Slip resistance classification of new pedestrian surface materials	AS 4586: 2013
	Transverse breaking load of clay and calcium silicate pavers	BS 6677: Part 1: 1986 App. D
	Transverse strength of precast concrete blocks	BS 6073: Part 1: 1981 App. C (Amd. 4462)
	Water absorption properties of masonry units and segmental pavers	AS/NZS 4456.14: 2003
	Work size dimensions of clay and calcium silicate pavers	BS 6677: Part 1: 1986 App. C

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Cement & Portland pulverised fuel ash cement (PPFAC)	Compressive strength of broken mortar prism in the force range 6 kN - 250 kN	BS EN 196-1: 2005
	Density	BS EN 196-6: 2010 Annex NC BS EN 196-6: 2018
	Fineness	BS EN 196-6: 2010 (by Blaine Method) BS EN 196-6: 2018
	Flexural strength of mortar prisms in the force range 2 kN - 250 kN	BS EN 196-1: 2005 BS EN 196-1: 2016
	Sampling	BS EN 196-7: 1992
	Setting times	BS EN 196-3: 2005 + Al: 2008 BS EN 196-3: 2016
	Soundness	BS EN 196-3: 2005 + Al: 2008 BS EN 196-3: 2016
	Standard consistence	BS EN 196-3: 2005 + Al: 2008 BS EN 196-3: 2016
Cement stabilised soil	Unconfined compressive strength of cement stabilised soil cores (with or without capping)	Interim Guidelines on Testing of Unconfined Compressive Strength of Cement Stabilised Soil Cores in Hong Kong (Oct 2017) App. B published by Geotechnical Division of The Hong Kong Institution of Engineers

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Cement (chemical analysis)	Heat of hydration	BS 4550: Part 3: 1978 Section 3.8 with modification
	Chloride content (Cl^-)	BS EN 196-2: 2013 Cl. 4.5.16
	Residue insoluble in hydrochloric acid and sodium carbonate	BS EN 196-2: 2013 Cl. 4.4.3
	Loss on ignition (L.O.I.)	BS EN 196-2: 2013 Cl. 4.4.1
	Sulfate content (as SO_3)	BS EN 196-2: 2013 Cl. 4.4.2
	Acid-soluble alkali content (equivalent Na_2O)	In-house Method C-T-101
	Magnesium oxide (MgO) Aluminium oxide (Al_2O_3) Silicon dioxide (SiO_2) Calcium oxide (CaO) Iron oxide (Fe_2O_3)	BS EN 196-2: 2013 Cl.5 (by using XRF based on pressed pellets of un-fused sample)
Concrete	Sampling of fresh concrete	BS EN 12350-1: 2000 CS1: 2010 Section 1
	Slump of fresh concrete	BS EN 12350-2: 2000 + Amd. 11080 CS1: 2010 Section 2 Part I
	Compacting factor of fresh concrete	CS1: 2010 Section 2 Part II
	Flow table test	BS EN 12350-5: 2000 + Amd. 11078 CS1: 2010 Section 2 Part IV
	Slump flow test	CS1: 2010 Section 2 Part V
	Stiffening time of fresh concrete	CS1: 2010 Section 3
	Density of compacted fresh concrete	BS EN 12350-6: 2000 + Amd. 11077) CS1: 1990 Section 5 + Amd. 1101 CS1: 2010 Section 5
	Air content of fresh concrete	BS EN 12350-7: 2000 CS1: 2010 Section 6
	Making test cubes from fresh concrete	BS EN 12390-2: 2000 + Amd. 14343 CS1: 2010 Section 7

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Concrete (cont'd)	Making test beams from fresh concrete	CS1: 2010 Section 8
	Making test cylinders from fresh concrete	CS1: 2010 Section 9
	Curing of test specimens	BS EN 12390-2: 2000 + Amd. 14343 CS1: 2010 Section 10
	Mixing and sampling of fresh concrete	CS1: 2010 Section 11
	Compressive strength of concrete cubes in the force range 50 kN – 3000 kN	CS1: 2010 Section 12
	Tensile splitting strength of cylinders in the force range 50 kN – 3000 kN	CS1: 2010 Section 13
	Flexural strength of concrete test beams in the force range 5 kN – 50 kN	CS1: 2010 Section 14
	Obtaining core samples	CS1: 2010 Section 15
	Compressive strength of concrete cores in the force range 50 kN – 3000 kN	BS EN 12390-3: 2002 CS1: 2010 Section 15
	Density of hardened concrete	CS1: 2010 Section 16
	Depth of penetration of water under pressure	CS1: 2010 Section 18
	Concrete's ability to resist chloride ion penetration	AASHTO T277-93 ASTM C1202-07 CS1: 2010 Section 19
	Assessment of the cement, aggregates and water contents of fresh concrete	BS 1881: Part 128: 1997 Annex A (Buoyance method)
	Bleeding test	ASTM C232-99 Method A BS EN 480-4: 2005
	Capillary absorption	BS EN 480-5: 1997

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Concrete (cont'd)	Consistence of mortar	BS EN 413-2: 2005 Cl. 5
	Flexural toughness and first-crack strength of fiber-reinforced concrete	ASTM C1018-97
	Mixing of concrete and mortar	BS EN 480-1: 2006
	Setting time	BS EN 480-2: 2006
	Temperature of fresh concrete	BS 5328: Part 4: 1990 Cl. 3.4(b) In-house method P-T-070 Mass Transit Railway Corporation Specification D/MTRCL/NW/CIV/M&W/002/A3 Cl. 11.40 (10)
	Temperature monitoring of concrete structure (heat of hydration)	In-house method P-T-072
	Water absorption	BS 1881: Part 122: 1983 + Amd. 6108 BS 1881: Part 122: 2011
	Removal of concrete cover to expose reinforcement	Hong Kong Housing Authority Materials Testing Services (2014/2016) for Maintenance & Building Materials Specification Part D Cl. 4.2.1 Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance & Building Materials Specification Part D Cl. 4.2.1
	Removal of concrete/mortar in inspection core	Hong Kong Housing Authority Materials Testing Services (2014/2016) for Maintenance & Building Materials Specification Part D Cl. 4.2.2 Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance & Building Materials Specification Part D Cl. 4.2.2
	Cutting out reinforcement	Hong Kong Housing Authority Materials Testing Services (2014/2016) for Maintenance & Building Materials Specification Part D Cl. 4.2.3 Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance & Building Materials Specification Part D Cl. 4.2.3

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Concrete (cont'd)	Moisture content by weighing drilling powder	Hong Kong Housing Authority Materials Testing Services (2014/2016) for Maintenance & Building Materials Specification Part D Cl. 4.3.8 Method 1 Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance & Building Materials Specification Part D Cl. 4.3.8 Method 1
	Moisture content by weighing minicores	Hong Kong Housing Authority Materials Testing Services (2014/2016) for Maintenance & Building Materials Specification Part D Cl. 4.3.8 Method 2 Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance & Building Materials Specification Part D Cl. 4.3.8 Method 2
	Moisture content by speedy moisture tester	Hong Kong Housing Authority Materials Testing Services (2014/2016) for Maintenance & Building Materials Specification Part D Cl. 4.3.8 Method 3 Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance & Building Materials Specification Part D Cl. 4.3.8 Method 3
	Crack survey	Hong Kong Housing Authority Materials Testing Services (2014/2016) for Maintenance & Building Materials Specification Part D Cl. 4.3.14
	Dry cutting mini-cores	Hong Kong Housing Authority Materials Testing Services (2014/2016) for Maintenance & Building Materials Specification Part D Cl. 6.2
	Obtaining drilling powder samples	Hong Kong Housing Authority Materials Testing Services (2014/2016) for Maintenance & Building Materials Specification Part D Cl. 6.4 Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance & Building Materials Specification Part D Cl. 6.4
	Monitoring of setting time	Hong Kong Housing Authority Materials Testing Services (2022/2024) for Construction Materials Specification Part D Cl. 1.3.9
	Suitability of water for making concrete (strength and setting time)	BS EN 196-1: 1995 BS EN 196-3: 1995 in conjunction with the following specification: BS EN 1008: 2002 Cl. 4.4

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Concrete (diagnostic)	Carbonation test	BS EN 14630: 2006 Hong Kong Housing Authority Materials Testing Services (2014/2016) for Maintenance & Building Materials Specification Part D Cl. 4.3.1 (Method 1 & Method 2) Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance & Building Materials Specification Part D Cl. 4.3.1 (Method 1 & Method 2)
	Carbonation accelerating test	GB/T 50082-2009 with modification
	Covermeter survey	Hong Kong Housing Authority Materials Testing Services (2014/2016) for Maintenance & Building Materials Specification Part D Cl. 4.3.2 (Method 1 & Method 2) Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance & Building Materials Specification Part D Cl. 4.3.2 (Method 1 & Method 2)
	Half-cell potential measurement	ASTM C876-91 ASTM C876-15
	Infrared thermography for detection of building surface defects	Hong Kong Concrete Institute TM1 (2009) Hong Kong Concrete Institute TM1 Issue 2 (2022)
	Resistivity measurement	BS 1881: Part 201: 1986 Cl. 2.3 Hong Kong Housing Authority Materials Testing Services (2008/2010) for Maintenance & Building Materials Specification Part D Cl. 4.3.6 Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance & Building Materials Specification Part D Cl. 4.3.6
	Spark test	Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance & Building Materials Specification Part D Cl. 10.6
	Surface hardness measurement	BS 1881: Part 202: 1986 BS EN 12504-2: 2001 BS EN 12504-2: 2012 BS EN 12504-2: 2021
	Surface penetration radar survey	Hong Kong Concrete Institute TM2 (2009)
	Ultrasonic pulse velocity measurement	BS 1881: Part 203: 1986 Cl. 6 (direct transmission) BS EN 12504-4: 2004 (direct &semi-direct transmission) BS EN 12504-4: 2021 (direct & semi-direct transmission)

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Concrete (chemical analysis)	Treatment of samples	BS 1881: Part 124: 1988 Cl. 4 BS 1881: Part 124: 2015+A1: 2021 Cl. 5 CS1: 2010 Section 21.4
	Detection of PFA	CS1: 2010 Section 21.5
	Cement and aggregate content (by CaO determination)	BS 1881: Part 124: 2015+A1: 2021 Cl. 6 4 & 6.9 BS 1881: Part 124: 1988 Cl. 5.4 & 5.9 CS1: 2010 Section 21.6.4, 21.6.6 & 21.6.7
	Aggregate / cement ratio	BS 1881: Part 124: 2015+A1: 2021 Cl. 6.9 BS 1881: Part 124: 1988 Cl. 5.9
	Chloride ion content	BS 1881: Part 124: 2015+A1: 2021 Cl. 12.1 BS 1881: Part 124: 1988 Cl. 10.2 CS1: 2010 Section 21.10.2
	Sulphate content	BS 1881: Part 124: 1988 Cl. 10.3 CS1: 2010 Section 21.10.3
	Combined water content	BS 1881: Part 124: 1988 Cl. 7.5 CS1: 2010 Section 21.7.5.2
	Capillary porosity	BS 1881: Part 124: 1988 Cl. 7.4 CS1: 2010 Section 21.7.4
	Original water content	BS 1881: Part 124: 1988 Cl. 7 CS1: 2010 Section 21.7
	Water / cement ratio	BS 1881: Part 124: 1988 Cl. 5 & 7 CS1: 2010 Sections 21.6 and 21.7
	Carbon dioxide content (Gasometric)	CS1: 2010 Section 21.10.4.2
	pH value	In-house Method C-T-003
Concrete - Hardened (chemical analysis)	Chloride content	BS EN 14629: 2007 Cl. 4.3.4.1

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Dimension stones	Abrasion resistance of stone subjected to foot traffic	ASTM C241/C241M-09 ASTM C241/C241M-15
	Absorption and bulk specific gravity	ASTM C97/C97M-09 ASTM C97/C97M-15
	Compressive strength	ASTM C170/C170M-09 ASTM C170/C170M-15
	Flexural strength	ASTM C880/C880M-09 ASTM C880/C880M-15
	Modulus of rupture	ASTM C99/C99M-09 ASTM C99/C99M-15
	Strength of individual stone anchorages	ASTM C1354/C1354M-09 ASTM C1354/C1354M-15
Doors	Behaviour of door leaves under humidity variations	BS 5369: 1987 (BS EN 43) in conjunction with the following specification: Hong Kong Housing Authority Specification Library (2022) COM5.M040.9(2)(h) Test 3
	Dimensional accuracy and squareness	BS 5278: 1976 in conjunction with the following specification: Hong Kong Housing Authority Specification Library (2022) COM5.M040.9(2)(f) Test 1
	General flatness and evenness	BS 5277: 1976 in conjunction with the following specification: Hong Kong Housing Authority Specification Library (2022) COM5.M040.9(2)(g) Test 2
	Moisture content and density of timber doors	BS 373: 1957 Cl. 2 and 5 In-house method T-T-226

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Foundation	Borehole video inspection test	Hong Kong Housing Authority Materials Testing Services (2024/2026) for Non-Destructive Pile Testing Cl. D8 & D10
	Compression static loading test on pile (SLT)	Hong Kong Housing Authority Specification Library (2022) PIL1.T610.9 to PIL1.T1110.9
	Crosshole sonic logging test (SOLT)	ASTM D6760-02 ASTM D6760-08
	Pile dynamic test (PDA)	ASTM D4945-17
	Pile integrity test (PIT)	ASTM D5882-16
	Plate load test (PLT)	BS 1377: Part 9: 1990 Cl. 4.1 (incremental loading) excluding Cl. 4.1.6.1 Buildings Department Code of Practice for Foundations (Apr 2017) Cl. 8.2(2) excluding 8.2(2)(f) to (h)
	Single-hole sonic logging test (SOLT)	ASTM D6760-08
	Ultrasonic echo sounder test (UEST)	Hong Kong Concrete Institute TM3 Issue 2 (2024)

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Glass	Bending strength of glass	BS EN 1288-3: 2000
	Boil test of laminated glass	ANSI Z97.1: 2004
Glass fibre reinforced cement	Deformation and stress	BS EN 1170-5: 1998
	Dry density of cured specimens	BS EN 1170-6: 1998
	Limit of proportionality and failure load	BS EN 1170-5: 1998
	Water absorption of cured specimens	BS EN 1170-6: 1998
	Water content	BS EN 1170-5: 1998
Ground Granulated Blastfurnace Slag (GGBS)	Activity index	BS EN 196-1: 2005 BS EN 196-1: 2016 in conjunction with the following specification: BS EN 15167-1: 2006 Cl. 5.3.2.3
	Density	BS EN 196-6: 2010 Annex NC in conjunction with the following specification: BS EN 15167-1: 2006 Cl. 5.5g
	Fineness	BS EN 196-6: 2010 (using Blaine Method) in conjunction with the following specification: BS EN 15167-1: 2006 Cl. 5.3.1
	Initial setting time	BS EN 196-3: 2005 + A1: 2008 BS EN 196-3: 2016 in conjunction with the following specification: BS EN 15167-1: 2006 Cl. 5.3.2.2
	Moisture content	BS 6699: 1992 App. E BS EN 15167-1: 2006 Annex A

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Grout	Bleeding and free expansion	General Specification for Civil Engineering Works (2006) Vol.2 Cl. 17.60 Hong Kong Housing Authority Specification Library (2004) Cl. PIL 1.T320.4
	Compressive strength of grout cubes in the force range 50 kN - 3000 kN	CS1: 2010 Section 12 Hong Kong Housing Authority Materials Testing Services (2014/2016) for Maintenance & Building Materials Specification Part D Cl. 2.2.6.1
	Changes in height	ASTM C1090-96
	Coutinho Ring shrinkage cracking test	Hong Kong Housing Authority Materials Testing Services (2014/2016) for Maintenance & Building Materials Specification Part D Cl. 2.1.6
	Curing of test specimen in the laboratory	Hong Kong Housing Authority Materials Testing Services (2014/2016) for Maintenance & Building Materials Specification Part D Cl. 2.1.1
	Early change in height	ASTM C827-95a
	Flow of grout for preplaced-aggregate concrete (flow cone method)	ASTM C939-10
	Making of test cubes	In-house method K-T-111
	Modified Figg test-Air permeability test	Hong Kong Housing Authority Specification Library (2012) CON 2.T120.6 Hong Kong Housing Authority Materials Testing Services (2014/2016) for Maintenance & Building Materials Specification Part D Cl. 2.1.7
	Setting time	ASTM C953-87 (Reapproved 1992)
	Trial mix of grout	Hong Kong Housing Authority Materials Testing Services (2014/2016) for Maintenance & Building Materials Specification Part D Cl. 2.1.20

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Metallic materials (non-destructive)	Ultrasonic test of H beams with parallel flanges and IPE beams (Manual method)	BS EN 10306: 2002
	Ultrasonic test of metallic materials (Reflection method)	BS 5996: 1993
	Ultrasonic test of metallic materials (Reflection method)	BS EN 10160: 1999
Metallic materials & non-metallic materials (non-destructive)	Ultrasonic thickness measurement of metallic materials and non-metallic materials	BS EN 14127: 2011 ISO 16809: 2012
Mortar	Air content of freshly mixed mortar (density method)	BS 4551: Part 1: 1998 Cl. 10.2
	Consistence of fresh mortar by flow table	BS EN 1015-3: 1999 + Amd. 1 & 2
	Compressive strength of hardened mortar in the force range 2 kN – 250 kN	BS EN 1015-11: 2019
	Flexural strength of hardened mortar	BS EN 1015-11: 2019
Paint & varnish	Accelerated weathering resistance	ASTM G53-88 ASTM G53-96 ASTM G154-06 ASTM G154-12a ASTM G154-16
	Bend test	BS 3900: E1: 1995 BS EN ISO 1519: 1995
	Bend test (cylindrical mandrel)	BS EN ISO 1519: 2002, BS 3900-E1: 2002 BS EN ISO 1519: 2011
	Comparison of contrast ratio (hiding power) of paints	BS EN ISO 2814: 2006, BS 3900-D4: 2006
	Consistency (Measuring Krebs unit viscosity using a Stormer-type viscometer)	ASTM D562-01 (reapproved 2005) (Method A Procedure B) ASTM D562-10 (Method A Procedure B) ASTM D562-10 (Reapproved 2018) (Method A Procedure B)

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Paint & varnish (cont'd)	Consistency using Stormer viscometer	ASTM D562-81 (Reapproved 1997) (Procedure B)
	Contrast ratio of paints	BS 3900: Part D4: 1974
	Cross-cut test	BS EN ISO 2409: 2013 BS EN ISO 2409: 2020
	Through dry test	BS 3900: Part C3: 1990, ISO 9117: 1990 BS EN 29117: 1992, ISO 9117: 1990 BS EN ISO 9117-1: 2009
	Dry-film coating thickness by magnetic method	BS EN ISO 2178: 2016 (Magnetic method) BS EN ISO 2808: 2007, BS 3900-C5: 2007 (Method 7C - Magnetic-induction) BS EN ISO 2808: 2019 (Method 7B.2)
	Dry-film thickness by eddy current method	ISO 2808 : 1997, BS 3900-C5: 1997 (Method 7 - Eddy current)
	Examination and preparation of samples	BS 3900: A2: 1993 BS EN ISO 1513: 2010 ISO 1513: 1992
	Fineness of grind	BS 3900: Part C6: 2000 BS EN ISO 1524: 2013 ISO 1524: 2000
	Flow time by use of flow cups	BS 3900: A6: 1996 BS EN ISO 2431: 1996 BS EN ISO 2431: 2011
	Pull-off test of adhesion	BS 3900: Part E10 1979 Cl. 7.3.2 BS EN 24624: 1993 Cl.7.3.2 ISO 4624: 1978 Cl. 7.3.2
	Resistance to humid atmospheres containing sulphur dioxide	BS EN ISO 3231: 1998, BS 3900-F8: 1993
	Scratch test	BS 3900: E2: 1992 BS EN ISO 1518-1: 2011 ISO 1518: 1992
	Scrub resistance of wall paints	ASTM D2486-96 ASTM D2486-06 Method A ASTM D2486-17 Method A

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Paint & varnish (cont'd)	Specular gloss of non-metallic paint films at 20°, 60° and 85°	BS 3900: Part D5: 1997 (Amd 10590) BS EN ISO 2813: 2000 BS EN ISO 2813: 2014
	Surface drying time using ballotini	BS EN ISO 1517: 1995, BS 3900: Part C2: 1994 (Amd. 8609) BS EN ISO 9117-3: 2010
	Wet-film thickness	BS 3900: C5: 1997 (Method 1) ISO 2808: 1997 (Method 1)
	Washability (wet abrasion) of emulsion paint	S.S. 5: Part 36: 1976 S.S. 5: Part F5: 1992 S.S. 5: Part F5: 2003
	Low temperature stability of multi-layer wall coatings	JIS A 6910-1988 Cl. 5.5
	Change in consistency of multi-layer wall coatings	JIS A 6910-1988 Cl. 5.6
	Cracking resistance due to initial stage drying of multi-layer wall coatings	JIS A 6910-1988 Cl. 5.7
	Adhesion strength of multi-layer wall coatings	JIS A 6910-1988 Cl. 5.8
	Repeat warming and cooling of multi-layer wall coatings	JIS A 6910-1988 Cl. 5.9 (Four sides of specimens are wrapped.)
	Permeability of multi-layer wall coatings	JIS A 6910-1988 Cl. 5.10
	Impact test of multi-layer wall coatings	JIS A 6910 -1988 Cl. 5.11

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Pipes (concrete pipes)	Water absorption test for concrete pipes	BS 5911: Part 100: 1988 (Amd. 6269 & 7588) Cl. 20.2 and App. E
Pipes (Thermoplastics waste pipes)	Dimensions	BS 5255: 1989 Cl. 5
	Vicat softening temperature of thermoplastics	BS 5255: 1989 Cl. 6.1 and BS 2782: Part 1: Method 120B: 1990
	Impact resistance of pipes	BS 5255: 1989 Cl. 6.2 and BS 2782: Part 11: Method 1108A: 1989
	Heat reversion of pipes	BS 5255: 1989 Cl. 6.3 and BS 2782: Part 11: Method 1102A: 1981
	Leaktightness of pipework assemblies	BS 5255: 1989 Cl. 7.2 and BS 2782: Part 11: Method 1112A: 1989
	Resistance to elevated temperature cycling	BS 5255: 1989 Cl. 7.3 and App. A
Pipes (uPVC soil and ventilating pipes)	Dimensions	BS 4514: 1983 Cl. 4.1 and BS 2782: Part 11: Method 1101A: 1981
	Vicat softening temperature of thermoplastics	BS 4514: 1983 Cl. 5.1 and BS 2782: Part 1: Method 120B: 1990
	Tensile properties of pipes	BS 4514: 1983 Cl. 5.2 and BS 2782: Part 3: Method 320A: 1976 + Amd. No. 8057
	Impact resistance of pipes	BS 4514: 1983 Cl. 5.3 and App. B
	Heat reversion of pipes	BS 4514: 1983 Cl. 5.4 and BS 2782: Part 11: Method 1102A: 1981
	Temperature cycling test	BS 4514: 1983 Cl. 5.7 and App. D

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Pipes (Fittings for thermoplastics waste pipes)	Dimensions	BS 5255: 1989 Cl. 5
	Vicat softening temperature of thermoplastics	BS 5255: 1989 Cl. 6.1 and BS 2782: Part 1: Method 120B: 1990
	Stress relief test for injection moulded fittings (oven method)	BS 5255: 1989 Cl. 6.4 and BS 2782: Part 11: Method 1103A: 1982
	Leaktightness of pipework assemblies	BS 5255: 1989 Cl. 7.2 and BS 2782: Part 11: Method 1112A: 1989
	Resistance to elevated temperature cycling	BS 5255: 1989 Cl. 7.3 and App. A
Pipes (Fittings for uPVC soil and ventilating pipes)	Dimensions	BS 4514: 1983 Cl. 4.1 and BS 2782: Part 11: Method 1101A: 1981
	Vicat softening temperature of thermoplastics	BS 4514: 1983 Cl. 5.1 and BS 2782: Part 1: Method 120B: 1990
	Stress relief test for injection moulded fittings (oven method)	BS 4514: 1983 Cl. 5.5 and BS 2782: Part 11: Method 1103A: 1982
	Proof pressure test for fabricated fittings	BS 4514: 1983 Cl. 5.6 and App. C
	Temperature cycling test	BS 4514: 1983 Cl. 5.7 and App. D
Pipes (Water closet plastic connectors)	Vicat softening temperature of thermoplastics	BS 5627: 1984 Cl. 7a.3 and BS 2782: Part 1: Method 120B: 1990
	Stress relief test for injection moulded fittings (oven method)	BS 5627: 1984 Cl. 7a.3 and BS 2782: Part 11: Method 1103A: 1982
	Water test	BS 5627: 1984 Cl. 9.1 and App. E
	Air pressure test	BS 5627: 1984 Cl. 9.2 and App. F
	Water test under deflection	BS 5627: 1984 Cl. 9.3 and App. E
	Air pressure test under deflection	BS 5627: 1984 Cl. 9.4 and App. F

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Pipes (Waste traps)	Appearance of surfaces of traps	BS EN 274-1: 2002 Cl. 4.2 + Corr. No. 1 Cl. 4.2
	Depth of water seal of traps	BS EN 274-2: 2002 Cl. 4
	External leakage test and inlet attachment test of plastic waste traps	BS 3943: 1979 Cl. 19.1 and App. E
	Flow of water test of plastic waste traps	BS 3943: 1979 Cl. 20 and App. G
	Flow rate test of traps	BS EN 274-2: 2002 Cl. 5.1 and 5.4
	Impact test of plastic waste traps	BS 3943: 1979 Cl. 17 and App. C
	Internal clearance test of plastic waste traps	BS 3943: 1979 Cl. 16
	Leaktightness test of traps	BS EN 274-2: 2002 Cl. 6.2
	Residual stress test of plastic waste traps	BS 3943: 1979 Cl. 18 and App. D
	Thermal cycling test of plastic waste traps	BS 3943: 1979 Cl. 15 and App. B
	Temperature cycling test of traps	BS EN 274-2: 2002 Cl. 3
	Water seal test of plastic waste traps	BS 3943: 1979 Cl. 19.2 and App. F
Pipes (Two-way floor drains)	Effect of heating	BS EN 1329-1: 2000 Cl. 8.2
	Stress relief test for injection moulded fittings (oven method)	BS 5255: 1989 Cl. 6.4 and BS 2782: Part 11: Method 1103A: 1982
	Vicat softening temperature of thermoplastics	BS 5255: 1989 Cl. 6.1 and BS 2782: Part 1: Method 120B: 1990 BS EN 1329-1: 2000 Cl. 8.2 and BS EN 727: 1995
Pipes (Pipe joint adhesive)	Shear strength	BS 4346-3: 1982 + Amd. No. 5338 Cl. 5.1 and App. A
	Film properties	BS 4346-3: 1982 + Amd. No. 5338 Cl. 5.2 and App. B
	Long-term hydrostatic pressure requirements	BS 4346-3: 1982 + Amd. No. 5338 Cl. 5.3 and App. C

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Pipes (Unplasticized poly(vinyl chloride) (PVC-U) pipes)	Dimensions	BS 2782: Part 11: Method 1101A: 1981
	Vicat softening temperature of thermoplastics	BS EN 1329-1: 2000 Cl. 8.1 and BS EN 727: 1995
	Impact resistance of pipes	BS EN 1329-1: 2000 Cl. 7.1.1 and Round-the-clock method to BS EN 744: 1996 or staircase method to BS EN 1411: 1996
	Longitudinal reversion of pipes	BS EN 1329-1: 2000 Cl. 8.1 and BS EN 743: 1995 (Method A or B)
	Resistance to dichloromethane at a specified temperature	BS EN 1329-1: 2000 Cl. 8.1 and BS EN 580: 1994
	Watertightness test	BS EN 1329-1: 2000 Cl. 9 and BS EN 1053: 1996
	Airtightness test	BS EN 1329-1: 2000 Cl. 9 and BS EN 1054: 1996
	Resistance to elevated temperature cycling	BS EN 1329-1: 2000 Cl. 9 and BS EN 1055: 1996
	Exposure to direct (natural) weathering	BS 2782: Part 11: Method 1107A: 1996
Pipes (Unplasticized poly(vinyl chloride) (PVC) pipes)	Dimensions of unplasticized PVC pipe	BS 3506: 1969 Cl. 5 & 6 BS 4660: 1989 Cl. 5
	Impact resistance of unplasticized PVC pipe	BS 3506: 1969 App. E BS 4660: 1989 App. A in conjunction with the following specification: BS 4660: 1989 Cl. 6.3 BS 5481: 1977 App. G in conjunction with the following specification: BS 5481: 1977 Cl. 8.1.2 & 8.2.2

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Pipes (Unplasticized poly(vinyl chloride) (PVC) pipes) (cont'd)	Heat reversion test for unplasticized PVC pipe	BS 3506: 1969 App. A (Oven method) in conjunction with the following specification: BS 3506: 1969 Cl. 8.2 BS 2782: 1981 Method 1102B (Oven method) in conjunction with the following specification: BS 4660: 1989 Cl. 6.4 BS 5481: 1977 App. A (Oven method) in conjunction with the following specification: BS 5481: 1977 Cl. 8.1.4 & 8.2.3
	Resistance to acetone of unplasticized PVC pipe	BS 3506: 1969 App. B in conjunction with the following specification: BS 3506: 1969 Cl. 8.3
	Resistance to sulphuric acid of unplasticized PVC pipe	BS 3506: 1969 App. C in conjunction with the following specification: BS 3506: 1969 Cl. 8.4
	Short-term hydrostatic test for unplasticized PVC pipe	BS 3506: 1969 App. F in conjunction with the following specification: BS 3506: 1969 Cl. 9.3
	Long-term hydrostatic test for unplasticized PVC pipe	BS 3506: 1969 App. G in conjunction with the following specification: BS 3506: 1969 Cl. 9.4
	Vicat softening temperature of unplasticized PVC pipe	BS 2782: 1990 Method 120B in conjunction with the following specification: BS 4660: 1989 Cl. 6.4 BS 5481: 1977 Cl. 8.1.2
	Resistance to elevated temperature cycling of unplasticized PVC pipe and plastic fittings	BS 4660: 1989 App. E
	Water seal test for unplasticized PVC pipe	BS 4660: 1989 App. F
	Stress relief test for injection mouldings of unplasticized PVC pipe	BS 5481: 1977 App. B (Oven method) in conjunction with the following specification: BS 5481: 1977 Cl. 8.1.5
	Stress rupture test for unplasticized PVC pipe	BS 5481: 1977 App. C in conjunction with the following specification: BS 5481: 1977 Cl. 8.1.6

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Pipes (Unplasticized poly(vinyl chloride) (PVC) pipes) (cont'd)	Drop test for fabricated fittings of unplasticized PVC pipe	BS 5481: 1977 App. D in conjunction with the following specification: BS 5481: 1977 Cl. 8.1.7
Pipes (Unplasticized poly(vinyl chloride) (PVC-U) Fittings)	Dimensions	BS 2782: Part 11: Method 1101A: 1981
	Vicat softening temperature of thermoplastics	BS EN 1329-1: 2000 Cl. 8.2 and BS EN 727: 1995
	Effect of heating	BS EN 1329-1: 2000 Cl. 8.2 and BS EN 763: 1995 Method A
	Watertightness test	BS EN 1329-1: 2000 Cl. 9 and BS EN 1053: 1996
	Airtightness test	BS EN 1329-1: 2000 Cl. 9 and BS EN 1054: 1996
	Resistance to elevated temperature cycling	BS EN 1329-1: 2000 Cl. 9 and BS EN 1055: 1996
	Exposure to direct (natural) weathering	BS 2782: Part 11: Method 1107A: 1996
Polymer modified mortar and prebagged materials (chemical analysis)	Sample treatment	HKHA Standard 002: 1990 (Modified) Cl. 6
	Polymer solids content	HKHA Standard 002: 1990 (Modified) Cl. 8
	Cement content and sand/cement ratio (by CaO determination)	HKHA Standard 002: 1990 (Modified) Cl. 7
	Carbon dioxide content (Gasometric)	HKHA Standard 002: 1990 (Modified) Cl. 7.2
Polymer latex (chemical analysis)	Polymer solids content	HKHA Standard 002: 1990 (Modified) Cl. 2

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Pulverized fuel ash (PFA)	Activity index	BS EN 450-1: 2005
	Particle density	BS EN 196-6: 1992 Annex NC in conjunction with the following specification: BS 3892: Part 1: 1997 Cl. 7
	Fineness	BS 3892: Part 1: 1982 + Amd. 4629 App. D BS 3892: Part 1: 1997 Annex D BS EN 451-2: 1995
	Initial setting time	BS EN 196-3: 1995 in conjunction with the following specification: BS 3892: Part 1: 1997 Cl. 10 with modification BS EN 450-1: 2005
	Moisture content	BS 3892: Part 1: 1982 + Amd. 4629 App. B BS 3892: Part 1: 1997 Annex C
	Sampling of pulverized fuel ash	BS 3892: Part 1: 1982 BS EN 196-7: 1992
	Soundness	BS EN 196-3: 1995 in conjunction with the following specification: BS 3892: Part 1: 1997 Cl. 11 with modification BS EN 450-1: 2005
	Standard consistence	BS EN 196-3: 1995 in conjunction with the following specification: BS 3892: Part 1: 1997 Cl. 10 with modification
	Strength factor	BS 3892: Part 1: 1997 Annex F BS 3892: Part 1: 1997 Annex F with modification
	Water requirement	BS 3892: Part 1: 1982 + Amd. 4629 App. E BS 3892: Part 1: 1997 Annex E BS 3892: Part 1: 1997 Annex E with modification BS EN 450-1: 2005 Annex B

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Pulverized fuel ash (PFA) (chemical analysis)	Calcium oxide content (CaO)	In-house Method C-T-171
	Loss on ignition (L.O.I.)	BS EN 196-2: 2013 Cl. 4.4.1
	Total alkali content (equivalent Na_2O)	In-house Method C-T-078
	Sulfate content (as SO_3)	BS EN 196-2: 2013 Cl. 4.4.2
	Chloride content (Cl^-)	BS EN 196-2: 2013 Cl. 4.5.16
Portland pulverised fuel ash cement (PPFAC) (chemical analysis)	Proportion of PFA	In-house Method C-T-134
	Sulfate content (as SO_3)	BS EN 196-2: 2013 Cl. 4.4.2
	Chloride content (Cl^-)	BS EN 196-2: 2013 Cl. 4.5.16
	Loss on ignition (L.O.I.)	BS EN 196-2: 1995 Cl. 7

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Repair mortar	Air permeability	Hong Kong Housing Authority Materials Testing Services (2020/2022) for Maintenance & Building Materials Specification Part D Cl. 2.1.7 Hong Kong Housing Authority Specification Library (2012) CON 2.T120.6
	Compressive strength of repair mortar cubes in the force range 50 kN - 2000 kN	BS 6319: Part 2: 1983 Hong Kong Housing Authority Materials Testing Services (2020/2022) for Maintenance & Building Materials Specification Part D Cl. 2.1.1
	Consistence	BS 4551: 1998: Part 1
	Coutinho ring shrinkage	Hong Kong Housing Authority Materials Testing Services (2020/2022) for Maintenance & Building Materials Specification Part D Cl. 2.1.6
	Curing of test specimens	BS 6319: Part 1: 1983 Hong Kong Housing Authority Materials Testing Services (2020/2022) for Maintenance & Building Materials Specification Part D Cl. 2.1.1
	Density of repair mortar	BS 6319: Part 5: 1984
	Flow	BS 4551: 1998: Part 1 In-house Method P-T-008
	Long term shrinkage	Hong Kong Housing Authority Materials Testing Services (2020/2022) for Maintenance & Building Materials Specification Part D Cl. 2.1.21

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Repair mortar (cont'd)	Making of test specimens	BS 6319: Part 1: 1983 In-house Method K-T-111 Hong Kong Housing Authority Materials Testing Services (2020/2022) for Maintenance & Building Materials Specification Part D Cl. 2.1.1
	Modulus of elasticity in compression	BS 6319: Part 6: 1984 Hong Kong Housing Authority Materials Testing Services (2020/2022) for Maintenance & Building Materials Specification Part D Cl. 2.1.4
	Obtaining inspection core samples	Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance & Building Materials Specification Part D Cl. 2.1.22
	Tensile strength	BS 6319: Part 7: 1985 Hong Kong Housing Authority Materials Testing Services (2020/2022) for Maintenance & Building Materials Specification Part D Cl. 2.1.3
	Trial mixes	Hong Kong Housing Authority Materials Testing Services (2020/2022) for Maintenance & Building Materials Specification Part D Cl. 2.1.20

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Road surfaces	Luminance coefficient under defuse illumination (Qd) and retro-reflected luminance (RL) of road markings	BS EN 1436: 1998 Annex A & B excluding Annex B.7 BS EN 1436: 2007 + A1: 2008 Annex A & B excluding Annex B.7
	Permeability of friction course materials	General Specification for Civil Engineering Works (2006) Vol. 1 App. 9.1
	Rate of application and distribution of surface applied glass beads	BS 3262: Part 3: 1989 + Amd. 8785 App. A
	Rate of spread of binder	BS EN 12272-1: 2002(E)
	Size and spacing of runway surface grooving	In-house method A-T-035
	Skid resistance of road surfaces/markings using a portable pendulum tester	ASTM E 303-93(2013) BS EN 1436: 1998 Annex D BS EN 1436: 2007 + A1: 2008 Annex D Highways Department (Research and Development Division) Guidance Notes on Road Testing - RD/GN/009 (Sep 1989)
	Slip resistance of pedestrian surfaces using a pendulum tester	BS 7976: Part 2:2002 + A1:2013
	Surface regularity of carriageways (by 3 meter / rolling straightedge method)	General Specification for Civil Engineering Works (2006) Vol. 1 Cl. 10.55 Highways Department (Research and Development Division) Guidance Notes on Road Testing - RD/GN/009 (Sep 1989)
	Texture depth of carriageways (by sand patch test)	General Specification for Civil Engineering Works (2006) Vol. 1 App. 10.1 Highways Department (Research and Development Division) Guidance Notes on Road testing - RD/GN/009 (Sep 1989) Hong Kong Housing Authority Specification Library (2000) RAP 1.T710.3 – 1.T720.3 RAP 2.T910.3 – 2.T1010.3
	Thickness of road marking materials (by micrometer method)	BS 3262: Part 3: 1989 + Amd. 8785 App. B

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Screed	In-situ crushing resistance of bonded and unbonded levelling screeds	BS 8204: Part 1: 1987 App. B
Silica fumes	Activity index	EN 13263-1: 2005 Cl. 5.3.3 with modifications
	Dry mass content in slurry	EN 13263-1: 2005 Cl.5.3.2
Soil (Phase I)	In-situ bulk density and in-situ dry density of soils by the sand replacement method suitable for fine- and medium-grained soils (with small pouring cylinder)	GEOSPEC 3: 2001 Test 11.1
	In-situ bulk density and in-situ dry density of soils by the sand replacement method suitable for fine-, medium-, and coarse-grained soils (with large pouring cylinder)	GEOSPEC 3: 2001 Test 11.2
	In-situ bulk density and in-situ dry density of soils by nuclear densometer method suitable for fine- and medium-grained soils	GEOSPEC 3: 2001 Test 11.3
	Relative compaction of fill material	GEOSPEC 3: 2001 Test 11.4 Buildings Department PNAP 55 (1994) Cl. 2 App. A
Soil (other)	Dynamic cone penetrometer test	ASTM D6951/6951M-18
	GCO probe test	General Specification for Civil Engineering Works (1992) Vol. 1 App. 7.1
	Resistivity of soil by Wenner Probe method	BS 1377: Part 3: 1990 Cl. 10.3 (Amd. 9028)
	Redox potential	BS 1377: Part 3: 1990 Cl. 11 (Amd. 9028)

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Steel (chemical analysis)	Carbon content	In-house Method C-T-061
	Nickel content	ASTM E350-95 Cl. 180-187 ASTM E353-93 Cl. 172-179
	Phosphorus content	ASTM E350-95 Cl. 18-29 ASTM E353-93 Cl. 18-29
	Silicon content	ASTM E350-95 Cl. 46-52 ASTM E353-93 Cl. 46-52
	Sulfur content	In-house method C-T-062
	Aluminium, Chromium, Copper, Lead, Manganese, Molybdenum, Nickel, Tin, Vanadium	In-house method C-T-067 (by AAS)

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Steel (chemical analysis) - Carbon steel and low alloy steel	Elemental Composition :- - Carbon - Sulfur - Phosphorus - Nitrogen - Copper - Manganese - Chromium - Molybdenum - Vanadium - Nickel - Silicon	In-house method C-T-278 (Spark OES)
	Carbon equivalent value	In-house method C-T-279 (by calculation)
Metallic materials (chemical analysis) - Aluminum bronze	Elemental composition: Al, Bi, Cu, Fe, Pb, Mg, Mn, Ni, Si, Sn and Zn	In-house method C-T-301 (Spark OES)
- Gunmetal	Elemental composition: Al, Sb, As, Bi, Cu, Fe, Pb, Mn, Ni, P, Si, S, Sn, and Zn	In-house method C-T-302 (Spark OES)
- Brass	Elemental composition: Al, Sb, As, Cu, Fe, Pb, Mn, Ni, P, Si, Sn and Zn	In-house method C-T-303 (Spark OES)

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Structural fixings	Tensile load test of anchors and dowel bars by incremental loading in the force range 0.2 kN – 600 kN	BS 5080: Part 1: 1993 C1. 6, 7.1.1 & 7.1.3
	Tensile proof load test of anchors and dowel bars by incremental loading in the force range 0.2 kN – 600 kN	BS 5080: Part 1: 1993 C1. 6, 7.1.1 & 7.1.3 with modifications
	Tensile proof load test of drilled-in anchors used for works other than cantilevered structure/ hanger/curtain wall remedial works in the force range 1 kN – 300 kN	Buildings Department PNAP APP-169 (Oct 2023) App. B
	Tensile proof load test for cementitious or polymer based grouted bolts or dowels or reinforcing bars works in the force range 1 kN – 300 kN	Buildings Department PNAP APP-169 (Oct 2023) App. C
	Shear load test of anchors and dowel bars by incremental loading in the force range 0.2 kN – 600 kN	BS 5080: Part 2: 1986 + Amd. 7602 Cl. 4, 7.1, 7.2.1 & 7.2.3
	Shear proof load test of anchors and dowel bars by incremental loading in the force range 0.2 kN – 600 kN	BS 5080: Part 2: 1986 + Amd. 7602 Cl. 4, 7.1, 7.2.1, & 7.2.3 with modifications

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Tiles	Surface quality	BS 6431: Part 10: 1984 (Amd. 7099)
	Surface flatness	BS 6431: Part 10: 1984 (Amd. 7099)
	Rectangularity	BS 6431: Part 10: 1984 (Amd. 7099)
	Length and width	BS 6431: Part 10: 1984 (Amd. 7099)
	Straightness of sides	BS 6431: Part 10: 1984 (Amd. 7099)
	Thickness	BS 6431: Part 10: 1984 (Amd. 7099)
	Water absorption	BS 6431: Part 11: 1983 (Amd. 7100)
	Modulus of rupture	BS 6431: Part 12: 1983 (Amd. 7101)
	Mohs hardness	BS 6431: Part 13: 1986 (Amd. 7102)
	Resistance to deep abrasion of unglazed tiles	BS 6431: Part 14: 1983 (Amd. 7103) EN 102: 1991
	Linear thermal expansion of ceramic tiles	BS 6431: Part 15: 1983 (Amd. 7104) EN 103: 1991
	Resistance to thermal shock	BS 6431: Part 16: 1983 (Amd. 7105)
	Crazing resistance of glazed tiles	BS 6431: Part 17: 1983 (Amd. 7106) EN 105: 1991
	Resistance of unglazed tiles to chemical attack	BS 6431: Part 18: 1983 (Amd. 7107)
	Resistance of glazed tiles to chemical attack	BS 6431: Part 19: 1984 (Amd. 7108)
	Resistance to surface abrasion of glazed tiles	BS 6431: Part 20: 1984 (Amd. 7109)

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Tiles (cont'd)	Length and width of ceramic tiles	BS EN ISO 10545-2: 1997 Cl. 2
	Thickness of ceramic tiles	BS EN ISO 10545-2: 1997 Cl. 3
	Straightness of sides of ceramic tiles	BS EN ISO 10545-2: 1997 Cl. 4
	Rectangularity of ceramic tiles	BS EN ISO 10545-2: 1997 Cl. 5
	Surface flatness of ceramic tiles	BS EN ISO 10545-2: 1997 Cl. 6
	Surface quality of ceramic tiles	BS EN ISO 10545-2: 1997 Cl. 7
	Water absorption apparent porosity, apparent relative density and bulk density of ceramic tiles	BS EN ISO 10545-3: 1997
	Modulus of rupture and breaking strength of ceramic tiles	BS EN ISO 10545-4: 1997
	Impact resistance by measurement of coefficient of restitution	BS EN ISO 10545-5: 1998
	Resistance to deep abrasion of unglazed tiles	BS EN ISO 10545-6: 1997
	Resistance to surface abrasion of glazed tiles	BS EN ISO 10545-7: 1999 (without the portion to test for mass loss, colour change or gloss change)
	Linear thermal expansion of ceramic tiles	BS EN ISO 10545-8: 1996
	Resistance to thermal shock of ceramic tiles	BS EN ISO 10545-9: 1996
	Moisture expansion	BS EN ISO 10545-10: 1997
	Crazing resistance of glazed tiles	BS EN ISO 10545-11: 1996
	Chemical resistance of ceramic tiles	BS EN ISO 10545-13: 1997
	Resistance to stains of ceramic tiles	BS EN ISO 10545-14: 1997
	Lead and cadmium given off by glazed tiles	BS EN ISO 10545-15: 1997
	Small colour differences	BS EN ISO 10545-16: 2000

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Tiles (cont'd)	Static coefficient of friction of ceramic tiles	ASTM C1028-07
	Anti-slip property of floor coverings using Ramp test	DIN 51130: 2014-02 excluding Cl. 6
Tile adhesives	Initial tensile adhesion strength	BS EN 1348: 2007 BS EN 12004-2: 2017
	Tensile adhesion strength after water immersion	BS EN 1348: 2007 BS EN 12004-2: 2017
	Tensile adhesion strength after heat ageing	BS EN 1348: 2007 BS EN 12004-2: 2017
	Tensile adhesion strength after freeze–thaw cycles	BS EN 1348: 2007 BS EN 12004-2: 2017
	Open time: tensile adhesion strength	BS EN 1346: 2007 BS EN 12004-2: 2017
	Early tensile adhesion strength	BS EN 1348: 2007 BS EN 12004-2: 2017
	Slip	BS EN 1308: 2007 BS EN 12004-2: 2017

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Tile grout	Water absorption	ANSI A118.6-1992 Cl. H3.4
	Linear shrinkage	ANSI A118.6-1992 Cl. H4.3
	Tile group tensile adhesion compatibility with tile adhesive	BS 5980: 1980 + Amd. 5861 App. D with modifications
Water (chemical analysis)	Bicarbonate and carbonate contents	In-house Method C-T-194
	Chloride content	BS EN 1008: 2002 Cl. 6.1.3
	Total dissolved solids dried at 180℃	In-house method C-T-195
	Acid-soluble alkali content (equivalent Na_2O)	In-house Method C-T-182
	Sulphate content	BS EN 1008: 2002 Cl. 6.1.3

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Water closet suites		
- WC Pan	Connecting dimensions	BS EN 33: 2011 Cl. 2.2 Table 3 and 4 only, Cl. 4 Table 8 & Figure 2 and 3a only
	Visual examination	BS 3402: 1969 Cl. 5.1 & 5.4
	Determination of water absorption	BS EN 997: 2003 Cl. 5.8.3
	Crazing	BS 3402: 1969 Cl. 7 and App. B
	Chemical resistance	BS 3402: 1969 Cl. 8 and App. C
	Resistance to staining & burning	BS 3402: 1969 Cl. 9 and App. D
	Static load test	BS EN 997: 2003 Cl. 5.8.4
- Cistern	Shell thickness	BS 7357: 1990 Cl. 5.1.3 only
	Spill-over level	BS 7357: 1990 Cl. 12 and Figure 1
	Dead load test on operating mechanism – push button	BS 7357: 1990 App. H.3
	Visual examination	BS 3402: 1969 Cl. 5.2 and 5.4
- Diaphragm type float operated valves	Distortion for backnuts and inlet shank	BS 1212 Part 3: 1990 Cl. 13.1 and App. A
	Valve assembly test	BS 1212 Part 3: 1990 Cl. 13.2 and App. B
	Float attachment thread distortion test	BS 1212 Part 3: 1990 Cl. 13.3 and App. C
	Static pressure	BS 1212 Part 3: 1990 Cl. 14.1
	Shut-off pressure	BS 1212 Part 3: 1990 Cl. 14.2 and App. D
	Test for effect of dynamic pressure	BS 1212 Part 3: 1990 Cl. 14.3 and App. E
	Endurance test	BS 1212 Part 3: 1990 Cl. 17 and App. H
	Backflow prevention test	BS 1212 Part 3: 1990 Cl. 15 and App. F

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Water closet suites (cont'd)		
- Compact type float operated valves	Distortion for backnuts and inlet shank	BS 1212 Part 3: 1990 Cl. 13.1 and App. A with modifications
	Valve assembly test	BS 1212 Part 3: 1990 Cl. 13.2 and App. B with modifications
	Float attachment thread distortion test	BS 1212 Part 3: 1990 Cl. 13.3 and App. C with modifications
	Static pressure	BS 1212 Part 3: 1990 Cl. 14.1 with modifications
	Shut-off pressure	BS 1212 Part 3: 1990 Cl. 14.2 and App. D with modifications
	Test for effect of dynamic pressure	BS 1212 Part 3: 1990 Cl. 14.3 and App. E with modifications
	Endurance test	BS 1212 Part 3: 1990 Cl. 17 and App. H with modifications
	Backflow prevention test	BS 1212 Part 3: 1990 Cl. 15 and App. F with modifications
- WC Pans and WC suites with integral trap	Warning pipe and overflow provisions	BS EN 997: 2003 Cl. 6.17.2
	Physical endurance and leakage test of flushing device	BS EN 997: 2003 Cl. 6.17.5 with modification
	Chemical endurance test of flushing device	BS EN 997: 2003 Cl. 6.17.6
	Flushing volume and water trap seal tests	BS EN 997: 2003 Cl. 6.17.3
	Flush rate test	BS EN 997: 2003 Cl. 6.17.4
	Paper discharge for reduced-flush volume test (for dual flush only)	BS EN 997: 2003 Cl. 6.17.8
	Liquid contaminant dye retention test	BS EN 997: 2003 Cl. 6.17.9
	Wash of bowl	BS EN 997: 2003 Cl. 6.17.10

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Water closet suites (cont'd)		
- Completed assembly	Solid discharge and after-flush volume for maximum flush volume	BS EN 997: 2003 Cl. 6.17.7
Windows	Dimensional test - overall size	BS 1474: 1987
	Dimensional test - individual member	BS 1474: 1987 Cl. 7.4
	Visual inspection on coating	BS 3987: 1991 Cl. 3 & App. G
	Thickness of coating	BS EN ISO 1463: 1995 + Amd. No. 8495 BS EN ISO 1463: 2004 (excluding Annex B)

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Welds (non-destructive)	Liquid penetrant test (Colour contrast method)	BS EN 571-1: 1997 BS EN ISO 3452-1: 2013(E) BS EN ISO 3452-1: 2021 in conjunction with the following specification(s): BS EN ISO 5817: 2014 Table 1 BS EN ISO 5817: 2023 Table 1 BS EN ISO 23277: 2015 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel 2011 (2023 Ed.) Table 14.3b Hong Kong International Airport General Material & Workmanship Specification (GMWS) Issue No. 5a (2019) Vol. 1 – Civil & Structural Works Section 22.6.22
	Magnetic particle test (Magnetic flow method colour contrast technique using permanent magnets and A.C. yokes)	BS EN 1290: 1998 BS EN ISO 9934-1: 2016 BS EN ISO 17638: 2009 BS EN ISO 17638: 2016 in conjunction with the following specification(s): BS EN ISO 5817: 2014 Table 1 BS EN ISO 5817: 2023 Table 1 BS EN ISO 23278: 2009 BS EN ISO 23278: 2015 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel 2011 (2023 Ed.) Table 14.3b Hong Kong International Airport General Material & Workmanship Specification (GMWS) Issue No. 5a (2019) Vol. 1 – Civil & Structural Works Section 22.6.22
	Radiographic examination (Gamma Ray & X-ray)	BS EN 1435: 1997 + Amd. 14938 EN ISO 17636-1: 2013 in conjunction with the following specification(s): BS EN ISO 5817: 2014 Table 1 BS EN ISO 5817: 2023 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel 2011 (2023 Ed.) Table 14.3b Hong Kong International Airport General Material & Workmanship Specification (GMWS) Issue No. 5a (2019) Vol. 1 – Civil & Structural Works Section 22.6.22

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Welds (non-destructive) (cont'd)	Ultrasonic test (Butt welds in plates and pipes, 'T' joint welds, nozzle welds and node welds)	BS EN 1714: 1998 + Amd. 14941 (Level A, B, & C) BS EN ISO 17640: 2010 (Level A, B, & C) BS EN ISO 17640: 2018 (Level A, B, & C) in conjunction with the following specification(s): BS EN ISO 5817: 2014 Table 1 BS EN ISO 5817: 2023 Table 1 BS EN ISO 11666: 2010 BS EN ISO 11666: 2018 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel 2011 (2023 Ed.) Table 14.3b Hong Kong International Airport General Material & Workmanship Specification (GMWS) Issue No. 5a (2019) Vol. 1 – Civil & Structural Works Section 22.6.22
	Visual examination	BS EN 970: 1997 BS EN ISO 17637: 2011 BS EN ISO 17637: 2016 in conjunction with the following specification(s): BS EN ISO 5817: 2014 Table 1 BS EN ISO 5817: 2023 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel 2011 (2023 Ed.) Table 14.3b Hong Kong International Airport General Material & Workmanship Specification (GMWS) Issue No. 5a (2019) Vol. 1 – Civil & Structural Works Section 22.6.22
	Visual examination and bend test on stud connectors	<Visual examination as follows> BS EN 970: 1997 BS EN ISO 17637: 2011 BS EN ISO 17637: 2016 <together with the following bend test method(s)> Architectural Services Department General Specification for Building (2017) Cl. 15.57 BS 5400-6: 1999 + Corr. 1: 2002 Cl. 5.5.4(b) BS EN ISO 14555: 2017 Cl. 11.2, 11.3 (excluding Torque wrench method), 12.2 & 12.3 Buildings Department Code of Practice for the Structural Use of Steel (2011) Cl. 14.3.7.3 Buildings Department Code of Practice for the Structural Use of Steel 2011 (2023) Cl. 14.3.7.3

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Indoor Air Quality Testing	Microbiological tests:-	
Collectate samples on agar plate	Airborne bacteria count (number of colonies and corrected number of colonies on agar plate) (30 ℃ for 2 days)	In-house method B-T-009
Asbestos in bulk material	Bulk material sampling a) Spray coatings, acoustic plaster b) Thermal / Pipe insulation c) Insulating board, asbestos cement, gasket, floor coverings, textured coatings	 In-house Method G-T-020 In-house Method G-T-021 In-house Method G-T-022
Asbestos in bulk samples	Identification a) Determination for presence and type of asbestos in bulk materials	 In-house method G-T-023 EPA 600/R-93/116, (1993 Revised Method), Section 2.1 to 2.3
	b) Asbestos-containing material	Air Pollution Control Ordinance, Section 2 (G.N. 884 Gazette published on 14/02/2014 No. 07 Vol. 18)
Asbestos air-borne fibres and dust	Air sampling a) Background, Environmental & Reassurance Test	 HSG 248 (1st edition: 2006) Cl. 5
	b) Leakage Test	HSG 248 (1st edition: 2006) Cl. 5
	c) Personal & Work Area Static Test	HSG 248 (1st edition: 2006) Cl. 5
	d) Clearance Test	HSG 248 (1st edition: 2006) Cl. 5
Asbestos air-borne samples	Fibre counting	HSG 248 (1st edition: 2006) App. 1

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Water and Wastewater	Physical Examination :-	
	- pH Value	APHA 17e 4500-H^+ B
	- Turbidity	APHA 18e 2130 B
	- Conductivity	ASTM D1125-82 Method B *Excluding* Cl. 7
	- Salinity	In-house Method E-T-006 (Salinity meter)
	- Dissolved oxygen	APHA 17e 4500-0 G
	- Colour	In-house Method E-T-008 (Colorimetric)
	- Total Suspended Solids Dried at 103 -105℃	APHA 23e 2540 D
	- Total Solids Dried at 103 -105℃	APHA 17e 2540 B
	- Total Dissolved Solids dried at 180℃	APHA 17e 2540 C
	Trace Metals :- - Digestion Procedure	In-house Method E-T-189 (hydrochloric acid /nitric acid)
	- Aluminium, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Chromium, Cobalt, Copper, Iron, Lead, Manganese, Mercury, Molybdenum, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc, Tin	In-house Method E-T-190 (ICP-MS)
	- Hexavalent Chromium Cr (VI)	In-house Method E-T-188 (Colorimetric)
	- Trivalent Chromium Cr (III)	In-house Method E-T-193 (by calculation)
	Metals (Recoverable) :- - Aluminium, Cadmium, Copper, Iron, Lead, - Magnesium, Manganese, Nickel, Potassium, - Sodium, Zinc	APHA 18e 3030 A, B, F.3b & 3111 D APHA 18e 3030 A, B, F.3b & 3111 B
	- Chromium, Calcium	In-house Method ET-021(Flame AAS)
	- Mercury	In-house Method E-T-022 (Cold vapour AAS)

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Environmental Testing 環境測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Water and Wastewater (cont'd)	Non-metallic Constituents :-	
	- Total alkalinity (as $CaCO_3$)	APHA 17e 2320 B APHA 20e 2320 B (Indicator method)
	- Bicarbonate and carbonate content	In-house Method E-T-016 (Titrimetric)
	- Chloride	APHA 18e 4500 Cl^- B
	- Nitrogen (Nitrate)	APHA 23e 4500-NO_3-I
	- Nitrogen (Nitrite)	APHA 23e 4500-NO_2 A and NO_3-I
	- Nitrogen (Total oxidised)	APHA 23e 4500-NO_3-I
	- Nitrogen (Total Kjeldahl)	APHA 18e 4500-Norg B & 4500-NH_3E In-house Method E-T-037 (Colorimetric)
	- Nitrogen (Ammonia)	APHA 18e 4500-NH_3B & E APHA 23e 4500-NH_3-H In-house Method E-T-039 (Colorimetric)
	- Nitrogen (Unionised Ammonia)	In-house Method E-T-115 (By Calculation)
	- Nitrogen (Total Inorganic)	In-house Method E-T-112 (By Calculation)
	- Nitrogen (Total)	In-house Method E-T-114 (By Calculation)
	- Reactive Phosphorus	In-house Method E-T-055 (Colorimetric)
	- Total Phosphorus	
	Digestion	APHA 17e 4500-PB5
	Determination	In-house Method E-T-056 (Colorimetric)
	- Residual Free Chlorine	In-house Method E-T-066 (Colorimetric)
	- Total Residual Chlorine	In-house Method E-T-067 (Colorimetric)

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Water and Wastewater (cont'd)	Organic Pollutants :- - Oil and grease	 APHA 23e 5520B
	- Biochemical Oxygen Demand	BS 6068: Section 2.14: 1990 APHA 23e 5210B In-house method E-T-018
	- Chemical Oxygen Demand	APHA 23e 5220 B
	- Non-ionic surfactants (as CTAS)	In-house method E-T-099
	- Anionic Surfactants	In-house Method E-T-057 (Colorimetric)
	- Anionic Surfactants as MBAS	APHA 23e 5540 B & C (Colorimetric)
	- Total surfactants (Anionic and Non-ionic)	In-house method E-T-103 (by calculation)
	- Sulphate content	APHA 23e 4500-SO_4 E

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Environmental Testing 環境測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Water and Wastewater (cont'd)	Microbiological tests :- - *E. coli* count	DoE (1983) The Bacteriological Examination of Drinking Water Supplies, 1982 Membrane Filtration Procedure: Section 7.8, 7.9.4.2 Bacterial Confirmation: Section 7.9.4.4 & in-situ urease test
	-Total Coliform count	DoE (1983) The Bacteriological Examination of Drinking Water Supplies, 1982 Membrane Filtration Procedure: Sections 7.8, 7.9.4.1 Bacterial Confirmation: Section 7.9.4.3
	- Faecal Coliform count	DoE (1983) The Bacteriological Examination of Drinking Water Supplies, 1982 Membrane Filtration Procedure: Sections 7.8, 7.9.4.2 Bacterial Confirmation: Section 7.7.6.3
	- Heterotrophic Plate Count	APHA 20e 9215 A & B
	-Legionellae including *Legionella pneumophila*	AS/NZS 3896:1998 ISO 11731-2: 2004
	- Enumeration of *E. coli*	Environmental Microbiology Laboratory Test Method Manual TM09/EC/10/098 Issue 3, Environmental Protection Department, HKSAR
	-	

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Environmental Testing 環境測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Potable Water	Trace Metals :- (Soluble and Total recoverable)	
	- Digestion procedure	In-house Method E-T-096 (filtering) In-house Method E-T-097 (microwave)
	- Antimony, Arsenic, Barium, Cadmium, Chromium, Copper, Lead, Mercury, Molybdenum, Nickel, Selenium, Sliver	In-house Method E-T-098 (ICP-MS)
Saline Water	Physical Examination :-	
	- Suspended solids content	In-house Method E-T-053 (Gravimetric)
	- Total Suspended Solids Dried at 103 -105℃	APHA 23e 2540 D
	Trace Metals :-	
	- Digestion Procedure	In-house Method E-T-189 (hydrochloric acid /nitric acid)
	- Aluminium, Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Iron, Lead, Manganese, Mercury, Molybdenum, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc, Tin	In-house Method E-T-190 (ICP-MS)
	Non-Metallic Constituents :-	
	- Nitrogen (Nitrate)	APHA 23e 4500-NO_3-I
	- Nitrogen (Nitrite)	APHA 23e 4500-NO_2 A and NO_3-I
	- Nitrogen (Total oxidised)	APHA 23e 4500-NO_3-I
	- Nitrogen (Ammonia)	APHA 23e 4500-NH_3-H
	- Nitrogen (Total Inorganic)	In-house Method E-T-112 (By Calculation)
	- Nitrogen (Total)	In-house Method E-T-114 (By Calculation)

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Sediment and Soil	Trace Metals :- (Acid Leachable) - Digestion Procedure	In-house Method E-T-186 (hydrochloric acid /nitric acid)
	- Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Mercury, Molybdenum, Nickel, Selenium, Silver, Thallium, Tin, Vanadium, Zinc	In-house Method E-T-187 (ICP-MS)
	- Hexavalent Chromium Cr (VI)	In-house Method E-T-188 (Colorimetric)
	- Trivalent Chromium Cr (III)	In-house Method E-T-193 (by calculation)

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Sediment	Trace Metals :- (Acid Leachable) - Digestion procedure	 In-house Method E-T-093 (microwave)
	- Arsenic, Cadmium, Chromium, Copper, Lead, Mercury, Nickel, Silver, Zinc	In-house Method E-T-094 (ICP-MS)
	Toxicity Tests :-	
	10-D Amphipod Survival Test - *Leptocheirus plumulosus*	USEPA 600/R-94/025 June 1994 Test Method 100.4
	20-D Polychaete Growth and Survival Test – *Neanthes arenaceodentata*	Recommended Guidelines for Conducting Laboratory Bioassays on Puget Sound Sediments, PSEP, July 1995
	48-60 Hour Bivalve Larvae Survival and normality Test – *Crassostrea gigas*	Recommended Guidelines for Conducting Laboratory Bioassays on Puget Sound Sediments, PSEP, July 1995

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
HEPA filtered appliance including air mover and vacuum cleaner	Performance tests: - Visual inspection - Housing-leak test for air mover - Airflow capacity test for air mover - In-place leak test	 In-house method U-T-001 In-house method U-T-002 In-house method U-T-003 In-house method U-T-004

Class II (Type A1, A2, B1 and B2) biosafety cabinet	Mandatory field tests:
	- Downflow velocity profile test
	- Inflow velocity test
	- Airflow smoke patterns test
	- HEPA filter leak test
	- Cabinet integrity test (pressure decay or soap bubble test) for Type A1 cabinet
	- Site installation assessment tests
	  - Alarm functions
	  - Blower interlock
	  - Exhaust system performance (proper exhaust duct negative pressure and canopy performance)
	
	Optional worker comfort and safety tests:
	- Lighting intensity test
	- Vibration test
	- Noise level tests
		NSF/ANSI 49-2014 Annex F
		<Excluding the following>
		Cl. F.8

Cleanroom	Classification of air cleanliness by particle concentration	BS EN ISO 14644-1: 1999 BS EN ISO 14644-1: 2015 ***<Excluding the following>*** For the above two standards: M Descriptor, Sequential Sampling and Intermediate Cleanliness Classes
	Test methods for designated classification of airborne particulate cleanliness - Airflow test - Air pressure difference test - Installed filter system leakage tests	BS EN ISO 14644-3: 2005 Cl. 4.2.2 and B.4 Cl. 4.2.3 and B.5 Cl. 4.2.4, B.6.1, B.6.2, B.6.4, B.6.5 and B.6.7

Fugro Technical Services Limited
輝固技術服務有限公司
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

Environmental Testing 環境測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Fume cupboard	On-site tests: - Face velocity test - Extract volume flow rate test - Pressure drop test - Air flow visualization - Room air velocity test - Sound pressure measurement	BS EN 14175-4: 2004 Cl. 5.4 in conjunction with BS EN 14175-3: 2003 Cl. 5.2 Cl. 5.5 Cl. 5.6 in conjunction with BS EN 14175-3: 2003 Cl. 5.6 Cl. 5.7 Cl. 5.8 Cl. 5.11

Fugro Technical Services Limited
輝固技術服務有限公司
Lot 3250-A4 RP DD104, Ha San Wai, San Tin, Yuen Long, New Territories, Hong Kong
香港新界元朗新田下新圍第 104 約，地段第 3250A 及 4RP 部份

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related quantities		
- Force		
- Load cell with or without hydraulic jack	Calibration for compressive force in accordance with in-house method R-C-222 over the following ranges :	
	500 kN to 1000 kN	2.6 % of reading
	above 1000 kN to 4000 kN	2.2 % of reading
	above 4000 kN to 8000 kN	2.1 % of reading
	above 8000 kN to 12000 kN	2.1 % of reading

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Fugro Technical Services Limited
輝固技術服務有限公司
Lot 3250-A4 RP DD104, Ha San Wai, San Tin, Yuen Long, New Territories, Hong Kong
香港新界元朗新田下新圍第 104 約，地段第 3250A 及 4RP 部份

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Doors	Resistance to impact (hard body)	Hong Kong Housing Authority Specification Library (2022) COM5.M040.9(2)(i) Test 4
	Resistance to torsion	Hong Kong Housing Authority Specification Library (2022) COM5.M040.9(2)(j) Test 5
	Strength in the plane of door leaf	Hong Kong Housing Authority Specification Library (2022) COM5.M040.9(2)(k) Test 6
	Slamming open	Hong Kong Housing Authority Specification Library (2022) COM5.M040.9(2)(l) Test 7
	Slamming closed	Hong Kong Housing Authority Specification Library (2022) COM5.M040.9(2)(m) Test 8
	Resistance to jarring and vibration	Hong Kong Housing Authority Specification Library (2022) COM5.M040.9(2)(n) Test 9
	Resistance to impact (heavy body)	Hong Kong Housing Authority Specification Library (2022) COM5.M040.9(2)(o) Test 10
	Resistance to closing against an obstruction	Hong Kong Housing Authority Specification Library (2022) COM5.M040.9(2)(p) Test 11
Glass	Impact test of glass	ANSI Z97.1: 2004 BS 6206: 1981 + Amd. 4580, 5189, 7589, 8156 & 8693 excluding Cl. 6
	Fragmentation test for thermally toughened soda lime silicate safety glass	BS EN 12150-1: 2000
	Fragmentation test for heat soaked thermally toughened soda lime silicate safety glass	BS EN 14179-1: 2005

Fugro Technical Services Limited
輝固技術服務有限公司
Lot 3250-A4 RP DD104, Ha San Wai, San Tin, Yuen Long, New Territories, Hong Kong
香港新界元朗新田下新圍第 104 約，地段第 3250A 及 4RP 部份

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Manhole covers	Load test for manhole covers, road gully gratings and frames for drainage purpose	BS 497: Part 1: 1976 Cl. 7, 12, 13, 14 & App. A
	Mass determination & loading test of manhole covers, gully gratings & kerb overflow weirs	BS EN 124: 1994 Cl. 8 BS EN 124: 2015 Annex A & B Cl. 7.2, 7.3, 8.2 & 8.3
Metallic materials	Bend test of carbon steel bars	BS 4449: 1988 Cl. 10.2 CS2: 1995 Cl. 6.1 & 6.3
	Bond property of steel reinforcing bars by surface geometry measurement	BS EN ISO 15630-1: 2002 Cl. 10, 11.2 & 11.3 CS2: 2012 (Rev. 6) Cl. 6.1 & 6.7.2 in conjunction with the following specification(s): BS 4449: 2005 + A2 : 2009 Cl. 7.4
	Charpy 'V' notch impact test	BS EN 10045-1: 1990
	Mass per metre square, pitch and dimension of steel fabric for reinforcement of concrete	BS 4483: 1985 Cl. 5 & 9 BS 4483: 1998 Cl. 6 & 10 BS 4483: 2005 Cl. 7.3
	Mass per meter of steel reinforcing bars	BS 4449: 2005 + A2 : 2009 Cl. 7.3 CS2: 2012 (Rev. 6) Cl. 6.1 & 6.2
	Rebend test of carbon steel bars	BS 4449: 1988 Cl. 10.3 CS2: 1995 Cl. 6.1 & 6.4
	Rebend test of reinforcing bars, wire rod, wire, welded fabric or cold reduced wire for reinforcement of concrete	BS EN ISO 15630-1: 2002 Cl. 7 CS2: 2012 (Rev. 6) Cl. 6.1 & 6.5 in conjunction with the following specification(s): BS 4449: 1997 Cl. 11.3 & App. E.1.6 BS 4449: 2005 + A2: 2009 Cl. 7.2.5 BS 4482: 1985 Cl. 12.2 & App. C.5 BS 4483: 1985 Cl. 12.1 BS 4483: 1998 Cl. 13.1 BS 4483: 2005 Cl. 7.2.5 & 8.1.3.2

Fugro Technical Services Limited
輝固技術服務有限公司
Lot 3250-A4 RP DD104, Ha San Wai, San Tin, Yuen Long, New Territories, Hong Kong
香港新界元朗新田下新圍第 104 約，地段第 3250A 及 4RP 部份

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Metallic materials (cont'd)	Static tension test, static compression test, cyclic tension & compression tests for mechanical connector systems (Type 2 Splice) for steel reinforcing bars in the force range 5 kN – 1500 kN	ICC Evaluation Service, Inc. AC133 (Approved May 2008, Effective 1 Jun 2008) Cl. 4.1.2 with modifications ICC Evaluation Service, Inc. AC133 (Approved Jan 2010, Effective 1 Jul 2010) Cl. 4.1.2 with modifications in conjunction with the following specification(s): Buildings Department Code of Practice for Structural Use of Concrete (2013) Cl. 3.2.8.4 (b), (c) & (d)
	Tension & slip/permanent elongation test of reinforcing bar with a mechanical coupler in the force range 5 kN – 1500 kN	BS EN ISO 6892-1: 2009 Cl. 10.4 Method B & ISO 15835-2: 2018 Cl. 5.4 excluding Cl. 5.4.4 BS EN ISO 6892-1: 2019 Cl. 10.3.3 Method B & ISO 15835-2: 2018 Cl. 5.4 excluding Cl. 5.4.4 in conjunction with the following specification(s): BS 8110: Part 1: 1985 Cl. 3.12.8.16.2 BS 8110: Part 1: 1997 Cl. 3.12.8.16.2 Buildings Department Code of Practice for Structural Use of Concrete (2004) Cl. 3.2.8.2 Buildings Department Code of Practice for Structural Use of Concrete (2013) Cl. 3.2.8.3 General specification for Civil Engineering Works (2006) Vol. 2 Cl. 15.35 General specification for Civil Engineering Works (2020) Vol. 2 Cl. 15.35
	Tensile strength test of carbon steel bars in the force range 10 kN - 1500 kN	CS2: 1995 (up to 40 mm dia.) CS2: 1995 Section 5-Purchaser's tests (for 50mm dia.)
	Tensile test of reinforcing bars, wire rod, welded fabric or cold reduced wire for reinforcement of concrete in the force range 0.2 kN – 1500 kN	BS EN 10002-1: 2001 BS EN ISO 6892-1: 2009 Cl. 10.4 Method B BS EN ISO 6892-1: 2019 Cl. 10.3.3 Method B in conjunction with the following specification(s): BS 4449: 1988 Cl. 10.1 BS 4449: 2005 + A2:2009 Cl. 7.2.2, 7.2.3 & 8.1.3.1 BS 4482: 1985 Cl. 12.1 & App. C.3 BS 4483: 1998 Cl. 13.1 BS 4483: 2005 Cl. 7.2.2, 7.2.3, 8.1.3.1 & 9 CS2: 2012 (Rev. 6) Cl. 6.1 & 6.4

Fugro Technical Services Limited
輝固技術服務有限公司
Lot 3250-A4 RP DD104, Ha San Wai, San Tin, Yuen Long, New Territories, Hong Kong
香港新界元朗新田下新圍第 104 約，地段第 3250A 及 4RP 部份

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Metallic materials (cont'd)	Tensile test of metallic materials in the force range 10 kN - 1500 kN	BS 18: 1987 BS EN 10002-1: 2001 BS EN ISO 6892-1: 2019 Cl. 10.3.3 Method B in conjunction with the following specification(s): BS 4360: 1986 Cl. 23 BS 4360: 1990 Cl. 23 BS EN 10137-1: 1996 Cl.8.5.2.2 BS EN 10137-2: 1996 Cl. 7.4.1 & Table 2 BS EN 10137-3: 1996 Cl. 7.4.1 & Table 2 BS EN 10025: 1990 Cl. 7.4.1 & 8.6 & Table 5 BS EN 10155: 1993 Cl. 7.4.2 & 8.6.3.2 & Table 5 BS EN 10113-1: 1993 Cl. 8.6.2.1 BS EN 10113-2: 1993 Cl. 7.4.1 & Table 3 BS EN 10113-3: 1993 Cl. 7.4.1 & Table 3 BS EN 10210-1: 1994 Cl. 9.2.1 BS EN 10025: 1993 Cl. 7.4.1 Table 5 & 8.6.3.2 BS EN 10025-1: 2004 Cl. 10.2.1 BS EN 10025-2: 2004 Cl. 10.2 & Table 7 & Table 8 BS EN 10025-4: 2004 Cl. 10.2 & Table 5 BS EN 10210-1: 2006 Cl. 9.2.2 BS EN 10219-1: 1997/2006 Cl. 6.7.1 & 9.2.2 Table A3, B4 & B5 (excluding impact test)
	Tensile test of machined bolts and screws in the force range 10 kN – 1500 kN	BS 3692: 1967 Cl. 12 & App. D.1 BS EN 10002-1: 2001 BS EN ISO 6892-1: 2009 Cl. 10.4 Method B BS EN ISO 6892-1: 2019 Cl. 10.3.3 Method B in conjunction with the following specification(s): BS 3692: 2001 Cl. 11 & 13 BS EN ISO 898-1: 1999 Cl. 8.1
	Tensile test of unmachined bolts and screws in the force range 10 kN – 1500 kN	BS EN 10002-1: 2001 BS EN ISO 6892-1: 2009 Cl. 10.4 Method B BS EN ISO 6892-1: 2019 Cl. 10.3.3 Method B in conjunction with the following specification(s): BS 3692: 2001 Cl. 11 & 13 BS 4190: 2001 Cl. 15 & 20 BS EN ISO 898-1:1999 Cl. 8.2

Fugro Technical Services Limited
輝固技術服務有限公司
Lot 3250-A4 RP DD104, Ha San Wai, San Tin, Yuen Long, New Territories, Hong Kong
香港新界元朗新田下新圍第 104 約，地段第 3250A 及 4RP 部份

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Metallic materials (cont'd)	Proof load test of steel nuts in the force range 10 kN – 1500 kN	BS 3692: 2001 Annex C.1 BS 4190: 2001 Annex A.1
	Performance test of tension bonded epoxy coated carbon steel bars	BS 7295: Part 1: 1990 Cl. 4 + Amd. 6955 with modifications BS 3900: Part C5: 1997 (Method 6)
	Weld test of steel fabric for reinforcement of concrete	BS EN ISO 15630-2: 2002 Cl. 7 ISO 10287: 1992 in conjunction with the following specification(s): BS 4483: 1985 Cl. 13.2 BS 4483: 1998 Cl. 13.2 BS 4483: 2005 Cl. 7.2.2 & 7.2.4

Fugro Technical Services Limited
輝固技術服務有限公司
Lot 3250-A4 RP DD104, Ha San Wai, San Tin, Yuen Long, New Territories, Hong Kong
香港新界元朗新田下新圍第 104 約，地段第 3250A 及 4RP 部份

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Pipes	Crushing strength tests of concrete pipes	BS 5911: Part 100: 1988 (Amd. 6269 & 7588) Cl. 20.4 and App. D
	Hydrostatic test for concrete pipes	BS 5911: Part 100: 1988 (Amd. 6269 & 7588) Cl. 20.3 and App. F
	Dimension measurement of precast concrete pipes	In-house method T-T-313 in conjunction with the following specification(s): BS 5911: Part 100: 1988 + Amd. 7588 Cl. 9 and 10 BS 5911: Part 1: 2002 + A2 : 2010 Annex D in conjunction with the following specification(s): BS 5911: Part 1: 2002 + A2 : 2010 Cl. 5.4
	Water absorption test of precast concrete pipes and fittings	BS EN 1916: 2002 Cl. 6.7 & Annex F in conjunction with the following specification(s): BS EN 1916: 2002 Cl. 4.2.6.2
	Hydrostatic test of concrete pipes and fittings	BS EN 1916: 2002 Cl. 6.6 & Annex E (excluding joint assembly) in conjunction with the following specification(s): BS EN 1916: 2002 Cl. 4.3.7
	Crushing strength test of precast concrete pipes & fittings	BS EN 1916: 2002 Cl. 6.4 & Annex C in conjunction with the following specification(s): BS EN 1916: 2002 Cl. 4.3.5 BS 5911: Part 1: 2002 + A2: 2010 Cl. 5.6

Fugro Technical Services Limited
輝固技術服務有限公司
Lot 3250-A4 RP DD104, Ha San Wai, San Tin, Yuen Long, New Territories, Hong Kong
香港新界元朗新田下新圍第 104 約，地段第 3250A 及 4RP 部份

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Welds (destructive)	Bend test on welds in metallic materials	BS 709: 1983 Cl. 6 + Amd. 8909, 9146 & 9378 BS EN ISO 5173: 2010 + A1: 2011 BS EN 910: 1996
	Charpy V-notch impact test on welds in metallic materials	BS EN 875: 1995 BS 709: 1983 Cl. 11 + Amd. 8909, 9146 & 9378
	Fracture test on welds in metallic materials	BS 709: 1983 + Amd. 1, 2 & 3 BS EN 1320: 1997 BS EN ISO 9017: 2013 BS EN ISO 9017: 2018
	Impact test on welds in metallic materials using V-notch test pieces	BS EN 10045-1: 1990 BS EN ISO 148-1: 2010 BS EN ISO 148-1: 2016 in conjunction with the following specification(s): BS EN ISO 9016: 2012
	Longitudinal tensile test on welds in metallic materials in the force range 10 kN – 1500 kN	BS 709: 1983 BS EN 876: 1995
	Macroscopic examination on welds in metallic materials	BS 709: 1983 BS EN 1321 :1997 BS EN ISO 17639: 2013
	Nick-break test on welds in metallic materials	BS 709: 1983
	Transverse tensile test on welds in metallic materials in the force range 10 kN – 1500 kN	BS EN 895: 1995
	Tensile test on welds in metallic materials in the force range of 0.4 kN to 1500 kN	BS EN 10002-1: 2001 BS EN ISO 6892-1: 2009 Cl. 10.4 Method B BS EN ISO 6892-1: 2016 Cl. 10.3.3 Method B BS EN ISO 6892-1: 2019 Cl. 10.3.3 Method B in conjunction with the following specification(s): BS EN ISO 4136: 2012 BS EN ISO 5178: 2011
	Vickers hardness test across welded joints in the scale of HV 10, HV 30	BS 427: 1990 BS EN 1043-1: 1996 BS EN ISO 6507-1: 2005 BS EN ISO 6507-1: 2018
	Vickers hardness test on welds in metallic materials in the scale of HV5 and HV10	BS EN ISO 6507-1: 2005 in conjunction with the following specification(s): BS EN ISO 9015-1: 2011

Fugro Technical Services Limited
輝固技術服務有限公司
Lot 3250-A4 RP DD104, Ha San Wai, San Tin, Yuen Long, New Territories, Hong Kong
香港新界元朗新田下新圍第 104 約，地段第 3250A 及 4RP 部份

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Windows	Operating forces (top hung and side hung only)	BS EN 12046-1: 2003 in conjunction with the following specification: BS 6375: Part 2: 2009 Cl. 5.1
	Resistance to static torsion (top hung and side hung only)	BS EN 14609: 2004 in conjunction with the following specification: BS 6375: Part 2: 2009 Cl. 5.2.1
	Resistance to racking (top hung and side hung only)	BS EN 14608: 2004 in conjunction with the following specification: BS 6375: Part 2: 2009 Cl. 5.2.2
	Endurance tests of fastner/hardware (top hung and side hung only)	
	- Operation of fastener	SS212: 2007 Cl. 10.2.2 & Annex E Test 1
	- Movement of sash	SS212: 2007 Cl. 10.2.2 & Annex E Test 2
	- Endurance of fastener or hardware	SS212: 2007 Cl. 10.2.2 & Annex E Test 8
	Air permeability / leakage test	BS 6375: Part 1: 2009 Cl. 6 BS 6375: Part 1: 2015 + A1: 2016 Cl. 6 BS EN 1026: 2000 BS EN 1026: 2016 SS 212: 2007 Cl. 10.2.1.1, 10.2.1.4 & Annex A in conjunction with the following specification(s): BS EN 12207: 2000 BS EN 12207: 2016
	Watertightness test	BS 6375: Part 1: 2009 Cl. 7 BS 6375: Part 1: 2015 + A1: 2016 Cl. 7 BS EN 1027: 2000 BS EN 1027: 2016 SS 212: 2007 Cl. 10.2.1.2, 10.2.1.5 & Annex B in conjunction with the following specification(s): BS EN 12208: 2000
	Resistance to wind test	BS 6375: Part 1: 2009 Cl. 8 BS 6375: Part 1: 2015 + A1: 2016 Cl. 8 BS EN 12211: 2000 BS EN 12211: 2016 in conjunction with the following specification(s): BS EN 12210: 2000 BS EN 12210: 2016
	Water penetration test	ASTM E547-96 ASTM E547-00 (Reapproved 2016)

Fugro Technical Services Limited
輝固技術服務有限公司
Lot 8, Western Support Area, Three Runway System Project Site, Hong Kong International Airport, Lantau, Hong Kong
香港大嶼山香港國際機場三跑道系統項目地盤西面航空輔助設施用地第八地段

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Concrete	Curing of test specimens	CS1: 2010 Section 10
	Compressive strength of concrete cubes in the force range 50 kN – 3000 kN	CS1: 2010 Section 12
	Density of hardened concrete	CS1: 2010 Section 16
Soil (Phase I)	Sample preparation for Phase I tests	GEOSPEC 3: 2001 Test 4
	Moisture content by oven-drying at 45℃ ± 5℃	GEOSPEC 3: 2001 Test 5.1
	Moisture content by oven-drying at 105℃ ± 5℃	GEOSPEC 3: 2001 Test 5.2
	Comparative test for determination of moisture content by oven-drying	GEOSPEC 3: 2001 Test 5.3
	Particle size distribution by wet sieving (with dispersant)	GEOSPEC 3: 2001 Test 8.1
	Particle size distribution by wet sieving (without dispersant)	GEOSPEC 3: 2001 Test 8.2
	Particle size distribution by hydrometer (with dispersant)	GEOSPEC 3: 2001 Test 8.5
	Particle size distribution by hydrometer (without dispersant)	GEOSPEC 3: 2001 Test 8.6
	Construction of a continuous particle size distribution curve from the results of wet sieving and sedimentation tests	GEOSPEC 3: 2001 Test 8.7
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a 1000cc mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.1
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a 1000cc mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.2

Fugro Technical Services Limited
輝固技術服務有限公司
Lot 8, Western Support Area, Three Runway System Project Site, Hong Kong International Airport, Lantau, Hong Kong
香港大嶼山香港國際機場三跑道系統項目地盤西面航空輔助設施用地第八地段

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Soil (Phase I) (cont'd)	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a CBR mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.3
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a CBR mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.4
	Dry density / moisture content relationship of soils containing particles which are not susceptible to crushing (using a 1000cc mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.5
	Dry density / moisture content relationship of soils containing particles which are susceptible to crushing (using a 1000cc mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.6
	Dry density / moisture content relationship of soils containing particles which are not susceptible to crushing (using a CBR mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.7
	Dry density / moisture content relationship of soils containing particles which are susceptible to crushing (using a CBR mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.8

Fugro Technical Services Limited
輝固技術服務有限公司
Unit 2308-2313, 2315-2320, 23/F, Tower B, Regent Centre, 70 Ta Chuen Ping Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌打磚坪街 70 號麗晶中心 B 座 23 樓 2308-2313, 2315-2320 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Rock	Direct shear strength of jointed rock	ASTM D5607-95 with modifications
	Point load strength index of rock by diametral, axial, block and irregular lump tests	ASTM D5731-95 International Society for Rock Mechanics (1985) Suggested method for determining point load strength
	Preparation of rock core specimens and determination of dimensional and shape tolerances	ASTM D4543-85 (Re-approved 1991)
	Unconfined compressive strength of intact rock core specimens	ASTM D2938-95 with modifications
Soil (Phase I)	Sample preparation for Phase I tests	GEOSPEC 3: 2001 Test 4 GEOSPEC 3: 2017 Test 4
	Moisture content by oven-drying at 45°C ± 5°C	GEOSPEC 3: 2001 Test 5.1 GEOSPEC 3: 2017 Test 5.1
	Moisture content by oven-drying at 105°C ± 5°C	GEOSPEC 3: 2001 Test 5.2 GEOSPEC 3: 2017 Test 5.2
	Comparative test for the determination of moisture content by oven-drying	GEOSPEC 3: 2001 Test 5.3 GEOSPEC 3: 2017 Test 5.3
	Liquid limit, plastic limit and plasticity index	GEOSPEC 3: 2001 Test 6.1 GEOSPEC 3: 2017 Test 6.1
	Liquidity index	GEOSPEC 3: 2001 Test 6.2 GEOSPEC 3: 2017 Test 6.2
	Particle density by gas jar method	GEOSPEC 3: 2001 Test 7.1 GEOSPEC 3: 2017 Test 7.1
	Particle density by small pyknometer method	GEOSPEC 3: 2001 Test 7.2 GEOSPEC 3: 2017 Test 7.2
	Particle size distribution by wet sieving (with dispersant)	GEOSPEC 3: 2001 Test 8.1 GEOSPEC 3: 2017 Test 8.1
	Particle size distribution by wet sieving (without dispersant)	GEOSPEC 3: 2001 Test 8.2 GEOSPEC 3: 2017 Test 8.2

Fugro Technical Services Limited
輝固技術服務有限公司
Unit 2308-2313, 2315-2320, 23/F, Tower B, Regent Centre, 70 Ta Chuen Ping Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌打磚坪街 70 號麗晶中心 B 座 23 樓 2308-2313, 2315-2320 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Soil (Phase I) (cont'd)	Particle size distribution by hydrometer (with dispersant)	GEOSPEC 3: 2001 Test 8.5 GEOSPEC 3: 2017 Test 8.5
	Particle size distribution by hydrometer (without dispersant)	GEOSPEC 3: 2001 Test 8.6 GEOSPEC 3: 2017 Test 8.6
	Construction of a continuous particle size distribution curve from the results of wet sieving and sedimentation tests	GEOSPEC 3: 2001 Test 8.7 GEOSPEC 3: 2017 Test 8.7
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a 1000cc mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.1 GEOSPEC 3: 2017 Test 10.1
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a 1000cc mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.2 GEOSPEC 3: 2017 Test 10.2
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a CBR mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.3 GEOSPEC 3: 2017 Test 10.3
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a CBR mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.4 GEOSPEC 3: 2017 Test 10.4
	Dry density / moisture content relationship of soils containing particles which are not susceptible to crushing (using a 1000cc mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.5 GEOSPEC 3: 2017 Test 10.5
	Dry density / moisture content relationship of soils containing particles which are susceptible to crushing (using a 1000cc mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.6 GEOSPEC 3: 2017 Test 10.6
	Dry density / moisture content relationship of soils containing particles which are not susceptible to crushing (using a CBR mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.7 GEOSPEC 3: 2017 Test 10.7

Fugro Technical Services Limited
輝固技術服務有限公司
Unit 2308-2313, 2315-2320, 23/F, Tower B, Regent Centre, 70 Ta Chuen Ping Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌打磚坪街 70 號麗晶中心 B 座 23 樓 2308-2313, 2315-2320 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Soil (Phase I) (cont'd)	Dry density / moisture content relationship of soils containing particles which are susceptible to crushing (using a CBR mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.8 GEOSPEC 3: 2017 Test 10.8
	California Bearing Ratio (CBR)	BS 1377: Part 9: 1990 Cl. 4.3 GEOSPEC 3: 2001 Test 12.1 GEOSPEC 3: 2017 Test 12.1
	Density of soil by linear measurement method	BS 1377: Part 2: 1990 Cl. 7.2
Soil (Phase II)	Preparation of remoulded test specimens from disturbed soil samples	GEOSPEC 3: 2001 Test 13.2 GEOSPEC 3: 2017 Test 13.2
	Preparation of test specimens from undisturbed soil samples	GEOSPEC 3: 2001 Test 13.3 GEOSPEC 3: 2017 Test 13.3
	One-dimensional consolidation test	GEOSPEC 3: 2001 Test 14.1 GEOSPEC 3: 2017 Test 14.1
	Isotropic compression test in a triaxial cell	GEOSPEC 3: 2001 Test 14.2 GEOSPEC 3: 2017 Test 14.2
	Unconsolidated undrained triaxial compression test without pore pressure measurement	GEOSPEC 3: 2001 Test 15.1 GEOSPEC 3: 2017 Test 15.1
	Isotropically consolidated undrained triaxial compression test with pore pressure measurement	GEOSPEC 3: 2001 Test 15.2 GEOSPEC 3: 2017 Test 15.2
	Isotropically consolidated undrained triaxial compression test (loosely compacted fill materials) saturation use with carbon dioxide	GEOSPEC 3: 2001 Test 15.2 with modifications GEOSPEC 3: 2017 Test 15.2 with modifications
	Isotropically consolidated drained triaxial compression test with measurement volume change	GEOSPEC 3: 2001 Test 15.3 GEOSPEC 3: 2017 Test 15.3
	Direct shear test (small shear box apparatus)	GEOSPEC 3: 2001 Test 16.1 GEOSPEC 3: 2017 Test 16.1

Fugro Technical Services Limited
輝固技術服務有限公司
Unit 2308-2313, 2315-2320, 23/F, Tower B, Regent Centre, 70 Ta Chuen Ping Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌打磚坪街 70 號麗晶中心 B 座 23 樓 2308-2313, 2315-2320 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Admixture (chemical analysis)	Infrared analysis	BS EN 480-6: 1997
Ground water (chemical analysis)	Sulphate content	GEOSPEC 3: 2001 Test 9.3 GEOSPEC 3: 2017 Test 9.3
	pH value	GEOSPEC 3: 2001 Test 9.5 GEOSPEC 3: 2017 Test 9.5
Soil (chemical analysis)	Total sulphate content	GEOSPEC 3: 2001 Test 9.3 GEOSPEC 3: 2017 Test 9.3
	Water-soluble sulphate content	GEOSPEC 3: 2001 Test 9.3 GEOSPEC 3: 2017 Test 9.3
	Organic matter content	GEOSPEC 3: 2001 Test 9.1 GEOSPEC 3: 2017 Test 9.1
	Loss-on-ignition	GEOSPEC 3: 2001 Test 9.2 GEOSPEC 3: 2017 Test 9.2
	Water-soluble chloride content	GEOSPEC 3: 2001 Test 9.4 GEOSPEC 3: 2017 Test 9.4
	pH value	GEOSPEC 3: 2001 Test 9.5 GEOSPEC 3: 2017 Test 9.5
	Carbonate content	BS 1377: Part 3: 2018 Cl.8.3

Fugro Technical Services Limited
輝固技術服務有限公司
Unit 2308-2313, 2315-2320, 23/F, Tower B, Regent Centre, 70 Ta Chuen Ping Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌打磚坪街 70 號麗晶中心 B 座 23 樓 2308-2313, 2315-2320 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
- Stainless steel (304, 304H, 304L, 316, 316H, 316L, 1.4301, 1.4401, 1.4404, 022Cr19Ni10, 06Cr17Ni17Mo2, 022Cr17Ni12Mo2)	Elemental Composition :- - Carbon - Sulfur - Phosphorus - Silicon - Nitrogen - Copper - Manganese - Nickel - Chromium - Molybdenum	In-house method C-T-355 (Spark OES)

Fugro Technical Services Limited
輝固技術服務有限公司
Unit 2308-2313, 2315-2320, 23/F, Tower B, Regent Centre, 70 Ta Chuen Ping Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌打磚坪街 70 號麗晶中心 B 座 23 樓 2308-2313, 2315-2320 室

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Water and Wastewater	Physical Examination :-	
	- pH Value	APHA 24e 4500-H^+ B
	Non-metallic Constituents :-	
	- Nitrogen (Nitrate)	APHA 20e 4500-NO_3 E & F In-house Method E-T-080
	- Nitrogen (Nitrite)	APHA 20e 4500-NO_2^-A & NO_3^-F In-house Method E-T-084
	- Nitrogen (Total oxidised)	APHA 20e 4500-NO_3^-E & F In-house Method E-T-081 (FIA)
	- Nitrogen (Total Kjeldahl)	APHA 23e 4500-Norg D
	- Nitrogen (Ammonia)	In-house Method E-T-095 (Automation segmented flow-salicylate method)

Fugro Technical Services Limited
輝固技術服務有限公司
Unit 2308-2313, 2315-2320, 23/F, Tower B, Regent Centre, 70 Ta Chuen Ping Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌打磚坪街 70 號麗晶中心 B 座 23 樓 2308-2313, 2315-2320 室

Environmental Testing 環境測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Water and Wastewater (cont'd)	Organic Pollutants :-	
	- Tributyl tin	In-house Method E-T-089 (GC-MSD)
	- Tributyl tin in interstitial water	In-house Method E-T-101 (Preparation for Interstitial Water) In-house Method E-T-089 (GC/MS)
	- Polycyclic Aromatic Hydrocarbons: Acenaphthene Acenaphthylene Anthracene Benzo(a)anthracene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(g,h,i) perylene Benzo(a)pyrene Chrysene Dibenzo(a,h)anthracene Fluoranthene Fluorene Napthalene Indeno(1,2,3-c,d)pyrene Phenathrene Pyrene	In house method E-T-120 (GC/MSD)
	-Hexachlorobenzene -Bis-(2-ethylhexyl)phthalate -Phenol	In house method E-T-120 (GC-MSD)

Fugro Technical Services Limited
輝固技術服務有限公司
Unit 2308-2313, 2315-2320, 23/F, Tower B, Regent Centre, 70 Ta Chuen Ping Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌打磚坪街 70 號麗晶中心 B 座 23 樓 2308-2313, 2315-2320 室

Environmental Testing 環境測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Water and Wastewater (cont'd)	Organic Pollutants (cont'd) :- - Polychlorinated Biphenyl Congeners: 2,4'-Dichlorobiphenyl (8) 2,2',5 - Trichlorobiphenyl (18) 2,4,4' - Trichlorobiphenyl (28) 2,2',3,5' - Tetrachlorobiphenyl (44) 2,2', 5,5' - Tetrachlorobiphenyl (52) 2,3',4,4'-Tetrachlorobiphenyl (66) 3,3',4,4'-Tetrachlorobiphenyl (77) 2,2'4,5,5' - Pentachlorobiphenyl (101) 2,3,3',4,4' - Pentachlorobiphenyl (105) 2,3'4,4',5 - Pentachlorobiphenyl (118) 3,3',4,4',5 - Pentachlorobiphenyl (126) 2,2',3,3',4,4' - Hexachlorobiphenyl (128) 2,2',3,4,4',5' - Hexachlorobiphenyl (138) 2,2',4,4',5,5' - Hexachlorobiphenyl (153) 3,3',4,4',5,5'- Hexachlorobiphenyl (169) 2,2',3,3',4,4',5 - Heptachlorobiphenyl (170) 2,2',3,4,4',5,5' - Heptachlorobiphenyl (180) 2,2',3,4',5,5',6 - Heptachlorobiphenyl (187) 2,2',3,3',4,4',5,6 - Octachlorobiphenyl (195) 2,2',3,3',4,4',5,5',6 - Nonachlorobiphenyl (206) Total PCBs	In house method E-T-122 (GC/MSD)
	- TPH: C6 – C8 C9 – C16 C17 – C35	In house method E-T-127 (Purge & Trap GC/FID and GC/FID)
	Total Hydrocarbons	In house method E-T-127 (by calculation)
	- Volatile Organic Compounds: Acetone 2-Butanone Benzene Bromodichloromethane Chloroform Ethylbenzene Methyl tert-butylether Methylene chloride Styrene Tetrachloroethene Toluene Trichloroethene Xylenes (sum of meta & para, ortho)	In house method E-T-100 (Purge & Trap GC/MSD)

Fugro Technical Services Limited
輝固技術服務有限公司
Unit 2308-2313, 2315-2320, 23/F, Tower B, Regent Centre, 70 Ta Chuen Ping Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌打磚坪街 70 號麗晶中心 B 座 23 樓 2308-2313, 2315-2320 室

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Saline Water	Non-Metallic Constituents :- - Nitrogen (Total Kjeldahl)	 APHA 23e 4500-Norg D
	Organic Pollutants :- - Tributyl tin	 In-house Method E-T-089 (GC/MS)
	- Tributyl tin in interstitial water	In-house Method E-T-101(Preparation for Interstitial Water) In-house Method E-T-089 (GC/MS) Interstitial Water)
	Organic Pollutants (cont'd):- - Polycyclic Aromatic Hydrocarbons: Acenaphthene Acenaphthylene Anthracene Benzo(a)anthracene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(g,h,i) perylene Benzo(a)pyrene Chrysene Dibenzo(a,h)anthracene Fluoranthene Fluorene Napthalene Indeno(1,2,3-c,d)pyrene Phenathrene Pyrene	 In house method E-T-120 (GC/MSD)
	-Hexachlorobenzene -Bis-(2-ethylhexyl)phthalate -Phenol	In house method E-T-120 (GC/MSD)

Fugro Technical Services Limited
輝固技術服務有限公司
Unit 2308-2313, 2315-2320, 23/F, Tower B, Regent Centre, 70 Ta Chuen Ping Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌打磚坪街 70 號麗晶中心 B 座 23 樓 2308-2313, 2315-2320 室

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Saline Water (cont'd)	Organic Pollutants (cont'd):- - Polychlorinated Biphenyl Congeners: 2,4'-Dichlorobiphenyl (8) 2,2',5 - Trichlorobiphenyl (18) 2,4,4' - Trichlorobiphenyl (28) 2,2',3,5' - Tetrachlorobiphenyl (44) 2,2', 5,5' - Tetrachlorobiphenyl (52) 2,3',4,4'-Tetrachlorobiphenyl (66) 3,3',4,4'-Tetrachlorobiphenyl (77) 2,2'4,5,5' - Pentachlorobiphenyl (101) 2,3,3',4,4' - Pentachlorobiphenyl (105) 2,3'4,4',5 - Pentachlorobiphenyl (118) 3,3',4,4',5 - Pentachlorobiphenyl (126) 2,2',3,3',4,4' - Hexachlorobiphenyl (128) 2,2',3,4,4',5' - Hexachlorobiphenyl (138) 2,2',4,4',5,5' - Hexachlorobiphenyl (153) 3,3',4,4',5,5'- Hexachlorobiphenyl (169) 2,2',3,3',4,4',5 - Heptachlorobiphenyl (170) 2,2',3,4,4',5,5' - Heptachlorobiphenyl (180) 2,2',3,4',5,5',6 - Heptachlorobiphenyl (187) 2,2',3,3',4,4',5,6 - Octachlorobiphenyl (195) 2,2',3,3',4,4',5,5',6 - Nonachlorobiphenyl (206) Total PCBs	In house method E-T-122 (GC/MSD)
	- TPH: C6 – C8 C9 – C16 C17 – C35	In house method E-T-127 (Purge & Trap GC/FID and GC/FID)
	Total Hydrocarbons	In house method E-T-127 (by calculation)
	- Volatile Organic Compounds: Acetone 2-Butanone Benzene Bromodichloromethane Chloroform Ethylbenzene Methyl tert-butylether Methylene chloride Styrene Tetrachloroethene Toluene Trichloroethene Xylenes (sum of meta & para, ortho)	In house method E-T-100 (Purge & Trap GC/MSD)

Fugro Technical Services Limited
輝固技術服務有限公司
Unit 2308-2313, 2315-2320, 23/F, Tower B, Regent Centre, 70 Ta Chuen Ping Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌打磚坪街 70 號麗晶中心 B 座 23 樓 2308-2313, 2315-2320 室

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Sediment and Soil	Trace Metals :-	
	- TCLP Metals :- (Toxicity Characteristics Leaching Procedures) - Extraction Procedure	USEPA SW846 Method 1311 (E-T-191)
	- Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Mercury, Molybdenum, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc, Manganese, Tin	In-house Method E-T-192 (ICP-OES)
	Organic Pollutants - Polycyclic Aromatic Hydrocarbons: Acenaphthene Acenaphthylene Anthracene Benzo(a)anthracene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(g,h,i) perylene Benzo(a)pyrene Chrysene Dibenzo(a,h)anthracene Fluoranthene Fluorene Napthalene Indeno(1,2,3-c,d)pyrene Phenathrene Pyrene	In house method E-T-119 (GC/MSD) In-house method E-T-071 & E-T-072 (GC/MSD)
	- Phenol - Hexachlorobenzene - Bis-(2-ethylhexyl)phthalate	In house method E-T-119 (GC/MSD)

Fugro Technical Services Limited
輝固技術服務有限公司
Unit 2308-2313, 2315-2320, 23/F, Tower B, Regent Centre, 70 Ta Chuen Ping Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌打磚坪街 70 號麗晶中心 B 座 23 樓 2308-2313, 2315-2320 室

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Sediment and Soil (cont'd)	Organic Pollutants (cont'd):- - Polychlorinated Biphenyl Congeners: 2,4'-Dichlorobiphenyl (8) 2,2',5 - Trichlorobiphenyl (18) 2,4,4' - Trichlorobiphenyl (28) 2,2',3,5' - Tetrachlorobiphenyl (44) 2,2', 5,5' - Tetrachlorobiphenyl (52) 2,3',4,4'-Tetrachlorobiphenyl (66) 3,3',4,4'-Tetrachlorobiphenyl (77) 2,2'4,5,5' - Pentachlorobiphenyl (101) 2,3,3',4,4' - Pentachlorobiphenyl (105) 2,3'4,4',5 - Pentachlorobiphenyl (118) 3,3',4,4',5 - Pentachlorobiphenyl (126) 2,2',3,3',4,4' - Hexachlorobiphenyl (128) 2,2',3,4,4',5' - Hexachlorobiphenyl (138) 2,2',4,4',5,5' - Hexachlorobiphenyl (153) 3,3',4,4',5,5'- Hexachlorobiphenyl (169) 2,2',3,3',4,4',5 - Heptachlorobiphenyl (170) 2,2',3,4,4',5,5' - Heptachlorobiphenyl (180) 2,2',3,4',5,5',6 - Heptachlorobiphenyl (187) 2,2',3,3',4,4',5,6 - Octachlorobiphenyl (195) 2,2',3,3',4,4',5,5',6 - Nonachlorobiphenyl (206) - Total PCBs - TPH: C6 – C8 C9 – C16 C17 – C35 Total Hydrocarbons - Volatile Organic Compounds: Acetone 2-Butanone Benzene Bromodichloromethane Chloroform Ethylbenzene Methyl tert-butylether Methylene chloride Styrene Tetrachloroethene Toluene Trichloroethene Xylenes (sum of meta & para, ortho)	In house method E-T-088 (GC/MSD) In house method E-T-121 (GC/MSD) In house method E-T-121 (by calculation) In house method E-T-126 (Purge & Trap GC/FID and GC/FID) In house method E-T-126 (by calculation) In house method E-T-100 (Purge & Trap GC/MSD)

Fugro Technical Services Limited
輝固技術服務有限公司

Summary of Voluntary Suspension

.vs. denotes calibrations for which the accreditation has been voluntarily suspended with effect from 8 November 2024 (Notification Letter no. HOKLAS015-382).

Housing Department - Materials Testing Laboratory
房屋署 - 材料試驗所

ADDRESS 地址	:	Unit 1108, 11/F, Hoi Tai Factory Estate, Kin Fat Street, Tuen Mun, New Territories, Hong Kong 香港新界屯門建發街開泰工廠大廈十一樓 1108 室
ENQUIRY 查詢	:	Ir Tony MAK Tsz-yee Senior Structural Engineer/Laboratory 1 麥子怡先生，高級結構工程師(試驗所一)
TELEPHONE 電話	:	2374 6880
FAX 傳真	:	2725 1060
E-MAIL 電郵	:	tony.mak@housingauthority.gov.hk
WEBSITE ADDRESS 網址	:	http://www.housingauthority.gov.hk
CLIENTELE 服務對象	:	Government departments, not available for public testing 只服務政府部門

Housing Department - Materials Testing Laboratory
房屋署 - 材料試驗所

ADDRESS **地址**	:	Unit 163, 1/F, Unit 263, 2/F, Unit 345, 3/F & Unit 1108, 11/F, Hoi Tai Factory Estate, Kin Fat Street, Tuen Mun, New Territories, Hong Kong 香港新界屯門建發街開泰工廠大廈一樓 163 室、二樓 263 室、三樓 345 室及十一樓 1108 室
ACCREDITED TEST CATEGORIES **認可測試類別**	:	Calibration Services 校正服務 Construction Materials 建築材料

Housing Department - Materials Testing Laboratory

房屋署 - 材料試驗所

Unit 163, 1/F, Unit 263, 2/F, Unit 345, 3/F & Unit 1108, 11/F, Hoi Tai Factory Estate, Kin Fat Street, Tuen Mun, New Territories, Hong Kong

香港新界屯門建發街開泰工廠大廈一樓 163 室、二樓 263 室、三樓 345 室及十一樓 1108 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED[@]** 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related measurements		
- Length measuring instruments		
- Extensometer - Class 1 with gauge length from 100 mm to 250 mm	On-site calibration for displacement using calibration rig and verification of grade in in accordance with BS EN ISO 9513: 2002 over the following range :	
	0.01 mm to 10 mm	0.6 μm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Housing Department - Materials Testing Laboratory

房屋署 - 材料試驗所

Unit 163, 1/F, Unit 263, 2/F, Unit 345, 3/F & Unit 1108, 11/F, Hoi Tai Factory Estate, Kin Fat Street, Tuen Mun, New Territories, Hong Kong

香港新界屯門建發街開泰工廠大廈一樓 163 室、二樓 263 室、三樓 345 室及十一樓 1108 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related measurements		
- Force measurements		
- Force testing machines		
- Concrete testing machine	On-site calibration for compressive force using Class 1.0 load cells and verification of class in accordance with BS EN 12390-4: 2000: Annex B (constant true force method) over the following range :	
	40 kN to 3000 kN	0.32 % of reading
- Universal testing machine in compression mode	On-site calibration for compressive force using Class 1.0 load cells and verification of class in accordance with BS EN ISO 7500-1: 2004 (constant true force method) excluding clause 6.4.8 (determination of relative reversibility error) over the following range :	
	5 kN to 1800 kN	0.32 % of reading
- Universal testing machine in tension mode	On-site calibration for tension force using Class 1.0 load cells and verification of class in accordance with BS EN ISO 7500-1: 2004 (constant true force method) excluding clause 6.4.8 (determination of relative reversibility error) over the following range :	
	5 kN to 1800 kN	0.32 % of reading

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Housing Department - Materials Testing Laboratory
房屋署 - 材料試驗所
Unit 163, 1/F, Unit 263, 2/F, Unit 345, 3/F & Unit 1108, 11/F, Hoi Tai Factory Estate, Kin Fat Street, Tuen Mun, New Territories, Hong Kong
香港新界屯門建發街開泰工廠大廈一樓 163 室、二樓 263 室、三樓 345 室及十一樓 1108 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Aggregates	Particle size distribution	CS3: 2013 Section 10 + Amd. 1/2013 (by sieve analysis)
	Flakiness index	CS3: 2013 Section 11
	Elongation index	CS3: 2013 Section 12
	Methylene blue value	CS3: 2013 Section 13
	Aggregate impact value	CS3: 2013 Section 15
	Ten per cent fines value	CS3: 2013 Section 16
	Particle densities and water absorption	CS3: 2013 Section 17
	Moisture content	CS3: 2013 Section 18
Concrete	Curing of test specimens	CS1: 2010 Section 10
	Compressive strength of cubes in the force range 50 kN - 2000 kN	CS1: 2010 Section 12
	Compressive strength of concrete cores in the force range 50 kN - 2000 kN in the force range 50 kN - 2000 kN	 CS1: 2010 Section 15 CS1: 2010 Section 15 with modification
	Density of hardened concrete	CS1: 2010 Section 16
Foundation	Pile dynamic test (PDA)	ASTM D4945-08 ASTM D4945-12 ASTM D4945-17
	Crosshole sonic logging test (SOLT)	ASTM D6760-08 ASTM D6760-14 ASTM D6760-16
	Single-hole sonic logging test (SOLT)	ASTM D6760-08 ASTM D6760-14 ASTM D6760-16

Housing Department - Materials Testing Laboratory
房屋署 - 材料試驗所
Unit 163, 1/F, Unit 263, 2/F, Unit 345, 3/F & Unit 1108, 11/F, Hoi Tai Factory Estate, Kin Fat Street, Tuen Mun, New Territories, Hong Kong
香港新界屯門建發街開泰工廠大廈一樓 163 室、二樓 263 室、三樓 345 室及十一樓 1108 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Metallic materials	Bond property of steel reinforcing bars by surface geometry measurement	BS EN ISO 15630-1: 2002 Cl. 10 & 11.3.3 excluding Cl. 10.3.4 in conjunction with the following specification(s): BS 4449: 2005 + A2: 2009 Cl. 7.4 BS 4449: 2005 + A2: 2009 Cl. 7.4 with modifications CS2: 2012 + Amd. 1/2018 + Amd. 2/2018 Cl. 6.1 & 6.7 with modifications
	Charpy 'V' notch impact test	BS EN 10045-1: 1990 in conjunction with the following specification(s): BS EN 10025-1: 2004
	Mass per meter of steel reinforcing bars	BS 4449: 2005 + A2: 2009 + A3: 2016 Cl. 7.3 CS2: 2012 + Amd. 2/2018 Cl. 6.1 & 6.2
	Mass per unit area, pitch and dimension of steel fabric	In-house method DMG-B-429 In-house method DMG-B-430
	Rebend test of reinforcing bars, wire rod, welded fabric or cold reduced wire for reinforcement of concrete	BS EN ISO 15630-1: 2002 Cl. 7 in conjunction with the following specification(s): BS 4449: 2005 + A2: 2009 + A3: 2016 Cl. 7.2.5 BS 4483: 2005 Cl. 7.2.5 & 8.1.3.2 CS2: 2012 + Amd. 2/2018 Cl. 6.1 & 6.5
	Tension & slip/permanent elongation test of reinforcing bar with a mechanical coupler in the force range 5 kN – 1800 kN	In-house method DMG-B-428 in conjunction with the following specification(s): Buildings Department Code of Practice for Structural Use of Concrete (2013) Cl. 3.2.8.3 excluding June 2023 amendment
	Static tension test, static compression test, cyclic tension & compression tests for mechanical connector systems (Type 2 Splice) for steel reinforcing bars in the force range 5 kN – 1800 kN	ICC Evaluation Service, Inc. AC133 (Approved Jan 2010, Effective 1 Jul 2010) Cl. 4.1.2 with modifications in conjunction with the following specification(s): Buildings Department Code of Practice for Structural Use of Concrete (2013) Cl. 3.2.8.4(b), (c) & (d)
	Tensile test of metallic materials in the force range 5 kN – 1800 kN	BS EN 10002-1: 2001 in conjunction with the following specification(s): BS EN 10025-1: 2004 Cl. 7.3.1, 9.2.3.2 & 10.2.1 BS EN 10210-1: 2006 Cl. 6.6.1, 9.2.1 & 9.2.2 BS EN 10219-1: 2006 Cl. 6.7.1, 9.2.1 & 9.2.2

Housing Department - Materials Testing Laboratory
房屋署 - 材料試驗所
Unit 163, 1/F, Unit 263, 2/F, Unit 345, 3/F & Unit 1108, 11/F, Hoi Tai Factory Estate, Kin Fat Street, Tuen Mun, New Territories, Hong Kong
香港新界屯門建發街開泰工廠大廈一樓 163 室、二樓 263 室、三樓 345 室及十一樓 1108 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Metallic materials (cont'd)	Tensile test of reinforcing bars, wire rod, wire, welded fabric, cold reduced wire, steel fabric for reinforcement of concrete in the force range 5 kN - 1800 kN	BS EN 10002-1: 2001 BS EN ISO 6892-1: 2009 in conjunction with the following specification(s): BS 4449: 2005 + A2: 2009 + A3: 2016 Cl. 7.2.2, 7.2.3 & 8.1.3.1 BS 4483: 2005 Cl. 7.2.2, 7.2.3, 8.1.3.1 & 9 BS EN ISO 15630-1: 2002 Cl. 5 BS EN ISO 15630-2: 2002 Cl. 5 CS2: 2012 + Amd. 1/2016 + Amd. 2/2018 Cl. 6.1 & 6.4
	Weld shear test of steel fabric for reinforcement of concrete in the force range 5 kN – 100 kN	BS EN ISO 15630-2: 2002 Cl. 7 ISO 10287: 1992 in conjunction with the following specification(s): BS 4483: 2005 + Amd. 17105 Cl. 7.2.4

Quality Control Consultants Ltd.
品質管制顧問有限公司

ADDRESS : Unit D, 1/F, Valiant Industrial Centre, 2-12 Au Pui Wan Street,
地址 Fo Tan, Sha Tin, New Territories, Hong Kong
香港新界沙田火炭坳背灣街2-12號威力工業中心1樓D室

ENQUIRY : Mr NG Chi-kwan Kevin, Technical Manager
查詢 吳智坤先生，技術經理

TELEPHONE : 2665 7131
電話

FAX : 2664 2001
傳真

E-MAIL : kevin@qcchk.com
電郵

WEBSITE ADDRESS : http://www.qcchk.com/
網址

CLIENTELE : Public
服務對象 公眾

Quality Control Consultants Ltd.
品質管制顧問有限公司
ADDRESS
地址

Main Laboratory	:	Unit D, 1/F, Valiant Industrial Centre, 2-12 Au Pui Wan Street, Fo Tan, Sha Tin, New Territories, Hong Kong 香港新界沙田火炭坳背灣街 2-12 號威力工業中心 1 樓 D 室
Branch / Regional Laboratories	:	Yau Tong Steel Testing Laboratory G/F, 4 Tung Yuen Street, Yau Tong, Kowloon, Hong Kong 香港九龍油塘東源街 4 號地下 Unit D, 9/F, Unison Industrial Centre, 27-31 Au Pui Wan Street, Fo Tan, Sha Tin, New Territories, Hong Kong 香港新界沙田火炭坳背灣街 27-31 號協興工業中心 9 樓 D 室
Test Location	:	FuLuSha District, Sha Tian Town, Dong Guan City, Guang Dong Province, China 廣東省東莞市沙田鎮福祿沙村
ACCREDITED TEST CATEGORIES **認可測試類別**	:	Calibration Services 校正服務 Construction Materials 建築材料 Environmental Testing 環境測試

Quality Control Consultants Ltd.
品質管制顧問有限公司
Unit D, 1/F, Valiant Industrial Centre, 2-12 Au Pui Wan Street, Fo Tan, Sha Tin, New Territories, Hong Kong
香港新界沙田火炭坳背灣街 2-12 號威力工業中心 1 樓 D 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Construction materials testing equipment		
- Cement grout flow cone	Verification in accordance with in-house method QCC\CP89 for the dimensions and performance as specified in ASTM C939-97 Cl. 6.1 and 8	
	Dimensions: 5mm to 190 mm	0.04 mm
	Time of efflux from cone: 8.0 s	0.2 s
- Compacting bar	Verification in accordance with with in-house method QCC\CP41 for the dimensional and mass requirements as specified in CS1: 1990: Vol. 1 App. A9 (Amd. 1102), or CS1: 2010: Vol. 1 App. A10	
	Dimensions of ramming face: 25 mm x 25 mm	0.06 mm
	Length: 380 mm	0.06 mm
	Mass: 1.8 kg	2 g
- Concrete cube mould	Verification in accordance with in-house method QCC\CP10 for the dimensional requirements as specified in CS1: 1990: Vol. 1 App. A21 (excluding surface Texture determination), or CS1: 2010: Vol. 1 App. A25	
	Dimensions: 100 mm or 150 mm	0.06 mm
	Flatness: not more than 0.03 mm or 0.06 mm	0.01 mm
	Squareness / perpendicularity: not more than 0.5 mm	0.01 mm
	Parallelism: not more than 1 mm	0.06 mm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Quality Control Consultants Ltd.
品質管制顧問有限公司
Unit D, 1/F, Valiant Industrial Centre, 2-12 Au Pui Wan Street, Fo Tan, Sha Tin, New Territories, Hong Kong
香港新界沙田火炭坳背灣街 2-12 號威力工業中心 1 樓 D 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Construction materials testing equipment (cont'd)		
- Curing tank	On-site verification in accordance with in-house method QCC\CP3 and QCC\CP4 for the parameters as listed in CS1: 2010: Vol. 1 App. A28	
	Temperature distribution	0.82 K
	Efficiency of circulation	20 s
- Furnace	On-site calibration for temperature at different locations in furnace in accordance with in-house method QCC\CP22 over the following ranges:	
	200 ℃ to 550 ℃	3.4 K
	above 550 ℃ to 1200 ℃	4.9 K
- Liquid bath	On-site calibration for temperature at different locations in liquid bath in accordance with in-house method QCC\CP28 over the following ranges:	
	-10.00 ℃ to -5.00 ℃	0.38 K
	above -5.00 ℃ to 125.00 ℃	0.33 K
	above 125.00 ℃ to 150.00 ℃	0.20 K
	above 150.00 ℃ to 180.00 ℃	0.22 K
- Rebound hammer	Verification in accordance with in-house method QCC\CP36B by determining the rebound value using an anvil which complies with BS EN 12504-2: 2001 Cl. 4.2	1 rebound count

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Quality Control Consultants Ltd.
品質管制顧問有限公司
Unit D, 1/F, Valiant Industrial Centre, 2-12 Au Pui Wan Street, Fo Tan, Sha Tin, New Territories, Hong Kong
香港新界沙田火炭坳背灣街 2-12 號威力工業中心 1 樓 D 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Construction materials testing equipment (cont'd)		
- Slump cone	Verification in accordance with in-house method QCC\CP38 for the dimensional requirements as specified in CS1: 1990: Vol. 1 App. A4, or CS1: 2010: Vol. 1 App. A5	
	Internal diameter of top: 100 mm	0.24 mm
	Internal diameter of base: 200 mm	0.22 mm
	Wall thickness: minimum 1.5 mm	0.23 mm
	Height of cone: 300 mm	0.23 mm
- Tamping rod	Verification in accordance with in-house method QCC\CP38 for the dimensional requirements as specified in CS1: 1990: Vol. 1 App. A5 (Amd. 1102), or CS1: 2010: Vol. 1 App. A6	
	Diameter of rod: 16 mm	0.17 mm
	Length of rod: 600 mm	0.17 mm
- Temperature controlled enclosure	On-site calibration for temperature at different locations in temperature controlled enclosure in accordance with in-house method QCC\CP8 over the following ranges:	
	45.00 ℃ to 70.00 ℃	1.25 K
	above 70.00 ℃ to 180.00 ℃	1.49 K
	On-site calibration of evaporation rate at 105 ℃ in accordance with in-house method QCC\CP8 at:	
	15 g/hr	0.1 g/hr

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Quality Control Consultants Ltd.
品質管制顧問有限公司
Unit D, 1/F, Valiant Industrial Centre, 2-12 Au Pui Wan Street, Fo Tan, Sha Tin, New Territories, Hong Kong
香港新界沙田火炭坳背灣街 2-12 號威力工業中心 1 樓 D 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Length and related measurement - Length measurement instrument		
- Calliper	Calibration for length in accordance with in-house method QCC\CP5 over the following ranges:	
- Digital type	0.4 mm to 300 mm	0.034 mm
- Vernier type	0.4 mm to 600 mm	0.034 mm
- Dial gauge and digital displacement transducer	Calibration for length in accordance with following in-house methods : QCC\CP60A (Analogue Dial Gauge for settings specified in BS 907:1965 App. B3), QCC\CP60B (Analogue Dial Gauge for settings specified in AS 2103:1978 App. A5), QCC\CP60C (Digital Dial Gauge & Displacement Transducer for settings specified in BS 907:1965App. B3), QCC\CP60D (Digital Dial Gauge & Displacement Transducer for settings specified in AS 2103:1978 App. A5) over the following ranges:	
- Dial gauge with scale divisions of 0.001 mm ,	0.02 mm to 1.0 mm above 1.0 mm to 5.0 mm	1.5 μm 5.2 μm
- Dial gauge with scale divisions of 0.002 mm	0.02 mm to 1.0 mm above 1.0 mm to 5.0 mm above 5.0 mm to 10 mm above 10 mm to 12.7 mm	1.9 μm 5.4 μm 10.0 μm 14.0 μm
- Dial gauge with scale divisions of 0.01 mm	0.2 mm to 12.7 mm above 12.7 mm to 50.0 mm	0.016 mm 0.052 mm
- Digital displacement transducer with resolution of 0.001 mm	0.04 mm to 1.0 mm above 1.0 mm to 5.0 mm above 5.0 mm to 10.0 mm above 10.0 mm to 50.0 mm	3.3 μm 5.9 μm 10.7 μm 55 μm
- Digital displacement transducer with resolution of 0.01 mm	0.2 mm to 12.7 mm above 12.7 mm to 50.0 mm	0.019 mm 0.053 mm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Quality Control Consultants Ltd.
品質管制顧問有限公司
Unit D, 1/F, Valiant Industrial Centre, 2-12 Au Pui Wan Street, Fo Tan, Sha Tin, New Territories, Hong Kong
香港新界沙田火炭坳背灣街 2-12 號威力工業中心 1 樓 D 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Length and related measurement (cont'd) - Length measurement instrument (cont'd)		
- Digital displacement transducer	Calibration for length in accordance with in-house method QCC\CP60E over the following range:	
	0.8 mm to 50 mm	0.071 mm
- Engineer's steel rule	Calibration for length in accordance with in-house method QCC\CP30 over the following range:	
	7 mm to 1000 mm	0.62 mm
- Extensometer	On-site calibration for displacement using digital calibration rig and verification of grade in accordance with BS 3846: 1970 (excluding the determination of calibration factor) over the following ranges :	
- Grade B, C, D, E or F for gauge length from 50 mm to 600 mm	0.01 mm to 2 mm above 2 mm to 25 mm	1 µm 11 µm
- Class 0.5, 1 or 2 for gauge length from 50 mm to 600 mm	On-site calibration for displacement using digital calibration rig and verification of class in accordance with BS EN 10002-4: 1995, or BS EN ISO 9513: 2002 over the following range :	
	0.01 mm to 2 mm above 2 mm to 25 mm	1 µm 11 µm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Quality Control Consultants Ltd.
品質管制顧問有限公司
Unit D, 1/F, Valiant Industrial Centre, 2-12 Au Pui Wan Street, Fo Tan, Sha Tin, New Territories, Hong Kong
香港新界沙田火炭坳背灣街 2-12 號威力工業中心 1 樓 D 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related measurement (cont'd) - Length measurement instrument (cont'd) - Feeler & thickness gauge	Calibration for mean thickness in accordance with in-house method QCC\CP13A over the following ranges: 0.01 mm to 5.0 mm	 2 μm
- Measuring tape	Calibration for length in accordance with in-house method QCC\CP54 over the following ranges: 0.08 m to 5.0 m above 5.0 m to 30.0 m above 30.0 m to 50.0 m above 50.0 m to 100.0 m	 0.73 mm 1.80 mm 2.30 mm 4.42 mm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Quality Control Consultants Ltd.
品質管制顧問有限公司
Unit D, 1/F, Valiant Industrial Centre, 2-12 Au Pui Wan Street, Fo Tan, Sha Tin, New Territories, Hong Kong
香港新界沙田火炭坳背灣街 2-12 號威力工業中心 1 樓 D 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related measurement - Weight and balance - Electronic balance	Calibration for mass using following OIML Class standard weights (1) F1 weights from 1 mg to 20 kg (2) F2 weights from 1 mg to 20 kg in accordance with in-house method QCC\CP6 over the following ranges : 1 mg to 100 g above 100 g to 250 g above 250 g to 600 g above 600 g to 6.2 kg above 6.2 kg to 21 kg above 21 kg to 30 kg above 30 kg to 75 kg On-site calibration for mass using following OIML Class standard weights (1) F1 weights from 1 mg to 20 kg (2) F2 weights from 1 mg to 20 kg in accordance with in-house method QCC\CP6 over the following ranges : 1 mg to 100 g above 100 g to 250 g above 250 g to 600 g above 600 g to 6.2 kg above 6.2 kg to 21 kg above 21 kg to 30 kg above 30 kg to 75 kg	 <

Quality Control Consultants Ltd.
品質管制顧問有限公司
Unit D, 1/F, Valiant Industrial Centre, 2-12 Au Pui Wan Street, Fo Tan, Sha Tin, New Territories, Hong Kong
香港新界沙田火炭坳背灣街 2-12 號威力工業中心 1 樓 D 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related measurement (cont'd) - Weight and balance (cont'd) - Weight (Non-standard values)	Calibration for mass in accordance with in-house method QCC\CP7 over the following ranges :	
	1 mg to 10 g	0.068 mg
	above 10 g to 100 g	0.38 mg
	above 100 g to 200 g	0.45 mg
	above 200 g to 1 kg	29 mg
	above 1 kg to 3 kg	80 mg
	above 3 kg to 4 kg	0.23 g
	above 4 kg to 15 kg	0.88 g
	above 15 kg to 30 kg	3.3 g
	above 30 kg to 60 kg	14.4 g
	above 60 kg to 75 kg	31 g

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Quality Control Consultants Ltd.
品質管制顧問有限公司
Unit D, 1/F, Valiant Industrial Centre, 2-12 Au Pui Wan Street, Fo Tan, Sha Tin, New Territories, Hong Kong
香港新界沙田火炭坳背灣街 2-12 號威力工業中心 1 樓 D 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related measurement (cont'd) - Force measurement - Pull off tester	Calibration for lifting force in accordance with in-house procedure QCC\CP61G over the following range: 0.1 kN up to 16 kN	 0.3 % to 2.5 % of reading

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Quality Control Consultants Ltd.
品質管制顧問有限公司
Unit D, 1/F, Valiant Industrial Centre, 2-12 Au Pui Wan Street, Fo Tan, Sha Tin, New Territories, Hong Kong
香港新界沙田火炭坳背灣街 2-12 號威力工業中心 1 樓 D 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related measurement (cont'd) - Force measurement (cont'd) - Concrete testing machine	On-site calibration for compressive force using Grade 1.0 load cells and verification for grade in accordance with BS 1610: Part 1: 1992 (true force method) over the following range: 0.1 kN to 3000 kN On-site calibration for compressive force using Class 1.0 load cells and verification for class in accordance with CS1: 2010 App. D1, or BS EN 12390-4: 2000 Annex B (true force method for above two standards) over the following range: 0.1 kN to 3000 kN On-site verification for strain ratio by performing strain gauged column and proving test (stability test) in accordance with BS 1881: Part 115: 1986 (Amd. 6536), CS1: 2010 App. D2 and D3, or BS EN 12390-4: 2000 Table 3 and Annex A over the following range of compressive force: 200 kN to 2000 kN	 0.32 % of reading 0.32 % of reading 0.02 strain ratio

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Quality Control Consultants Ltd.
品質管制顧問有限公司
Unit D, 1/F, Valiant Industrial Centre, 2-12 Au Pui Wan Street, Fo Tan, Sha Tin, New Territories, Hong Kong
香港新界沙田火炭坳背灣街 2-12 號威力工業中心 1 樓 D 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related measurement (cont'd) - Force measurement (cont'd) - Universal testing machine in compression mode	On-site calibration for compressive force using Grade 1.0 load cells and verification for grade in accordance with BS 1610: Part 1: 1992 (true force method) over the following range:	
	0.1 kN to 1000 kN	0.32 % of reading
	On-site calibration for compressive force using Class 1.0 load cells and verification for class in accordance with BS EN ISO 7500-1: 2004 (true force method) over the following range:	
	0.1 kN to 1000 kN	0.32 % of reading

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Quality Control Consultants Ltd.
品質管制顧問有限公司
Unit D, 1/F, Valiant Industrial Centre, 2-12 Au Pui Wan Street, Fo Tan, Sha Tin, New Territories, Hong Kong
香港新界沙田火炭坳背灣街 2-12 號威力工業中心 1 樓 D 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Temperature and humidity measurement - Temperature measurement - Analogue thermometer with external sensor	Calibration for temperature in accordance with in-house method QCC\CP2C over the following ranges: 0.0 ℃ to 50.0 ℃ above 50.0 ℃ to 100.0 ℃	 0.32 K 0.62 K
- Analogue thermometer without external sensor	Calibration for temperature in accordance with in-house method QCC\CP2C over the following range: 10.0 ℃ to 40.0 ℃	 0.40 K
- Dial thermometer with external sensor	Calibration for temperature in accordance with in-house method QCC\CP2C over the following range: 0.0 ℃ to 180.0 ℃	 2.0 K

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Quality Control Consultants Ltd.
品質管制顧問有限公司
Unit D, 1/F, Valiant Industrial Centre, 2-12 Au Pui Wan Street, Fo Tan, Sha Tin, New Territories, Hong Kong
香港新界沙田火炭坳背灣街 2-12 號威力工業中心 1 樓 D 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Temperature and humidity measurement (cont'd)		
- Temperature measurement (cont'd)		
- Digital thermometer with external sensor	Calibration for temperature in accordance with in-house methods QCC\CP2C over the following ranges:	
- resolution of 0.01 ℃	-10.00 ℃ to -0.01 ℃	0.17 K
	0.00 ℃ to 30.00 ℃	0.18 K
	above 30.00 ℃ to 125.00 ℃	0.18 K
	above 125.00 ℃ to 150.00 ℃	0.18 K
	above 150.00 ℃ to 180.00 ℃	0.18 K
- resolution of 0.1 ℃	-10.0 ℃ to 125.0 ℃	0.29 K
	above 125.0 ℃ to 180.0 ℃	0.29 K
- resolution of 1.0 ℃	-10.0 ℃ to 180.0 ℃	1.9 K
	Calibration for temperature using high temperature calibrator in accordance with in-house methods QCC\CP2E over the following ranges:	
- resolution of 1.0 ℃	180 ℃ to 1200 ℃	3.4 K
- Digital thermometer without external sensor	Calibration for temperature in accordance with in-house method QCC\CP2C over the following ranges:	
- resolution of 1.0 ℃	10.0 ℃ to 40.0 ℃	0.21 K
- Liquid in glass thermometer	Calibration for temperature in accordance with in-house method QCC\CP2A over the following ranges:	
	-10.00 ℃ to -0.01 ℃	0.16 K
	0.00 ℃ to 30.00 ℃	0.18 K
	above 30.00 ℃ to 50.00 ℃	0.18 K
	above 50.00 ℃ to 110.00 ℃	0.18 K
	above 110.00 ℃ to 125.00 ℃	0.24 K
	above 125.00 ℃ to 150.00 ℃	0.3 K
	above 150.00 ℃ to 180.00 ℃	0.35 K

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Quality Control Consultants Ltd.
品質管制顧問有限公司
Unit D, 1/F, Valiant Industrial Centre, 2-12 Au Pui Wan Street, Fo Tan, Sha Tin, New Territories, Hong Kong
香港新界沙田火炭坳背灣街 2-12 號威力工業中心 1 樓 D 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Temperature and humidity measurement (cont'd) - Humidity measurement - Relative humidity measurement instrument	Calibration for relative humidity in accordance with in-house method QCC\CP34B at 20 ℃ and 27 ℃ over the following ranges: 40 % rh to 50 % rh above 50 % rh to 70 % rh above 70 % rh to 90 % rh	 3.6 % rh 3.9 % rh 5.2 % rh

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Quality Control Consultants Ltd.
品質管制顧問有限公司
Unit D, 9/F, Unison Industrial Centre, 27-31 Au Pui Wan Street, Fo Tan, Sha Tin, New Territories, Hong Kong
香港新界沙田火炭坳背灣街 27-31 號協興工業中心 9 樓 D 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related measurement - Force measurement - Load cell	Calibration for compressive force in accordance with in-house procedure QCC\CP61B over the following range: 5 kN to 50 kN	 0.21 % of reading
- Proving ring	Calibration for compressive force in accordance with in-house procedure QCC\CP61C over the following range: 0.1 kN to 50 kN	 0.2 % of reading

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Quality Control Consultants Ltd.
品質管制顧問有限公司
Unit D, 9/F, Unison Industrial Centre, 27-31 Au Pui Wan Street, Fo Tan, Sha Tin, New Territories, Hong Kong
香港新界沙田火炭坳背灣街 27-31 號協興工業中心 9 樓 D 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Adhesive	Pull-off test of tiles in the force range 1 kN – 16 kN	In-house method QCC\LP26-01 (saw-cut method) In-house method QCC\LP26-01 (coring method)
	Pull-off test of adhesive in the force range 1 kN – 16 kN	In-house method QCC\LP26-02
Admixture	Setting time	BS EN 480-2: 2006
Admixture (chemical analysis)	Ash content	BS 5075: Part 1: 1982 App. D2 (Amd. 4910)
	Dry material content	BS 5075: Part 1: 1982 App. D1 (Amd. 4910)
	Conventional dry material content	BS EN 480-8: 1997 BS EN 934-1: 2008 Cl. 4 & BS EN 934-2: 2009 Cl. 4.1 & BS EN 480-8: 2012
	pH value of liquid admixtures	In-house method QCC/LP 6-06 BS EN 934-1: 2008 Cl. 4 & BS EN 934-2: 2009 Cl. 4.1 & ISO 4316: 1977
	Sodium oxide content	In-house method QCC/LP 6-08 BS EN 480-12: 1998 BS EN 480-12: 2005
	Potassium oxide content	In-house method QCC/LP 6-08 BS EN 480-12: 1998 BS EN 480-12: 2005
	Alkali content	In-house Method QCC/LP 6-08 BS EN 480-12: 1998 BS EN 934-1: 2008 Cl. 4 & BS EN 934-2: 2009 Cl. 4.1 & BS EN 480-12: 2005
	Relative density of liquid admixtures	BS 5075: Part 1: 1982 App. D3 (Amd. 4910)
	Density	ISO 758: 1976

Quality Control Consultants Ltd.
品質管制顧問有限公司
Unit D, 9/F, Unison Industrial Centre, 27-31 Au Pui Wan Street, Fo Tan, Sha Tin, New Territories, Hong Kong
香港新界沙田火炭坳背灣街 27-31 號協興工業中心 9 樓 D 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Admixture (chemical analysis)	Chloride ion content	BS 5075: Part 1: 1982 App. E (Amd. 4910)
(cont'd)	Water soluble chloride content	BS EN 934-1: 2008 Cl. 4 & BS EN 934-2: 2009 Cl. 4.1 & BS EN 480-10: 1997 BS EN 480-10: 2009
Aggregates	Sampling	CS3: 2013 Section 8
	Particle size distribution	CS3: 2013 Section 10
	Flakiness index	CS3: 2013 Section 11
	Elongation index	CS3: 2013 Section 12
	Methylene blue value	CS3: 2013 Section 13
	Los Angeles value	CS3: 2013 Section 14
	Aggregate impact value	CS3: 2013 Section 15
	Ten per cent fines value	CS3: 2013 Section 16
	Particle density and water absorption	CS3: 2013 Section 17
	Moisture content	CS3: 2013 Section 18 (Oven drying method)
	Soundness	CS3: 2013 Section 19
	Drying shrinkage	CS3: 2013 Section 20
	Effect of organic substances by mortar method	CS3: 2013 Section 22
	Alkali silica reaction potential by ultra- accelerated mortar-bar test	CS1: 2010 Section 22

Quality Control Consultants Ltd.
品質管制顧問有限公司
Unit D, 9/F, Unison Industrial Centre, 27-31 Au Pui Wan Street, Fo Tan, Sha Tin, New Territories, Hong Kong
香港新界沙田火炭坳背灣街 27-31 號協興工業中心 9 樓 D 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Aggregate (chemical analysis)	Water-soluble chloride salts	BS 812: Part 117: 1988 *Excluding* Cl. 4
	Total sulphate content	BS 812: Part 118: 1988 Cl. 6
	Total sulphur content	BS EN 1744-1: 1998 Cl. 11 *Excluding* 11.2 CS3 : 2013 Section 21 Cl. 21.6
	Acid-soluble material content	BS 812: Part 119: 1985 *Excluding* Cl. 4
	Water-soluble chloride salts content	BS EN 1744-1: 1998 Cl. 7 *Excluding* 7.2
	Water-soluble chloride ions content	CS3 : 2013 Section 21 Cl. 21.3
	Water-soluble sulphate content	BS EN 1744-1: 1998 Cl. 10 *Excluding* 10.2
	Acid-soluble sulphate content	BS EN 1744-1: 1998 Cl. 12 *Excluding* 12.2 CS3 : 2013 Section 21 Cl. 21.5
	Acid-soluble chloride ions content	CS3 : 2013 Section 21 Cl. 21.4
	Presence of humus	CS3 : 2013 Section 21 Cl. 21.7
	Potential reactivity	ASTM C289-87 *Excluding* Cl. 10, Cl. 11, Cl. 12 Cl. 13 and Cl. 14.4

Quality Control Consultants Ltd.
品質管制顧問有限公司
Unit D, 9/F, Unison Industrial Centre, 27-31 Au Pui Wan Street, Fo Tan, Sha Tin, New Territories, Hong Kong
香港新界沙田火炭坳背灣街 27-31 號協興工業中心 9 樓 D 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Cement & Portland pulverized fuel ash cement (PPFAC)	Compressive strength of broken mortar prisms in the force range 2 kN to 250 kN	BS EN 196-1: 2005 BS EN 196-1: 2016
	Density	BS EN 196-6: 2010 Annex NC
	Fineness	BS EN 196-6: 2010 (by Blaine Method) BS EN 196-6: 2018 (by Blaine Method)
	Flexural strength of mortar prisms	BS EN 196-1: 2005 BS EN 196-1: 2016
	Setting times	BS EN 196-3: 2005 BS EN 196-3: 2016
	Soundness	BS EN 196-3: 2005 BS EN 196-3: 2016
	Standard consistence	BS EN 196-3: 2005 BS EN 196-3: 2016
Cement stabilised soil	Unconfined compressive strength of cement stabilised soil cores (with or without capping)	Interim Guidelines on Testing of Unconfined Compressive Strength of Cement Stabilised Soil Cores in Hong Kong (Oct 2017) App. B published by Geotechnical Division of The Hong Kong Institution of Engineers

Quality Control Consultants Ltd.
品質管制顧問有限公司
Unit D, 9/F, Unison Industrial Centre, 27-31 Au Pui Wan Street, Fo Tan, Sha Tin, New Territories, Hong Kong
香港新界沙田火炭坳背灣街 27-31 號協興工業中心 9 樓 D 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Cement (chemical analysis)	Heat of hydration	BS 4550: Part 3: Section 3.8: 1978 with modification
	Aluminium oxide content (Al_2O_3)	BS EN 196 -2: 1995 Cl. 13.11 BS EN 196-2: 2005 Cl. 13.11 BS EN 196-2 : 2013 Cl. 4.5.11
	Chloride ion content (Cl^-)	BS EN 196-21: 1992 Cl. 4 BS EN 197-1: 2011 Cl. 7.3 & BS EN 196-2: 2005 Cl. 14 BS EN 196-2 : 2013 Cl. 4.5.16
	Sulphate content (as SO_3)	BS EN 196-2: 1995 Cl. 8 BS EN 197-1: 2011 Cl. 7.3 & BS EN 196-2: 2005 Cl. 8
	Sulfate	BS EN 196-2 : 2013 Cl. 4.4.2
	Iron oxide content (Fe_2O_3)	BS EN 196-2: 1995 Cl. 13.10 BS EN 196-2: 2005 Cl. 13.10 BS EN 196-2 : 2013 Cl. 4.5.10
	Loss-on-ignition (L.O.I.)	BS EN 196-2: 1995 Cl. 7 BS EN 197-1: 2011 Cl. 7.3 & BS EN 196-2: 2005 Cl. 7 BS EN 196-2 : 2013 Cl. 4.4.1
	Magnesium oxide content (MgO)	BS EN 196-2: 1995 Cl. 13.13 (reference method) BS EN 196-2: 2005 Cl. 13.13 (reference method) BS EN 196-2 : 2013 Cl. 4.5.13 (reference method) BS EN 196-2: 1995 Cl. 13.15 (alternative method) BS EN 196-2: 2005 Cl. 13.15 (alternative method) BS EN 196-2 : 2013 Cl. 4.5.15 (alternative method)
	Calcium oxide content (CaO)	BS EN 196-2: 1995 Cl. 13.12 (reference method) BS EN 196-2: 2005 Cl. 13.12 (reference method) BS EN 196-2 : 2013 Cl. 4.5.12 (reference method) BS EN 196-2: 1995 Cl. 13.14 (alternative method) BS EN 196-2: 2005 Cl. 13.14 (alternative method) BS EN 196-2 : 2013 Cl. 4.5.14 (alternative method)
	Free lime content	BS 4550: Part 2: 1970 Cl. 14.1.5

Quality Control Consultants Ltd.
品質管制顧問有限公司
Unit D, 9/F, Unison Industrial Centre, 27-31 Au Pui Wan Street, Fo Tan, Sha Tin, New Territories, Hong Kong
香港新界沙田火炭坳背灣街 27-31 號協興工業中心 9 樓 D 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Cement (chemical analysis) (cont'd)	Residue insoluble in hydrochloric acid and sodium carbonate	BS EN 196-2: 1995 Cl. 9 BS EN 197-1: 2011 Cl. 7.3 & BS EN 196-2: 2005 Cl. 9 BS EN 196-2 : 2013 Cl. 4.4.3
	Residue insoluble in hydrochloric acid and potassium hydroxide	BS EN 196-2: 1995 Cl. 10 BS EN 196-2: 2005 Cl. 10 BS EN 196-2 : 2013 Cl. 4.4.4
	Impure silica content	BS EN 196-2: 1995 Cl. 13.3 - 13.5 BS EN 196-2: 2005 Cl. 13.3 - 13.5
	Pure silica content	BS EN 196-2: 1995 Cl. 13.6 BS EN 196-2: 2005 Cl. 13.6
	Soluble silica content (SiO_2)	BS EN 196-2: 1995 Cl. 13.8 BS EN 196-2: 2005 Cl. 13.8
	Total silica content (SiO_2)	BS EN 196-2: 1995 Cl. 13.9 BS EN 196-2: 2005 Cl. 13.9 BS EN 196-2: 2013 Cl. 4.5.2, 4.5.3, 4.5.6, 4.5.7, 4.5.8 and 4.5.9 BS EN 196-2: 2013 Cl. 4.5.2, 4.5.4, 4.5.6, 4.5.7, 4.5.8 and 4.5.9 BS EN 196-2: 2013 Cl. 4.5.5, 4.5.6, 4.5.7, 4.5.8 and 4.5.9
	Reactive silica content (SiO_2)	BS EN 197-1: 2000 Cl. 3.2 & BS EN 196-2: 2005 Cl. 13.9 & BS EN 196-2: 2005 Cl. 10 BS EN 197-1: 2011 Cl. 3.2 & BS EN 196-2: 2005 Cl. 13.9 & BS EN 196-2: 2005 Cl. 10
	Reactive calcium oxide content (CaO)	BS EN 197-1: 2011 Cl. 3.1 In-house method QCC\LP23 (Section 02, sub-section 15 Cl. 2.0)
	Carbon dioxide content (CO_2)	In-house method QCC\LP23 (Section 03, sub-section 03 Cl. 3.0)

Quality Control Consultants Ltd.
品質管制顧問有限公司
Unit D, 9/F, Unison Industrial Centre, 27-31 Au Pui Wan Street, Fo Tan, Sha Tin, New Territories, Hong Kong
香港新界沙田火炭坳背灣街 27-31 號協興工業中心 9 樓 D 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Cement (chemical analysis) (cont'd)	Manganese content (Mn)	BS EN 196-2: 1995 Cl. 12 BS EN 196-2: 2005 Cl. 12
	Manganese oxide content (MnO)	BS EN 196-2: 1995 Cl. 12 BS EN 196-2: 2005 Cl. 12 BS EN 196-2: 2013 Cl. 4.4.6
	Manganese trioxide content (Mn_2O_3)	BS EN 196-2: 1995 Cl. 12 BS EN 196-2: 2005 Cl. 12 BS EN 196-2: 2013 Cl. 4.4.6
	Sodium oxide content (Na_2O)	BS 4550: Part 2: 1970 Cl. 16.2 (Amd. 4260) BS EN 196-21: 1992 Cl. 7 BS EN 196-2: 2005 Cl. 17 BS EN 196-2 : 2013 Cl. 4.5.19
	Potassium oxide content (K_2O)	BS 4550: Part 2: 1970 Cl. 16.2 (Amd. 4260) BS EN 196-21: 1992 Cl. 7 BS EN 196-2: 2005 Cl. 17 BS EN 196-2 : 2013 Cl. 4.5.19
	Alkali content	BS EN 196-21: 1992 Cl. 7 BS EN 196-2: 2005 Cl. 17 BS EN 196-2 : 2013 Cl. 4.5.19

Quality Control Consultants Ltd.
品質管制顧問有限公司
Unit D, 9/F, Unison Industrial Centre, 27-31 Au Pui Wan Street, Fo Tan, Sha Tin, New Territories, Hong Kong
香港新界沙田火炭坳背灣街 27-31 號協興工業中心 9 樓 D 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Concrete	Sampling of fresh concrete on site	CS1: 2010 Section 1
	Slump of fresh concrete	CS1: 2010 Section 2 Part I
	Flow table test	CS1: 2010 Section 2 Part IV
	Slump flow test	CS1: 2010 Section 2 Part V
	Stiffening time of fresh concrete	CS1: 2010 Section 3
	Density of compacted fresh concrete	CS1: 2010 Section 5
	Air content of fresh concrete	CS1: 2010 Section 6 (Pressure gauge method)
	Making test cubes from fresh concrete	CS1: 2010 Section 7
	Making test cylinders from fresh concrete	CS1: 2010 Section 9
	Curing of test specimens	CS1: 2010 Section 10
	Mixing and sampling of fresh concrete	CS1: 2010 Section 11
	Compressive strength of concrete cubes in the force range 20 kN – 3000 kN	CS1: 2010 Section 12
	Obtaining core samples	CS1: 2010 Section 15
	Compressive strength of concrete cores in the force range 20 kN – 3000 kN	CS1: 2010 Section 15
	Density of hardened concrete	CS1: 2010 Section 16
	Concrete's ability to resist chloride ion penetration	CS1: 2010 Section 19
	Bleeding test	ASTM C232-87 Method A
	Suitability of water for making concrete (strength and setting time)	BS EN 196-1: 1995 BS EN 196-3: 1995 in conjunction with the following specification: BS EN 1008: 2002 Cl. 4.4
	Water absorption	BS 1881: Part 122: 1983

Quality Control Consultants Ltd.
品質管制顧問有限公司
Unit D, 9/F, Unison Industrial Centre, 27-31 Au Pui Wan Street, Fo Tan, Sha Tin, New Territories, Hong Kong
香港新界沙田火炭坳背灣街 27-31 號協興工業中心 9 樓 D 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Concrete (Chemical analysis)	Chloride content	BS 1881: Part 124 : 1988 Cl. 10.2 CS1: 1990 Section 21.10.2 CS1: 2010 Section 21.10.2
	Insoluble residue content	BS 1881: Part 124: 1988 Cl. 5.5 CS1: 1990 Section 21.6.5 CS1: 2010 Section 21.6.5
	Soluble silica content	BS 1881: Part 124 : 1988 Cl. 5.5 CS1: 1990 Section 21.6.5 CS1: 2010 Section 21.6.5
	Calcium oxide content	BS 1881: Part 124: 1988 Cl. 5 CS1: 1990 Section 21.6 CS1: 2010 Section 21.6
	Cement content	BS 1881: Part 124 : 1988 Cl. 5.9 CS1: 1990 Section 21.6.6 CS1: 2010 Section 21.6.6
	Aggregate content	BS 1881 : Part 124 : 1988 Cl. 5.9 CS1: 1990 Section 21.6.7 CS1: 2010 Section 21.6.7
	Aggregate / cement ratio	BS 1881: Part 124 : 1988 Cl. 5.9
	Capillary porosity	BS 1881: Part 124 : 1988 Cl. 7.4 CS1: 1990 Section 21.7.4 CS1: 2010 Section 21.7.4
	Original total water / cement ratio	BS 1881: Part 124 : 1988 Cl. 7.6.2 CS1: 1990 Section 21.7.6 CS1: 2010 Section 21.7.6
	Detection of PFA	CS1: 1990 Section 21.5 CS1: 2010 Section 21.5
	Carbon dioxide content	CS1: 1990 Section 21.10.4.2 CS1: 2010 Section 21.10.4.2
	Carbonate content	CS1: 1990 Section 21.10.4.2 CS1: 2010 Section 21.10.4.2

Quality Control Consultants Ltd.
品質管制顧問有限公司
Unit D, 9/F, Unison Industrial Centre, 27-31 Au Pui Wan Street, Fo Tan, Sha Tin, New Territories, Hong Kong
香港新界沙田火炭坳背灣街 27-31 號協興工業中心 9 樓 D 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Concrete (Chemical analysis) (cont'd)	Sulphate content	CS1: 1990 Section 21.10.3 CS1: 2010 Section 21.10.3
	Sodium oxide content	BS 1881: Part 124 : 1988 Cl. 10.4
	Potassium oxide content	BS 1881: Part 124 : 1988 Cl. 10.4
	Total alkali content	BS 1881: Part 124 : 1988 Cl. 10.4
Concrete (diagnostic)	Surface hardness measurement	BS 1881: Part 202 : 1986 BS EN 12504-2: 2012
Ground granulated blastfurnace slag (GGBS)	Activity index	BS EN 196-1: 2005 BS EN 196-1: 2016
	Compressive strength of broken mortar prism in the force range 2 kN – 250 kN	BS EN 196-1: 2005 BS EN 196-1: 2016
	Density	BS EN 196-6: 2010 Annex NC
	Fineness	BS EN 196-6: 2010 (by Blaine Method) BS EN 196-6: 2018 (by Blaine Method)
	Flexural strength of broken prism in the force range 0.2 kN – 10 kN	BS EN 196-1: 2005 BS EN 196-1: 2016
	Moisture content	BS EN 15167-1: 2006 Annex A
	Setting times	BS EN 196-3: 2005 BS EN 196-3: 2016
	Soundness	BS EN 196-3: 2005 BS EN 196-3: 2016
	Standard consistence	BS EN 196-3: 2005 BS EN 196-3: 2016

Quality Control Consultants Ltd.
品質管制顧問有限公司
Unit D, 9/F, Unison Industrial Centre, 27-31 Au Pui Wan Street, Fo Tan, Sha Tin, New Territories, Hong Kong
香港新界沙田火炭坳背灣街 27-31 號協興工業中心 9 樓 D 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Ground granulated blastfurnace slag (chemical analysis)	Loss-on-ignition (L.O.I.)	BS EN 196-2: 1995 Cl. 7 BS EN 15167-1: 2006 Cl. 5.2 & BS EN 196-2: 2005 Cl. 7
	Sulphate content (as SO_3)	BS EN 196-2: 1995 Cl. 8 BS EN 15167-1: 2006 Cl. 5.2 & BS EN 196-2 : 2005 Cl. 8
	Residue insoluble in hydrochloric acid and sodium carbonate	BS EN 196-2: 1995 Cl. 9 BS EN 196-2: 2005 Cl. 9
	Decomposition with sodium peroxide	BS EN 196-2: 1995 Cl. 13.2 BS EN 196-2: 2005 Cl. 13.2
	Precipitation and determination of silica by polyethylene oxide method	BS EN 196-2: 1995 Cl. 13.3 BS EN 196-2: 2005 Cl. 13.4
	Pure silica	BS EN 196-2: 1995 Cl. 13.6 BS EN 196-2: 2005 Cl. 13.6
	Precipitation and determination of silica by double evaporation method	BS EN 196-2: 1995 Cl. 13.4 BS EN 196-2: 2005 Cl. 13.3
	Silicon dioxide content (SiO_2)	BS EN 15167-1: 2006 Cl.5.5 & BS EN 196-2: 2005 Cl. 13.3 (reference method) & Cl. 13.6 BS EN 15167-1: 2006 Cl.5.5 & BS EN 196-2: 2005 Cl. 13.4 (alternative method)
	Manganese content (Mn)	BS EN 196-2: 1995 Cl. 12 BS EN 196-2: 2005 Cl. 12
	Manganese oxide content (MnO)	BS EN 196-2: 1995 Cl. 12 BS EN 196-2: 2005 Cl. 12
	Manganese trioxide content (Mn_2O_3)	BS EN 15167-1: 2006 Cl.5.5 & BS EN 196-2: 2005 Cl. 12

Quality Control Consultants Ltd.
品質管制顧問有限公司
Unit D, 9/F, Unison Industrial Centre, 27-31 Au Pui Wan Street, Fo Tan, Sha Tin, New Territories, Hong Kong
香港新界沙田火炭坳背灣街 27-31 號協興工業中心 9 樓 D 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Ground granulated blastfurnace slag (chemical analysis) (cont'd)	Sulphide content	BS EN 15167-1: 2006 Cl.5.2 & BS EN 196-2: 2005 Cl. 11
	Iron oxide (Fe_2O_3)	BS EN 196-2: 1995 Cl. 13.10 BS EN 196-2: 2005 Cl. 13.10
	Aluminium oxide (Al_2O_3)	BS EN 196-2: 1995 Cl. 13.11 BS EN 15167-1: 2006 Cl.5.5 & BS EN 196-2: 2005 Cl. 13.11
	Calcium oxide (CaO)	BS EN 196-2: 1995 Cl. 13.12 (reference method) BS EN 15167-1: 2006 Cl.5.5 & BS EN 196-2: 2005 Cl. 13.12 (reference method)
	Magnesium oxide (MgO)	BS EN 196-2: 1995 Cl. 13.13 (reference method) BS EN 15167-1: 2006 Cl.5.2 & BS EN 196-2: 2005 Cl. 13.13 (reference method)
	Total alkali content	BS EN 196-21: 1992 Cl. 7 BS EN 15167-1: 2006 Cl.5.5 & BS EN 196-2: 2005 Cl. 17 (reference method)
	Chloride content	BS EN 196-21: 1992 Cl. 4 BS EN 15167-1: 2006 Cl.5.2 & BS EN 196-2: 2005 Cl. 14
Grout	Compressive strength of grout cubes in the force range 20 kN to 3000 kN	CS1: 2010 Section 12
Mortar	Compressive strength of mortar cubes in the force range 20 kN to 3000 kN	In-house method QCC/LP 21-01

Quality Control Consultants Ltd.
品質管制顧問有限公司
Unit D, 9/F, Unison Industrial Centre, 27-31 Au Pui Wan Street, Fo Tan, Sha Tin, New Territories, Hong Kong
香港新界沙田火炭坳背灣街 27-31 號協興工業中心 9 樓 D 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Polymer modified mortar (chemical analysis)	Calcium oxide content	HKHA Standard 002:1990 (Modified) Cl. 7.1
	Carbon dioxide content	HKHA Standard 002:1990 (Modified) Cl. 7.2
	Calcium carbonate content	HKHA Standard 002:1990 (Modified) Cl. 7.2
	Cement content	HKHA Standard 002:1990 (Modified) Cl. 7.3
	Aggregate / cement ratio	HKHA Standard 002:1990 (Modified) Cl. 7.3
	Polymer solids content	HKHA Standard 002:1990 (Modified) Cl. 8.0
Polymer latex (chemical analysis)	Polymer solids content	HKHA Standard 002:1990 (Modified) Cl. 2.0

Quality Control Consultants Ltd.
品質管制顧問有限公司
Unit D, 9/F, Unison Industrial Centre, 27-31 Au Pui Wan Street, Fo Tan, Sha Tin, New Territories, Hong Kong
香港新界沙田火炭坳背灣街 27-31 號協興工業中心 9 樓 D 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Pulverized fuel ash (PFA)	Activity index	BS EN 196-1: 2005 in conjunction with the following specification(s) BS EN 450-1: 2012 Cl. 5.3.2
	Fineness	BS 3892: Part 1: 1997 Annex D BS EN 451-2: 1995 in conjunction with the following specification(s) BS EN 450-1: 2012 Cl. 5.3.1
	Initial setting time	BS EN 196-3: 2005 BS EN 196-3: 2016 in conjunction with the following specification(s) BS 3892: Part 1: 1997 Cl. 10 BS EN 450-1: 2012 Cl. 5.3.5
	Moisture content	BS 3892: Part 1: 1997 Annex C
	Particle density	BS EN 196-6: 1992 Annex NC BS EN 196-6: 2010 Annex NC in conjunction with the following specification(s) BS 3892: Part 1: 1997 Cl. 7
	Soundness	BS EN 196-3: 2005 BS EN 196-3: 2016 in conjunction with the following specification(s) BS 3892: Part 1: 1997 Cl. 11 BS EN 450-1: 2012 Cl. 5.3.3
	Strength factor	BS 3892: Part 1: 1997 Annex F BS 3892: Part 1: 1997 Annex F with modifications of using 52.5N cement
	Water requirement	BS 3892: Part 1: 1997 Annex E BS 3892: Part 1: 1997 Annex E with modifications of using 52.5N cement BS EN 450-1: 2012 Annex B

Quality Control Consultants Ltd.
品質管制顧問有限公司
Unit D, 9/F, Unison Industrial Centre, 27-31 Au Pui Wan Street, Fo Tan, Sha Tin, New Territories, Hong Kong
香港新界沙田火炭坳背灣街 27-31 號協興工業中心 9 樓 D 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Pulverized fuel ash (chemical analysis)	Sulphuric anhydride content	BS 4550: Part 2: 1970 Cl. 10 BS EN 450-1: 2005 +A1:2007 Cl. 5.2.4 & BS EN 196-2: 1995 Cl. 8
	Sulphate content (as SO_3)	BS EN 196-2: 2005 Cl. 8
	Loss-on-ignition	BS 4550: Part 2: 1970 Cl. 13.2 BS EN 196-2: 1995 Cl. 7 (using 1 h ignition time) BS EN 450-1: 2005 +A1:2007 Cl. 5.2.2 & BS EN 196-2: 2005 Cl. 7 (using 1 h ignition time)
	Chloride content	BS EN 196-21 : 1992 Cl. 4 BS EN 450-1: 2005 +A1:2007 Cl. 5.2.3 & BS EN 196-2 : 2005 Cl. 14
	Sodium oxide content	BS EN 196-21: 1992 Cl. 7.5.2 BS EN 196-2: 2005 Cl. 17 (reference method)
	Potassium oxide content	BS EN 196-21: 1992 Cl. 7.5.2 BS EN 196-2: 2005 Cl. 17 (reference method)
	Total alkali content	BS EN 196-21: 1992 Cl. 7.5.2 BS EN 450-1: 2005 +A1:2007 Cl. 5.2.9 & BS EN 196-2: 2005 Cl. 17 (reference method)
	Free calcium oxide content	BS EN 450-1: 2005 +A1:2007 Cl. 5.2.5 & BS EN 451-1: 2003
	Calcium oxide content	BS EN 196-2: 1995 Cl. 13.12 (reference method) BS EN 196-2: 1995 Cl. 13.14 (alternative method) BS EN 196-2: 2005 Cl. 13.12 (reference method) BS EN 196-2: 2005 Cl. 13.14 (alternative method)
	Aluminium oxide content (Al_2O_3)	BS EN 196-2: 1995 Cl. 13.11 BS EN 450-1: 2005 +A1:2007 Cl. 5.2.8 & BS EN 196-2: 2005 Cl. 13.11
	Iron oxide content (Fe_2O_3)	BS EN 196-2: 1995 Cl. 13.10 BS EN 450-1: 2005 +A1:2007 Cl. 5.2.8 & BS EN 196-2: 2005 Cl. 13.10

Quality Control Consultants Ltd.
品質管制顧問有限公司
Unit D, 9/F, Unison Industrial Centre, 27-31 Au Pui Wan Street, Fo Tan, Sha Tin, New Territories, Hong Kong
香港新界沙田火炭坳背灣街 27-31 號協興工業中心 9 樓 D 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Pulverized fuel ash (chemical analysis) (cont'd)	Total silica content (SiO_2)	BS EN 196-2: 1995 Cl. 13.9 BS EN 450-1: 2005 +A1:2007 Cl. 5.2.8 & BS EN 196-2: 2005 Cl. 13.9
	Impure silica content	BS EN 196-2: 1995 Cl. 13.3 BS EN 196-2: 2005 Cl. 13.3- 13.4
	Pure silica content	BS EN 196-2: 1995 Cl. 13.6 BS EN 196-2: 2005 Cl. 13.6
	Soluble silica content (SiO_2)	BS EN 196-2 : 1995 Cl. 13.8 BS EN 196-2 : 2005 Cl. 13.8
	Sum of silicon dioxide, aluminium oxide and iron oxide	BS EN 450-1: 2005 +A1:2007 Cl. 5.2.8 (By calculation)
	Magnesium oxide content (MgO)	BS EN 196-2 : 1995 Cl. 13.13 (reference method) BS EN 196-2 : 1995 Cl. 13.15 (alternative method) BS EN 450-1: 2005 +A1:2007 Cl. 5.2.10 & BS EN 196-2: 2005 Cl. 13.13 (reference method) BS EN 450-1: 2005 +A1:2007 Cl. 5.2.10 & BS EN 196-2: 2005 Cl. 13.15 (alternative method)
	Manganese content (Mn)	BS EN 196-2: 2005 Cl. 12
	Manganese oxide content (MnO)	BS EN 196-2: 2005 Cl. 12
	Manganese trioxide content (Mn_2O_3)	BS EN 196-2: 2005 Cl. 12
Portland pulverized fuel ash cement (chemical analysis)	Loss-on-ignition (L.O.I.)	BS 4550: Part 2: 1970 Cl. 13.2
	Proportion of PFA	BS 6588: 1985 App. A
	Chloride ion content	BS EN 196-21: 1992 Cl. 4 BS EN 196-2: 2005 Cl.14
	Sulphate content (as SO_3)	BS EN 196-2: 1995 Cl. 8 BS EN 196-2: 2005 Cl. 8
Silica fume	Dry mass content	BS EN 13263-1: 2005 Cl. 5.3.2

Quality Control Consultants Ltd.
品質管制顧問有限公司
Unit D, 9/F, Unison Industrial Centre, 27-31 Au Pui Wan Street, Fo Tan, Sha Tin, New Territories, Hong Kong
香港新界沙田火炭坳背灣街 27-31 號協興工業中心 9 樓 D 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Silica fume (chemical analysis)	Loss-on-ignition (L.O.I.)	BS EN 13263-1: 2005 +A1:2009 Cl. 5.2.7 & BS EN 196-2: 2005 Cl. 7
	Chloride content	BS EN 13263-1: 2005 +A1:2009 Cl. 5.2.6 & BS EN 196-2: 2005 Cl. 14
	Sulphate content(as SO_3)	BS EN 13263-1: 2005 +A1:2009 Cl. 5.2.4 & BS EN 196-2: 2005 Cl. 8
	Silicon dioxide content (SiO_2)	BS EN 13263-1: 2005 +A1:2009 Cl. 5.2.1 & BS EN 196-2: 2005 Cl. 13.3 (reference method) & Cl. 13.6
	Free calcium oxide content	BS EN 13263-1: 2005 +A1:2009 Cl. 5.2.3 & BS EN 451-1:2003
	Sodium oxide content	BS EN 196-2: 2005 Cl. 17 (reference method)
	Potassium oxide content	BS EN 196-2 : 2005 Cl. 17 (reference method)
	Total content of alkalis (as Na_2O equivalent)	BS EN 13263-1: 2005 +A1:2009 Cl. 5.2.5 & BS EN 196-2: 2005 Cl. 17 (reference method)
Soil (chemical analysis)	Organic matter content	GEOSPEC 3: 2001 Test 9.1
	Loss-on-ignition	GEOSPEC 3: 2001 Test 9.2
	Total sulphate content (as SO_3)	GEOSPEC 3: 2001 Test 9.3
	Water-soluble sulphate content (as SO_3)	GEOSPEC 3: 2001 Test 9.3
	Water-soluble chloride content	GEOSPEC 3: 2001 Test 9.4
	pH value	GEOSPEC 3: 2001 Test 9.5

Quality Control Consultants Ltd.
品質管制顧問有限公司
Unit D, 9/F, Unison Industrial Centre, 27-31 Au Pui Wan Street, Fo Tan, Sha Tin, New Territories, Hong Kong
香港新界沙田火炭坳背灣街 27-31 號協興工業中心 9 樓 D 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Water (Chemical analysis)	pH	In-house method QCC\LP 11-07
	Inorganic impurities (as total dissolved solids dried at 104±1℃)	In-house method QCC\LP 11-03 (Gravimetric)
	Inorganic impurities (as total dissolved solids dried at 180±10℃)	In-house method QCC\LP 11-03 (Gravimetric)
	Sulphate content	In-house method QCC\LP 11-04 (Turbidimetric)
	Chloride content	In-house method QCC\LP 11-05 (Titrimetric)
	Alkali carbonates and bicarbonates	In-house method QCC\LP 11-06 (Titrimetric)
	Sodium oxide content	In-house method QCC\LP 11-08
	Potassium oxide content	In-house method QCC\LP 11-08
	Total alkali content	In-house method QCC\LP 11-08
	Sodium and potassium contents	BS 6068 - 2.44 : 1993 *Excluding* Cl. 6 ISO 9964 - 3 : 1993 *Excluding* Cl. 6
	Chloride content	BS EN 1008: 2002, Cl. 6.1.3 & BS EN 196-21: 1992 Cl.4
	Sulphate content	BS EN 1008: 2002, Cl. 6.1.3 & BS EN 196-2: 1995: Cl. 8
	Total alkali content	BS EN 1008: 2002, Cl. 4.3.3 & BS EN 196-21: 1992 Cl. 7 (reference method)
Ground water (chemical analysis)	Sulphate content	GEOSPEC 3: 2001 Test 9.3
	pH value	GEOSPEC 3: 2001 Test 9.5

Quality Control Consultants Ltd.
品質管制顧問有限公司
Unit D, 9/F, Unison Industrial Centre, 27-31 Au Pui Wan Street, Fo Tan, Sha Tin, New Territories, Hong Kong
香港新界沙田火炭坳背灣街 27-31 號協興工業中心 9 樓 D 室

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Water and Wastewater	Physical examination :-	
	- Total Suspended Solids dried at 103 - 105℃	APHA 23e 2540 D
	- pH Value	APHA 23e 4500-H^+ B
	Organic Pollutants :-	
	- Oil and grease	APHA 23e 5520 B
	- Biochemical Oxygen Demand	APHA 23e 5210 B
	- Chemical Oxygen Demand	APHA 23e 5220 D

Quality Control Consultants Ltd.
品質管制顧問有限公司
Yau Tong Steel Testing Laboratory, G/F, 4 Tung Yuen Street, Yau Tong, Kowloon, Hong Kong
香港九龍油塘東源街 4 號地下

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Metallic materials	Bend test of carbon steel bars	CS2: 1995 Cl. 6.1 & 6.3 BS 4449: 1988 Cl. 10.2
	Mass per meter of steel reinforcing bars	CS2: 2012 (Rev. 6) Cl. 6.1 & 6.2
	Rebend test of carbon steel bars	CS2: 1995 Cl. 6.1 & 6.4 BS 4449: 1988 Cl. 10.3
	Rebend test of steel reinforcing bars	CS2: 2012 (Rev.6) Cl. 6.1 & 6.5
	Static tension test, static compression test, cyclic tension & compression tests for mechanical connector systems (Type 2 Splice) for steel reinforcing bars in the force range 10 kN - 1000 kN	ICC Evaluation Service, Inc. AC133 (Approved May 2008, Effective 1 Jun 2008) Cl. 4.1.2 ICC Evaluation Service, Inc. AC133 (Approved May 2008, Effective 1 June 2008) with modification Cl. 4.1.2 ICC Evaluation Service, Inc. AC133 (Approved Jan 2010, Effective 1 Jul 2010) Cl. 4.1.2 ICC Evaluation Service, Inc. AC133 (Approved Jan 2010, Effective 1 Jul 2010) with modification Cl. 4.1.2 in conjunction with the following specification(s): Buildings Department Code of Practice for Structural Use of Concrete (2013) Cl. 3.2.8.4(b), (c) & (d)
	Tensile test of carbon steel bars in the force range 10 kN – 1000 kN	CS2: 1995 Cl. 6.1 & 6.2 BS 4449: 1988 Cl. 10.1
	Tensile test of high tensile 7-wire strands in the force range 10 kN – 1000 kN	BS 18-2: 1971 BS EN ISO 6892-1: 2009 Cl. 10.4 Method B BS EN ISO 15630-3: 2002 Cl. 5 in conjunction with the following specification(s): BS 5896: 1980 App. A BS 5896: 2012 Cl. 7.2.2

Quality Control Consultants Ltd.
品質管制顧問有限公司
Yau Tong Steel Testing Laboratory, G/F, 4 Tung Yuen Street, Yau Tong, Kowloon, Hong Kong
香港九龍油塘東源街 4 號地下

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Metallic materials (cont'd)	Tensile test & slip/permanent elongation test of mechanical coupler for reinforcing bar in the force range 10 kN – 1000 kN	In-house method LP16-01-09 in conjunction with the following specification(s): BS 8110: Part 1: 1985 Cl. 3.12.8.16.2 BS 8110: Part 1: 1997 Cl. 3.12.8.16.2 BS 8110: Part 1: 1997 (Amd. Nos. 1, 2 and 3) Cl. 3.12.8.16.2 Buildings Department Code of Practice for Structural Use of Concrete (2004) Cl. 3.2.8.2 Buildings Department Code of Practice for Structural Use of Concrete (2013) Cl. 3.2.8.3 General Specification for Civil Engineering Works (1992) Vol. 2 Cl. 15.33 General Specification for Civil Engineering Works (2006) Vol. 2 Cl. 15.35
	Tensile test of steel reinforcing bars in the force range 10 kN – 1000 kN	BS EN 10002-1: 2001 BS EN ISO 6892-1: 2009 Cl. 10.4 Method B in conjunction with the following specification(s): CS2: 2012 (Rev. 6) Cl. 6.1 & 6.4

Quality Control Consultants Ltd.
品質管制顧問有限公司
FuLuSha District, Sha Tian Town, Dong Guan City, Guang Dong Province, China
廣東省東莞市沙田鎮福祿沙村

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Cement	Compressive strength of broken mortar prisms in the force range 10 kN to 300 kN	BS EN 196-1: 2005
	Density	BS EN 196-6: 2010 Annex NC
	Fineness	BS EN 196-6: 2010 (by Blaine Method)
	Flexural strength of mortar prisms	BS EN 196-1: 2005
	Setting times	BS EN 196-3: 2005
	Soundness	BS EN 196-3: 2005
	Standard consistence	BS EN 196-3: 2005
Cement (Chemical analysis)	Aluminium oxide content (Al_2O_3)	BS EN 196-2: 1995 Cl. 13.11 BS EN 196- 2: 2005 Cl. 13.11
	Chloride ion content (Cl^-)	BS EN 196- 21: 1992 Cl. 4 BS EN 196- 2: 2005 Cl. 14
	Residue insoluble in hydrochloric acid and sodium carbonate	BS EN 196- 2: 1995 Cl. 9 BS EN 196- 2: 2005 Cl. 9
	Iron oxide content (Fe_2O_3)	BS EN 196- 2: 1995 Cl. 13.10 BS EN 196- 2: 2005 Cl. 13.10
	Loss-on-ignition (L.O.I.) (corrected for sulphide)	BS EN 196-2: 1995 Cl. 7 BS EN 196- 2: 2005 Cl. 7
	Magnesium oxide content (MgO)	BS EN 196-2: 1995 Cl. 13.15 (alternative method) BS EN 196-2: 2005 Cl. 13.15 (alternative method)
	Calcium oxide content (CaO)	BS EN 196-2: 1995 Cl. 13.14 (alternative method) BS EN 196-2: 2005 Cl. 13.14 (alternative method)
	Sodium oxide content (Na_2O)	BS EN 196-21: 1992 Cl. 7 BS EN 196-2: 2005 Cl. 17

Quality Control Consultants Ltd.
品質管制顧問有限公司
FuLuSha District, Sha Tian Town, Dong Guan City, Guang Dong Province, China
廣東省東莞市沙田鎮福祿沙村

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Cement (Chemical analysis) (cont'd)	Potassium oxide content (K_2O)	BS EN 196-21: 1992 Cl. 7 BS EN 196-2: 2005 Cl. 17
	Alkali content	BS EN 196-21: 1992 Cl. 7 BS EN 196-2: 2005 Cl. 17
	Impure silica content	BS EN 196-2: 1995 Cl. 13.5 BS EN 196-2: 2005 Cl. 13.5
	Pure silica content	BS EN 196-2: 1995 Cl. 13.6 BS EN 196-2: 2005 Cl. 13.6
	Soluble silica content (SiO_2)	BS EN 196-2: 1995 Cl. 13.8 BS EN 196-2: 2005 Cl. 13.8
	Total silica content (SiO_2)	BS EN 196-2: 1995 Cl. 13.9 BS EN 196-2: 2005 Cl. 13.9
	Sulphate content (as SO_3)	BS EN 196-2: 1995 Cl. 8 BS EN 196-2: 2005 Cl. 8

Stanger Asia Limited
史達嘉亞洲有限公司

ADDRESS 地址	:	Rooms 503 - 504, 5/F. & 705 - 706, 7/F., Fuk Shing Commercial Building, 28 On Lok Mun Street, On Lok Tsuen, Fanling, New Territories, Hong Kong 香港新界粉嶺安樂村安樂門街 28 號福成商業大廈 5 樓 503 - 504 室及 7 樓 705 - 706 室
ENQUIRY 查詢	:	Ms Jessica Mak Yee-ha, Contract Administration Manager 麥綺霞女士
TELEPHONE 電話	:	2682 1203
FAX 傳真	:	2682 0046
E-MAIL 電郵	:	stanger@stanger.com.hk
WEBSITE ADDRESS 網址	:	www.stanger.com.hk
CLIENTELE 服務對象	:	Public 公眾

Stanger Asia Limited
史達嘉亞洲有限公司

ADDRESS
地址

Main Laboratory	:	Rooms 503 - 504, 5/F. & 705 - 706, 7/F., Fuk Shing Commercial Building, 28 On Lok Mun Street, On Lok Tsuen, Fanling, New Territories, Hong Kong 香港新界粉嶺安樂村安樂門街 28 號福成商業大廈 5 樓 503 - 504 室及 7 樓 705 - 706 室
Branch Laboratory	:	DD 83 Lot 549, 553, 556 Sha Tau Kok Road, Fanling, New Territories, Hong Kong 香港新界粉嶺沙頭角公路 83 區 549, 553 及 556 地段
ACCREDITED TEST CATEGORIES **認可測試類別**	:	Calibration Services 校正服務 Construction Materials 建築材料

Stanger Asia Limited

史達嘉亞洲有限公司

Rooms 503 - 504, 5/F. & 705 - 706, 7/F., Fuk Shing Commercial Building,
28 On Lok Mun Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安樂門街 28 號福成商業大廈 5 樓 503 - 504 室及 7 樓 705 - 706 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Construction materials testing equipment		
- Compacting bar	Verification for following parameters in accordance with in-house procedure CAL120 for requirements in CS 1: 1990: Vol. 1 (Amd. 1102) App. A9, or CS 1: 2010: Vol. 1 App. A10	
	Dimensions of ramming face: 25 mm x 25 mm	0.06 mm
	Length: 380 mm	0.67 mm
	Mass: 1.8 kg	0.7 g
- Concrete test cube mould	Verification for following parameters in accordance with in-house procedure CAL006 for requirements in CS 1: 1990: Vol. 1 App. A21 (excluding surface texture measurement), or CS 1: 2010: Vol. 1 App. A25	
	Dimensions: 100 mm or 150 mm	0.06 mm
	Thickness of base plate: minimum 10 mm	0.06 mm
	Flatness: not more than 0.03 mm or 0.06 mm	0.01 mm
	Squareness / Perpendicularity: 0.5 mm	0.02 mm
	Parallelism: 1 mm	0.09 mm
- Curing tank	On-site verification for following parameter in accordance with in-house procedure CAL096H for requirements in CS1: 1990: Vol. 1 App. A24, or CS1: 2010: Vol. 1 App. A28	
	- temperature distribution at a range of (27 ± 3) ℃	0.5 ºC
	On-site verification for following parameter in accordance with in-house procedure CAL095H for requirements in CS1: 1990: Vol. 1 App. A24, or CS1: 2010: Vol. 1 App. A28	
	- efficiency of circulation	33 s

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Stanger Asia Limited

史達嘉亞洲有限公司

Rooms 503 - 504, 5/F. & 705 - 706, 7/F., Fuk Shing Commercial Building,
28 On Lok Mun Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安樂門街 28 號福成商業大廈 5 樓 503 - 504 室及 7 樓 705 - 706 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Construction materials testing equipment (cont'd)		
- Slump cone	Verification for following parameters in accordance with in-house procedure CAL014 for requirements in CS1: 1990 Vol. 1 (AMD 1102) App. A4, or CS1: 2010 Vol. 1 App. A5	
	Internal diameter of base: 200 mm	0.20 mm
	Internal diameter of top: 100 mm	0.20 mm
	Height: 300 mm	0.70 mm
	Wall thickness: minimum 1.5 mm	0.05 mm
- Tamping rod	Verification for following parameters in accordance with in-house procedure CAL014 for requirements in CS1: 1990 Vol. 1 (AMD 1102) App. A5, or CS1: 2010 Vol. 1 App. A6	
	Diameter: 16 mm	0.05 mm
	Length: 600 mm	0.70 mm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Stanger Asia Limited

史達嘉亞洲有限公司

Rooms 503 - 504, 5/F. & 705 - 706, 7/F., Fuk Shing Commercial Building,
28 On Lok Mun Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安樂門街 28 號福成商業大廈 5 樓 503 - 504 室及 7 樓 705 - 706 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Length and related quantities		
- Length		
- Caliper	Calibration for length in accordance with in-house procedure CAL-2004 over the following range :	
	1 mm to 300 mm	0.02 mm
- Dial gauge (bezel diameter: 25 mm - 75 mm)	Calibration for length in accordance with AS 2103: 1978 Cl. 2.4.4 and App. A5 over the following range :	
	0.01 mm to 13 mm	5.0 µm
	above 13 mm to 25 mm	5.8 µm
	above 25 mm to 50 mm	5.9 µm
	above 50 mm to 80 mm	6.0 µm
	above 80 mm to 100 mm	6.1 µm
- Dial gauge (bezel diameter: 47.6 mm - 63.5 mm)	Calibration for length in accordance with BS 907: 2008 + Corr 1: 2009 Annex B3 over the following range :	
	0.01 mm to 13 mm	5.0 µm
	above 13 mm to 25 mm	5.8 µm
	above 25 mm to 50 mm	5.9 µm
	above 50 mm to 80 mm	6.0 µm
	above 80 mm to 100 mm	6.1 µm
- Dial gauge (bezel diameter: 28 mm - 115 mm)	Calibration for length in accordance with BS EN ISO 463: 2006 Annex C over the following range :	
	0.01 mm to 13 mm	5.0 µm
	above 13 mm to 25 mm	5.8 µm
	above 25 mm to 50 mm	5.9 µm
	above 50 mm to 80 mm	6.0 µm
	above 80 mm to 100 mm	6.1 µm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Stanger Asia Limited

史達嘉亞洲有限公司

Rooms 503 - 504, 5/F. & 705 - 706, 7/F., Fuk Shing Commercial Building,
28 On Lok Mun Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安樂門街 28 號福成商業大廈 5 樓 503 - 504 室及 7 樓 705 - 706 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Length and related quantities		
- Length		
- Dial gauge (bezel diameter: 28 mm - 115 mm)	Calibration for length in accordance with JIS B 7503: 2017 Annex JA Table JA.1 (based on English version provided by JSA in July 2017), without checking measuring force, over the following range :	
	0.01 mm to 13 mm	5.0 µm
	above 13 mm to 25 mm	5.8 µm
	above 25 mm to 50 mm	5.9 µm
	above 50 mm to 80 mm	6.0 µm
	above 80 mm to 100 mm	6.1 µm
- Dial gauge	Calibration for length in accordance with in-house procedure CAL-2001 in both increasing and decreasing increment at customer specified calibration points over the following range :	
	0.01 mm to 13 mm	5.0 µm
	above 13 mm to 25 mm	5.8 µm
	above 25 mm to 50 mm	5.9 µm
	above 50 mm to 80 mm	6.0 µm
	above 80 mm to 100 mm	6.1 µm
	Calibration for length in accordance with in-house procedure CAL-2002 in increasing increment at customer specified calibration points over the following range :	
	0.01 mm to 13 mm	5.0 µm
	above 13 mm to 25 mm	5.8 µm
	above 25 mm to 50 mm	5.9 µm
	above 50 mm to 80 mm	6.0 µm
	above 80 mm to 100 mm	6.1 µm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Stanger Asia Limited

史達嘉亞洲有限公司

Rooms 503 - 504, 5/F. & 705 - 706, 7/F., Fuk Shing Commercial Building,
28 On Lok Mun Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安樂門街 28 號福成商業大廈 5 樓 503 - 504 室及 7 樓 705 - 706 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Length and related quantities		
- Length		
- Digital indicator	Calibration for length in accordance with GEOSPEC 3: 2001 App. A.3.4.2 over the following ranges :	
	0.01 mm to 13 mm	1.5 µm
	above 13 mm to 50 mm	5.1 µm
	Calibration for length in accordance with in-house method CAL310-1 over the following ranges :	
	0.01 mm to 13 mm	1.5 µm
	above 13 mm to 50 mm	5.1 µm
- Dip Meter	Calibration for length in accordance with in-house procedure CAL-2006 over the following range :	
	1 m to 200 m	2.4 mm per 5 m
- Engineer's steel measuring rule	Calibration for length in accordance with in-house procedure CAL-2003 over the following ranges :	
	200 mm to 1000 mm	0.4 mm
- Linear displacement transducer (LVDT)	Calibration for length in accordance with GEOSPEC 3: 2001 App. A.3.4.2 over the following range :	
	0.01 mm to 100 mm	0.008 mm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Stanger Asia Limited

史達嘉亞洲有限公司

Rooms 503 - 504, 5/F. & 705 - 706, 7/F., Fuk Shing Commercial Building,
28 On Lok Mun Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安樂門街 28 號福成商業大廈 5 樓 503 - 504 室及 7 樓 705 - 706 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Length and related quantities		
- Length		
- Measuring tape	Calibration for length in accordance with in-house procedure CAL-2005 over the following range :	
	1 m to 200 m	1.7 mm per 5 m

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Stanger Asia Limited

史達嘉亞洲有限公司

Rooms 503 - 504, 5/F. & 705 - 706, 7/F., Fuk Shing Commercial Building,
28 On Lok Mun Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安樂門街 28 號福成商業大廈 5 樓 503 - 504 室及 7 樓 705 - 706 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities		
- Force		
- Load cell	Calibration for compressive force in accordance with in-house method CAL1006 over the following ranges :	
	1 kN to 120 kN above 120 kN to 520 kN	1.0 % of reading 0.7 % of reading
	Calibration for compressive force In accordance with GEOPEC 3: 2001 App. A.3.1 over the following ranges :	
	1 kN to 120 kN above 120 kN to 500 kN	1.0 % of reading 0.7 % of reading
	Calibration for compressive force in accordance with in-house method CAL1007-1 over the following ranges :	
	1 kN to 120 kN above 120 kN to 500 kN	1.0 % of reading 0.7 % of reading

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Stanger Asia Limited
史達嘉亞洲有限公司
Rooms 503 - 504, 5/F. & 705 - 706, 7/F., Fuk Shing Commercial Building,
28 On Lok Mun Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安樂門街 28 號福成商業大廈 5 樓 503 - 504 室及 7 樓 705 - 706 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related quantities (cont'd)		
- Force (cont'd)		
- Proving ring	Calibration for compressive force in accordance with GEOSPEC 3: 2001 App. A.3.1 over the following ranges :	
	1 kN to 2 kN	0.9 % of reading
	above 2 kN to 10 kN	0.5 % of reading
	above 10 kN to 50 kN	0.8 % of reading
	Calibration for compressive force in accordance with in-house method CAL1007-1 over the following ranges :	
	1 kN to 2 kN	0.9 % of reading
	above 2 kN to 10 kN	0.5 % of reading
	above 10 kN to 50 kN	0.8 % of reading
- Pull-off equipment	Calibration for tensile force in accordance with in-house method CAL1002 over the following ranges :	
	1 kN to 2 kN	1.2 % of reading
	above 2 kN to 4 kN	0.7 % of reading
	above 4 kN to 10 kN	0.4 % of reading

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Stanger Asia Limited

史達嘉亞洲有限公司

Rooms 503 - 504, 5/F. & 705 - 706, 7/F., Fuk Shing Commercial Building,
28 On Lok Mun Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安樂門街 28 號福成商業大廈 5 樓 503 - 504 室及 7 樓 705 - 706 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities (cont'd)		
- Hardness		
- Hardness testing machine	On-site indirect verification for testing machine for Vickers hardness scale in accordance with BS EN ISO 6507: Part 2: 1998 over the following range :	
	150 HV30 to 750 HV30	2.6 % HV30

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Stanger Asia Limited

史達嘉亞洲有限公司

Rooms 503 - 504, 5/F. & 705 - 706, 7/F., Fuk Shing Commercial Building,
28 On Lok Mun Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安樂門街 28 號福成商業大廈 5 樓 503 - 504 室及 7 樓 705 - 706 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related quantities (cont'd)		
- Mass		
- Electronic balance	Calibration for mass using following OIML Class standard weights (1) Class F1 weights from 1 g to 10 kg (2) Class F2 weights of 20 kg in accordance with in-house method CAL 001 over the following ranges :	
	1 g to 200 g	0.8 mg
	above 200 g to 600 g	2.4 mg
	above 600 g to 3 kg	9.8 mg
	above 3 kg to 10 kg	46 mg
	above 10 kg to 60 kg	0.81 g
	above 60 kg to 70 kg	5.7 g
	On-site calibration for mass using following OIML Class standard weights (1) Class F1 weights from 1 g to 10 kg (2) Class F2 weights of 20 kg in accordance with in-house method CAL 001 over the following ranges :	
	1 g to 200 g	0.8 mg
	above 200 g to 600 g	2.4 mg
	above 600 g to 3 kg	9.8 mg
	above 3 kg to 10 kg	46 mg
	above 10 kg to 60 kg	0.81 g
	above 60 kg to 70 kg	5.7 g

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Stanger Asia Limited
史達嘉亞洲有限公司
Rooms 503 - 504, 5/F. & 705 - 706, 7/F., Fuk Shing Commercial Building,
28 On Lok Mun Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安樂門街 28 號福成商業大廈 5 樓 503 - 504 室及 7 樓 705 - 706 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Concrete (chemical analysis)	Chloride content	BS EN 14629: 2007 Method A *excluding* Cl. 4.1 BS 1881: Part 124: 1988 Cl. 10.2 CS 1: 2010 Section 21.10.2
	Chloride content by weight of concrete sample	BS 1881: Part 124: 1988 Cl. 10.2 in conjunction with In-house method CHEM06-S (by calculation) CS 1: 2010 Section 21.10.2 in conjunction with In-house method CHEM06-S (by calculation)
	Sulphate content	BS 1881: Part 124: 1988 Cl. 10.3 CS 1: 2010 Section 21.10.3
	Sulphate content by weight of concrete sample	BS 1881: Part 124: 1988 Cl. 10.3 in conjunction with In-house method CHEM07-S (by calculation) CS 1: 2010 Section 21.10.3 in conjunction with In-house method CHEM07-S (by calculation)
	Cement content (By calcium oxide determination)	BS 1881: Part 124: 1988 Section 5.4 & 5.9 *excluding* Cl. 5.9.4
	Cement and Aggregate content (By calcium oxide determination)	CS 1: 2010 Section 21.6.4, 21.6.6 & 21.6.7
	Aggregate / Cement ratio (By calcium oxide determination)	BS 1881: Part 124: 1988 Section 5.9 *excluding* Cl. 5.9.4
	Detection of PFA	CS 1: 2010 Section 21.5
	pH value	Hong Kong Housing Authority Materials Testing Services Term Contract (2020/2022) for Construction Materials (Package A1) Part D Cl. 1.4.14

Stanger Asia Limited
史達嘉亞洲有限公司
Rooms 503 - 504, 5/F. & 705 - 706, 7/F., Fuk Shing Commercial Building,
28 On Lok Mun Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安樂門街 28 號福成商業大廈 5 樓 503 - 504 室及 7 樓 705 - 706 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Soil (chemical analysis)	Organic matter content	GEOSPEC 3: 2017 Test 9.1
	Loss-on-ignition (L.O.I)	GEOSPEC 3: 2017 Test 9.2
	Total sulphate content (as SO_3)	GEOSPEC 3: 2017 Test 9.3
	Water-soluble sulphate content (as SO_3)	GEOSPEC 3: 2017 Test 9.3
	Water-soluble chloride content	GEOSPEC 3: 2017 Test 9.4
	pH value	GEOSPEC 3: 2017 Test 9.5
Ground water (chemical analysis)	Sulphate content (as SO_3)	GEOSPEC 3 : 2017 Test 9.3
	pH value	GEOSPEC 3 : 2017 Test 9.5

Stanger Asia Limited
史達嘉亞洲有限公司
Rooms 503 - 504, 5/F. & 705 - 706, 7/F., Fuk Shing Commercial Building,
28 On Lok Mun Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安樂門街 28 號福成商業大廈 5 樓 503 - 504 室及 7 樓 705 - 706 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Coating	Mass per unit area of hot-dip galvanized coating by gravimetric method	BS EN ISO 1460: 2020 BS EN 10346: 2015 Annex A
Metallic materials (non-destructive)	Ultrasonic test of H beams with parallel flanges (manual method)	BS EN 10306: 2002
	Ultrasonic test of metallic materials (reflection method)	BS 5996: 1993 BS EN 10160: 1999
Welds (non-destructive)	Liquid penetrant test (Colour contrast method)	BS 6443: 1984 + Amd. 4844 BS EN 571: Part 1: 1997 BS EN ISO 3452-1: 2013 BS EN ISO 3452-1: 2021 in conjunction with the following specification(s): BS 5135: 1984 Table 18 & 19 BS 5400-6: 1999 Cl. 5.5.2.4.1 BS EN ISO 5817: 2003 Table 1 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b
	Magnetic particle test (Magnetic flow method colour contrast method using permanent magnets & A.C. yokes)	BS 6072: 1981 + Amd. 3960, 4542 & 4843 BS EN 1290: 1998 BS EN ISO 9934-1: 2001 BS EN ISO 17638: 2009 BS EN ISO 17638: 2016 in conjunction with the following specification(s): BS 5135: 1984 Table 18 & 19 BS 5400-6: 1999 Cl. 5.5.2.4.1 BS EN ISO 5817: 2003 Table 1 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b

Stanger Asia Limited
史達嘉亞洲有限公司
Rooms 503 - 504, 5/F. & 705 - 706, 7/F., Fuk Shing Commercial Building,
28 On Lok Mun Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安樂門街 28 號福成商業大廈 5 樓 503 - 504 室及 7 樓 705 - 706 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Welds (non-destructive) (cont'd)	Radiographic examination (Gamma Ray)	BS EN 1435: 1997 in conjunction with the following specification(s): BS 5135: 1984 Table 18 & 19 BS 5400-6: 1999 Cl. 5.5.2.4.2 BS EN ISO 5817: 2003 Table 1 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b
	Ultrasonic test (Butt welds in plates & pipes, 'T' joint welds, nozzle welds & node welds)	BS 3923: Part 1: 1986 (Level 1, 2a, 2b & 3) BS EN 1714: 1998 + Amd. 10286 (Level A, B & C) BS EN ISO 17640: 2010 (Level A, B & C) BS EN ISO 17640: 2018 (Level A, B & C) in conjunction with the following specification(s): BS 5135: 1984 Table 18 & 19 BS 5400-6: 1999 Cl. 5.5.2.4.2 BS EN ISO 5817: 2003 Table 1 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b
	Visual examination	BS 5289: 1976 BS EN 970: 1997 BS EN ISO 17637: 2011 BS EN ISO 17637: 2016 in conjunction with the following specification(s): BS 5135: 1984 Table 18 & 19 BS 5400-6: 1999 Cl. 5.5.2.4.1 BS EN ISO 5817: 2003 Table 1 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b

Stanger Asia Limited
史達嘉亞洲有限公司
Rooms 503 - 504, 5/F. & 705 - 706, 7/F., Fuk Shing Commercial Building,
28 On Lok Mun Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安樂門街 28 號福成商業大廈 5 樓 503 - 504 室及 7 樓 705 - 706 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Welds (non-destructive) (cont'd)	Visual examination and bend test on stud connectors	<Visual examination as follows> BS 5289: 1976 BS EN 970: 1997 BS EN ISO 17637: 2011 BS EN ISO 17637: 2016 <together with the following bend test method(s)> BS 5400-6: 1999 Cl. 5.5.4(b) BS EN ISO 14555: 2017 Cl. 11.2, 11.3 (excluding Torque wrench method), 12.2 & 12.3 Buildings Department Code of Practice for the Structural Use of Steel (2011) Cl. 14.3.7.3

Stanger Asia Limited
史達嘉亞洲有限公司
DD 83 Lot 549, 553, 556 Sha Tau Kok Road, Fanling, New Territories, Hong Kong
香港新界粉嶺沙頭角公路 83 區 549, 553 及 556 地段

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related quantities		
- Length		
- Extensometer		
- Class 1 and Class 2 with gauge length 50 mm to 600 mm	On-site calibration for displacement using calibrating rig and verification of class in accordance with BS EN 10002-4: 1995 over the following range:	
	0.03 mm to 24 mm	9.8 µm
	On-site calibration for displacement using calibrating rig and verification of class in accordance with BS EN ISO 9513: 2002 over the following range:	
	0.03 mm to 24 mm	9.8 µm
	On-site calibration for displacement using calibrating rig and verification of class in accordance with BS EN ISO 9513: 2012 over the following range:	
	0.03 mm to 24 mm	9.8 µm
- Grade B, C, D. E and F for gauge length 50 mm to 600 mm	On-site calibration for displacement using calibrating rig and verification of grade in accordance with BS 3846: 1970 over the following range:	
	0.03 mm to 24 mm	9.8 µm

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Stanger Asia Limited
史達嘉亞洲有限公司
DD 83 Lot 549, 553, 556 Sha Tau Kok Road, Fanling, New Territories, Hong Kong
香港新界粉嶺沙頭角公路 83 區 549, 553 及 556 地段

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related quantities		
- Force		
- Load cell	Calibration for compressive force in accordance with in-house method CAL1008 over the following ranges :	
	300 kN to 800 kN	1.1 % of reading
	above 800 kN to 6000 kN	0.8 % of reading
	above 6000 kN to 15000 kN	1.2 % of reading
- Load cell with hydraulic jack	Calibration for compressive force in accordance with in-house method CAL1008 over the following ranges :	
	300 kN to 500 kN	2.0 % of reading
	above 500 kN to 800 kN	1.3 % of reading
	above 800 kN to 6000 kN	0.9 % of reading
	above 6000 kN to 15000 kN	1.3 % of reading

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Stanger Asia Limited
史達嘉亞洲有限公司
DD 83 Lot 549, 553, 556 Sha Tau Kok Road, Fanling, New Territories, Hong Kong
香港新界粉嶺沙頭角公路 83 區 549, 553 及 556 地段

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Thermometry		
- Temperature		
- Digital thermometer	Calibration for temperature using water bath in accordance with in-house method CAL450 over the following ranges:	
	10 ℃ to 50 ℃	0.30 K
	above 50 ℃ to 90 ℃	0.30 K
	Calibration for temperature using drywell in accordance with in-house method CAL450 over the following range:	
	above 50 ℃ to 350 ℃	0.30 K

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Stanger Asia Limited
史達嘉亞洲有限公司
DD 83 Lot 549, 553, 556 Sha Tau Kok Road, Fanling, New Territories, Hong Kong
香港新界粉嶺沙頭角公路 83 區 549, 553 及 556 地段

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Adhesive	Pull-off test of plaster	In-house method DIA 06
	Pull-off test of render	In-house method DIA 02
	Pull-off test of repair mortar	Hong Kong Housing Authority Materials Testing Services (2017/2018) for Maintenance & Building Materials Specification Part D Cl. 2.1.15 Method 1
	Pull-off test of tiles	In-house method DIA 30 (coring method) In-house method DIA 31 (saw-cut method)
Coating	Pull-off test of adhesion	In-house method DIA 36
	Pull-off test of coating	BS 3900-E10: 2003 Cl. 9.4.2 BS EN ISO 4624: 2003 Cl. 9.4.2 BS EN ISO 4624: 2016 Cl. 8.4.2
Concrete	Sampling fresh concrete on site	BS EN 12350-1: 2009 CS1: 2010 Section 1
	Slump of fresh concrete	BS EN 12350-2: 2009 CS1: 2010 Section 2 Part I
	Flow table test	BS 1881: Part 105: 1984 CS1: 2010 Section 2 Part IV
	Density of compacted fresh concrete	BS EN 12350-6: 2009 CS1: 2010 Section 5
	Making test cubes from fresh concrete	BS EN 12390-2: 2009 CS1: 2010 Section 7
	Curing of test specimens	CS1: 2010 Section 10
	Compressive strength of concrete cubes in the force range 20 kN - 3000 kN	BS EN 12390-3: 2019 CS1: 2010 Section 12
	Obtaining core samples	CS1: 2010 Section 15
	Compressive strength of concrete cores in the force range 20 kN - 2000 kN in the force range 20 kN - 3000 kN	 BS EN 12504-1: 2019 CS1: 2010 Section 15

Stanger Asia Limited
史達嘉亞洲有限公司
DD 83 Lot 549, 553, 556 Sha Tau Kok Road, Fanling, New Territories, Hong Kong
香港新界粉嶺沙頭角公路 83 區 549, 553 及 556 地段

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Concrete (cont'd)	Density of hardened concrete	BS EN 12390-7: 2019 CS1: 2010 Section 16
	Water absorption	BS 1881: Part 122: 2011 +A1: 2020
	Removal of concrete cover to expose reinforcement	Hong Kong Housing Authority Materials Testing Services (2017/2018) for Maintenance & Building Materials Specification Part D Cl. 4.2.1
	Cutting out reinforcement	Hong Kong Housing Authority Materials Testing Services (2002/2004) for Maintenance & Building Materials Specification Part D Cl. 4.2.3
	Moisture content by weighing drilling powder	Hong Kong Housing Authority Materials Testing Services (2002/2004) for Maintenance & Building Materials Specification Part D Cl. 4.3.8 Method 1
	Moisture content by weighing minicores	Hong Kong Housing Authority Materials Testing Services (2002/2004) for Maintenance & Building Materials Specification Part D Cl. 4.3.8 Method 2
	Crack survey	Hong Kong Housing Authority Materials Testing Services (2017/2018) for Maintenance & Building Materials Specification Part D Cl. 4.3.14
	Obtaining drilling powder samples	Hong Kong Housing Authority Materials Testing Services (2017/2018) for Maintenance & Building Materials Specification Part D Cl. 6.4
	Heat of hydration monitoring (temperature monitoring of concrete structure)	In-house method CON22
	Temperature rise evaluation test	In-house method CON22-1

Stanger Asia Limited
史達嘉亞洲有限公司
DD 83 Lot 549, 553, 556 Sha Tau Kok Road, Fanling, New Territories, Hong Kong
香港新界粉嶺沙頭角公路 83 區 549, 553 及 556 地段

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Concrete (diagnostic)	Carbonation test	BS EN 14630: 2006 Building Research Establishment Information IP 6/81 Hong Kong Housing Authority Materials Testing Services (2017/2018) for Maintenance & Building Materials Specification Part D Cl. 4.3.1 Method 1 & Method 2
	Covermeter survey	BS 1881: Part 204: 1988 + Amd. 6201 Hong Kong Housing Authority Materials Testing Services (2017/2018) for Maintenance & Building Materials Specification Part D Cl. 4.3.2 Method 1 & Method 2
	Half-cell potential measurement	ASTM C876-15 Hong Kong Housing Authority Materials Testing Services (2017/2018) for Maintenance & Building Materials Specification Part D Cl. 4.3.4 & 4.3.5
	Infrared thermography for detection of building surface defects	Hong Kong Concrete Institute TM1 Issue 2 (2022)
	Resistivity measurement	BS 1881: Part 201: 1986 Cl. 2.3 Hong Kong Housing Authority Materials Testing Services (2017/2018) for Maintenance & Building Materials Specification Part D Cl. 4.3.6
	Surface hardness measurement	BS EN 12504-2: 2012 BS EN 12504-2: 2021
	Surface penetration radar survey	Hong Kong Concrete Institute TM2 (2009)
	Ultrasonic pulse velocity measurement (by direct, semi-direct and indirect measurement)	BS 1881: Part 203: 1986 BS EN 12504-4: 2021

Stanger Asia Limited
史達嘉亞洲有限公司
DD 83 Lot 549, 553, 556 Sha Tau Kok Road, Fanling, New Territories, Hong Kong
香港新界粉嶺沙頭角公路 83 區 549, 553 及 556 地段

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Controlled low strength material	Flowability	ASTM D6103/D6103M-17 in conjunction with the following specification(s): Highways Department Guidance Notes on Use of Self-compacting Backfill Material RD/GN/049 (Sep 2022)
	Load placement capacity (by ball drop test)	ASTM D6024/D6024M-16 in conjunction with the following specification(s): Highways Department Guidance Notes on Use of Self-compacting Backfill Material RD/GN/049 (Sep 2022)

Stanger Asia Limited
史達嘉亞洲有限公司
DD 83 Lot 549, 553, 556 Sha Tau Kok Road, Fanling, New Territories, Hong Kong
香港新界粉嶺沙頭角公路 83 區 549, 553 及 556 地段

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Foundation	Borehole video inspection test	Hong Kong Housing Authority Materials Testing Services (2023/2025) for Non-destructive Pile Testing Cl. D8 & D10 Hong Kong Housing Authority Materials Testing Services (2024/2026) for Non-destructive Pile Testing Cl. D8 & D10
	Compression static loading test (SLT)	Architectural Services Department General Specification for Building (2022) Section 5.29 Buildings Department Code of Practice for Foundations (2017) Cl. 8.4 General Specification for Civil Engineering Works (2006) Vol. 1 App. 8.1 General Specification for Civil Engineering Works (2020) Vol. 1 App. 8.1 Hong Kong Housing Authority Specification Library (2022) PIL1.T610.9 to PIL1.T1110.9
	Compression static loading test on pile (SLT) using multiple hydraulic jacks and load cells	Buildings Department Code of Practice for Foundations (2017) Cl. 8.4 with modification General Specification for Civil Engineering Works (2020) Vol. 1 App. 8.1 with modification
	Crosshole sonic logging test (SOLT)	ASTM D6760-16
	Pile dynamic test (PDA)	ASTM D4945-17
	Pile integrity test (PIT)	ASTM D5882-16
	Plate load test (PLT)	BS 1377: Part 9: 1990 Cl. 4.1 (incremental loading) excluding Cl. 4.1.6.1 Buildings Department Code of Practice for Foundations (Apr 2017) Cl. 8.2(2) excluding 8.2(2)(f) to (h)
	Tension static loading test (SLT)	Architectural Services Department, Technical Instruction No. 04/2005 (revision date: Jun 2019) Particular Specification for Tension Piles Buildings Department Code of Practice for Foundations (2017) Cl. 8.10
	Tension static loading test on pile (SLT) using multiple hydraulic jacks and load cells	In-house method STA07
	Ultrasonic echo sounder test (UEST)	Hong Kong Concrete Institute TM3 Issue 2 (2024)

Stanger Asia Limited
史達嘉亞洲有限公司
DD 83 Lot 549, 553, 556 Sha Tau Kok Road, Fanling, New Territories, Hong Kong
香港新界粉嶺沙頭角公路 83 區 549, 553 及 556 地段

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Grout	Flow of grout for preplaced-aggregate concrete (flow cone method)	ASTM C939-02
	Bleeding and free expansion	General Specification for Civil Engineering Works (2006) Vol. 2 Cl. 17.59-17.60 ASTM C940-98a
	Making and curing test cubes	General Specification for Civil Engineering Works (2006) Vol. 2 Cl. 17.63 (1) & (2) CS1: 2010 Section 7 & 10
	Compressive strength of grout cubes in the force range 20 kN - 3000 kN	General Specification for Civil Engineering Works (2006) Vol. 2 Cl. 17.63 (1) & (2) CS1: 2010 Section 12

Stanger Asia Limited
史達嘉亞洲有限公司
DD 83 Lot 549, 553, 556 Sha Tau Kok Road, Fanling, New Territories, Hong Kong
香港新界粉嶺沙頭角公路 83 區 549, 553 及 556 地段

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Metallic materials	Tensile test of metallic materials in force range 2 kN – 2000 kN	BS 18: 1987 BS EN 10002-1: 2001 BS EN ISO 6892-1: 2009 Cl. 10.4 Method B in conjunction with the following specification(s): BS 4360: 1986 Cl. 23 BS 4360: 1990 Cl. 23 BS EN 10025-1: 2004 Cl. Cl. 7.3.1, 9.2.3.2 & 10.2.1 BS EN 10025-2: 2004 Cl. 10.2 & Table 7 BS EN 10025-3: 2004 Cl. 10.2 & Table 5 BS EN 10025-4: 2004 Cl. 10.2 & Table 5 BS EN 10025-5: 2004 Cl. 10.2 & Table 4 BS EN 10025-6: 2004 + A1: 2009 Cl. 10.2, Table 5 BS EN 10088-2: 2005 Cl. 7.4.2, Table 7 - 17 & 19 - 25 BS EN 10210-1: 1994 Cl. 6.6.1, 9.2 & 9.2.1 BS EN 10210-1: 2006 Cl. 6.6.1, 9.2.1 & 9.2.2 BS EN 10219-1: 2006 Cl. 6.7.1, 9.2.1 & 9.2.2
	Tensile test & slip/permanent elongation test of mechanical coupler for reinforcing bar in the force range 10 kN – 2000 kN	BS EN ISO 6892-1: 2009 & ISO 15835-2: 2018 Cl. 5.4 excluding Cl. 5.4.4 in conjunction with the following specification(s): BS 8110: Part 1: 1985 Cl. 3.12.8.16.2 BS 8110: Part 1: 1997 Cl. 3.12.8.16.2 ISO 15835-1: 2018 Cl. 5.4.1 Option 2 & 5.4.2 Buildings Department Code of Practice for Structural Use of Concrete (2013) Cl. 3.2.8.3 General Specification for Civil Engineering Works (2006) Vol 2 Cl. 15.35 General Specification for Civil Engineering Works (2020) Vol 2 Cl. 15.35
	Tensile test of steel reinforcing bars for reinforcement of concrete in the force range 2 kN – 2000 kN	BS EN 10002-1: 2001 BS EN ISO 6892-1: 2009 Cl. 10.4 Methods B in conjunction with the following specification(s): BS 4449: 2005 + A2: 2009 Cl. 7.2.2, 7.2.3 & 8.1.3.1 & 9 BS EN ISO 15630-1: 2002 Cl. 5 BS EN ISO 15630-2: 2002 Cl. 5 CS2: 2012 (Rev. 5) Cl. 6.1 & 6.4
	Tensile test of machined and unmachined specimens of bolts, screws and studs in the force range 15 kN – 1500 kN	BS EN ISO 6892-1: 2009 Cl. 10.4 Method B in conjunction with the following specification(s): BS EN ISO 898-1: 1999 Cl. 8.1 & 8.2

Stanger Asia Limited
史達嘉亞洲有限公司
DD 83 Lot 549, 553, 556 Sha Tau Kok Road, Fanling, New Territories, Hong Kong
香港新界粉嶺沙頭角公路 83 區 549, 553 及 556 地段

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Metallic materials (cont'd)	Charpy 'V' notch impact test	BS EN 10045-1: 1990 BS EN ISO 148-1: 2010 with modification in conjunction with the following specification(s): BS 4360: 1990 Cl. 25-27 BS EN 10025-1: 2004 Cl. 10.2.2 BS EN 10025-2: 2004 Cl. 10.2 & Table 9 BS EN 10025-3: 2004 Cl. 10.2 & Table 6 & 7 BS EN 10025-4: 2004 Cl. 10.2 & Table 6 & 7 BS EN 10025-5: 2004 Cl. 10.2 & Table 5 BS EN 10025-6: 2004 + A1: 2009 Cl. 10.2 Table 6 & 7 BS EN 10088-2: 2005 Cl. 7.4.4, Table 8, 10 & 11 BS EN 10210-1: 2006 Cl. 6.6.2, 9.2.3, Table A3 & B3 BS EN 10219-1: 2006 Cl. 6.7.2, 9.2.3, Table A3, B4 & B5
	Mass per meter of steel reinforcing bars	BS EN ISO 15630-1: 2002 Cl. 12 CS2: 2012 (Rev. 5) Cl. 6.1 & 6.2 in conjunction with the following specification(s): BS 4449: 2005 + A2: 2009 + A3: 2016 Cl. 7.2.2, 7.3 & 9
	Rebend test of steel reinforcing bars	BS EN ISO 15630-1: 2002 Cl. 7 CS2: 2012 (Rev. 5) Cl. 6.1 & 6.5 in conjunction with the following specification(s): BS 4449: 2005 + A2: 2009 Cl. 7.2.5 & 9
	Static tension test, static compression test, cyclic tension & compression tests for mechanical connector systems (Type 2 Splice) for steel reinforcing bars in the force range 10 kN – 2000 kN	ICC Evaluation Service, Inc. AC133 (Approved Jan 2010, Effective 1 Jul 2010) Cl. 4.1.2 with modifications in conjunction with the following specification(s): Buildings Department Code of Practice for Structural Use of Concrete (2013) Cl. 3.2.8.4 (b), (c) & (d)
	Vickers hardness test in scale range HV 30	BS EN ISO 6507-1: 1998
	Proof load test of steel nuts in the force range 15 kN – 1500 kN	BS 3692: 2001 Annex C.1 BS 4190: 2001 Annex A.1 ISO 898-2: 1992 Cl. 5-7 & 8.1

Stanger Asia Limited
史達嘉亞洲有限公司
DD 83 Lot 549, 553, 556 Sha Tau Kok Road, Fanling, New Territories, Hong Kong
香港新界粉嶺沙頭角公路 83 區 549, 553 及 556 地段

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Paint & varnish	Dry-film coating thickness by acoustic method	BS EN ISO 2808: 2019 (Method 10 – Ultrasonic reflection)
	Dry-film coating thickness by eddy current method	BS EN ISO 2808: 2007, BS 3900-C5: 2007 (Method 7D) BS EN ISO 2808: 2019 (Method 7C)
	Dry-film coating thickness by magnetic method	BS EN ISO 2178: 2016 BS EN ISO 2808: 2007, BS 3900-C5: 2007 (Method 7C) BS EN ISO 2808: 2019 (Method 7B.2)
Road surfaces	Skid resistance of road surfaces/markings using a portable pendulum tester	ASTM E303-93 (Reapproved 2018) Highways Department (Research and Development Division) Guidance Notes on Road Testing - RD/GN/009 (Sep 1989)
Rock	Pull-out test of rock dowels	In-house method SPRD 01
	Point load strength index of rock by diametral and axial tests	ASTM D5731-95 ASTM D5731-16 International Society for Rock Mechanics (1985) Suggested method for determining point load strength

Stanger Asia Limited
史達嘉亞洲有限公司
DD 83 Lot 549, 553, 556 Sha Tau Kok Road, Fanling, New Territories, Hong Kong
香港新界粉嶺沙頭角公路 83 區 549, 553 及 556 地段

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Soil (Phase I)	Moisture content by oven-drying at 45°C ± 5°C	GEOSPEC 3: 2001 Test 5.1 GEOSPEC 3: 2017 Test 5.1
	Moisture content by oven-drying at 105°C ± 5°C	GEOSPEC 3: 2001 Test 5.2 GEOSPEC 3: 2017 Test 5.2
	Comparative test for the determination of moisture content by oven-drying	GEOSPEC 3: 2001 Test 5.3 GEOSPEC 3: 2017 Test 5.3
	Liquid limit, plastic limit, and plasticity index	GEOSPEC 3: 2001 Test 6.1 GEOSPEC 3: 2017 Test 6.1
	Liquidity index	GEOSPEC 3: 2001 Test 6.2 GEOSPEC 3: 2017 Test 6.2
	Particle density by gas jar method	GEOSPEC 3: 2001 Test 7.1 GEOSPEC 3: 2017 Test 7.1
	Particle density by small pyknometer method	GEOSPEC 3: 2001 Test 7.2 GEOSPEC 3: 2017 Test 7.2
	Particle size distribution by wet sieving (with dispersant)	GEOSPEC 3: 2001 Test 8.1 GEOSPEC 3: 2017 Test 8.1
	Particle size distribution by wet sieving (without dispersant)	GEOSPEC 3: 2001 Test 8.2 GEOSPEC 3: 2017 Test 8.2
	Particle size distribution by hydrometer (with dispersant)	GEOSPEC 3: 2001 Test 8.5 GEOSPEC 3: 2017 Test 8.5
	Particle size distribution by hydrometer (without dispersant)	GEOSPEC 3: 2001 Test 8.6 GEOSPEC 3: 2017 Test 8.6
	Construction of a continuous particle size distribution curve from the results of wet-sieving and sedimentation tests	GEOSPEC 3: 2001 Test 8.7 GEOSPEC 3: 2017 Test 8.7

Stanger Asia Limited
史達嘉亞洲有限公司
DD 83 Lot 549, 553, 556 Sha Tau Kok Road, Fanling, New Territories, Hong Kong
香港新界粉嶺沙頭角公路 83 區 549, 553 及 556 地段

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Soil (Phase I) (cont'd)	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a 1000cc mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.1 GEOSPEC 3: 2017 Test 10.1
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a 1000cc mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.2 GEOSPEC 3: 2017 Test 10.2
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a CBR mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.3 GEOSPEC 3: 2017 Test 10.3
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a CBR mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.4 GEOSPEC 3: 2017 Test 10.4
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a 1000cc mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.5 GEOSPEC 3: 2017 Test 10.5
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a 1000cc mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.6 GEOSPEC 3: 2017 Test 10.6
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a CBR mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.7 GEOSPEC 3: 2017 Test 10.7
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a CBR mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.8 GEOSPEC 3: 2017 Test 10.8

Stanger Asia Limited
史達嘉亞洲有限公司
DD 83 Lot 549, 553, 556 Sha Tau Kok Road, Fanling, New Territories, Hong Kong
香港新界粉嶺沙頭角公路 83 區 549, 553 及 556 地段

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Soil (Phase I) (cont'd)	In-situ bulk density and in-situ dry density of soils by the sand replacement method suitable for fine- and medium-grained soils (with small pouring cylinder)	GEOSPEC 3: 2001 Test 11.1 GEOSPEC 3: 2017 Test 11.1
	In-situ bulk density and in-situ dry density of soils by the sand replacement method suitable for fine-, medium-, and coarse-grained soils (with large pouring cylinder)	GEOSPEC 3: 2001 Test 11.2 GEOSPEC 3: 2017 Test 11.2
	Relative compaction of fill material	GEOSPEC 3: 2001 Test 11.4 GEOSPEC 3: 2017 Test 11.4 Buildings Department PNAP 55 (1994) Cl. 2 App. A
Soil (other)	Pull-out test of soil nails	Architectural Services Department General Specification for Building (2017) Section 26 Geotechnical Works on Soil and Rock Slopes Cl. 26.39 Architectural Services Department General Specification for Building (2022) Section 26 Geotechnical Works on Soil and Rock Slopes Cl. 26.44 Hong Kong Housing Authority Specification Library (2022) SLO.T310.9 to SLO.T320.9 General Specification for Civil Engineering Works (2020) Vol. 1 Cl. 7.144 GEOGUIDE 7 (2008) Cl. 6.3.2 GEOGUIDE 7 (2017) Cl. 6.3.2 GEOGUIDE 7 (2023) Cl. 6.3.2
	Soil nail performance	Architectural Services Department General Specification for Building (2017) Section 26 Geotechnical Works on Soil and Rock Slopes Cl. 26.42 Architectural Services Department General Specification for Building (2022) Section 26 Geotechnical Works on Soil and Rock Slopes Cl. 26.47
	Time domain reflectometry (TDR) test on soil nails	Geotechnical Engineering Office Guidelines on Test Procedure using Time Domain Reflectometry (TDR) to determine the length of installed soil nails (July 2007)

Stanger Asia Limited
史達嘉亞洲有限公司
DD 83 Lot 549, 553, 556 Sha Tau Kok Road, Fanling, New Territories, Hong Kong
香港新界粉嶺沙頭角公路 83 區 549, 553 及 556 地段

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Structural fixings	Tensile test of anchors by incremental loading in the force range 1 kN – 1000 kN	BS 5080: Part 1: 1993 Cl. 6, 7.1.1 & 7.1.3
	Tensile proof load test of anchors by incremental loading in the force range 1 kN – 1000 kN	BS 5080: Part 1: 1993 Cl. 6, 7.1.1 & 7.1.3 with modifications
	Tensile proof load test of drilled-in anchors used for cantilevered structure/hanger/curtain wall remedial works by incremental loading in the force range 2 kN – 640 kN	Buildings Department PNAP APP-169 (Oct 2023) App. A
	Tensile proof load test of drilled-in anchors used for works other than cantilevered structure/ hanger/curtain wall remedial works in the force range 2 kN – 640 kN	Buildings Department PNAP APP-169 (Oct 2023) App. B
	Tensile proof test of cementitious or polymer based grouted bolts or dowels or reinforcing bars works in the force range 2 kN – 640 kN	Buildings Department PNAP APP-169 (Oct 2023) App. C
	Shear test of anchors by incremental loading in the force range 1 kN –1000 kN	BS 5080: Part 2: 1986 + Amd. 7602 Cl. 4, 7.1, 7.2.1 & 7.2.3
	Shear proof load test of anchors by incremental loading in the force range 1 kN – 1000 kN	BS 5080: Part 2: 1986 + Amd. 7602 Cl. 4, 7.1, 7.2.1 & 7.2.3 with modifications
	Shear proof load test of drilled-in anchors used for cantilevered structure/hanger/curtain wall remedial works by incremental or continuous loading in the force range 2 kN – 220 kN	Buildings Department PNAP APP-169 (Oct 2023) App. A
	Shear proof load test of drilled-in anchors used for works other than cantilevered structure/hanger/ curtain wall remedial works in the force range 2 kN – 220 kN	Buildings Department PNAP APP-169 (Oct 2023) App. B
	Proof load test of spiders in the force range 1 kN – 100 kN	Buildings Department Code of Practice for the Structural Use of Steel (2011) Cl. 16.2.1 Buildings Department APP-37 (May 2012) App. C

Stanger Asia Limited
史達嘉亞洲有限公司
DD 83 Lot 549, 553, 556 Sha Tau Kok Road, Fanling, New Territories, Hong Kong
香港新界粉嶺沙頭角公路 83 區 549, 553 及 556 地段

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Underground Utility Survey	Pipe cable locating / Electromagnetic locating	Specifications for Nondestructive Testing, Surveying, Imaging and Diagnosis for Underground Utilities – 1.1 Pipe Cable Locating / Electromagnetic Locating (2019) published by Department of Land Surveying and Geo-Informatics (LSGI) of The Hong Kong Polytechnic University
Welds (destructive)	Bend test on welds in metallic materials	BS EN 910: 1996 BS EN ISO 5173: 2023
	Charpy V-notch impact test on welds in metallic materials	BS EN 875: 1995 BS EN ISO 9016: 2011
	Fracture test on welds in metallic materials	BS EN 1320: 1997
	Longitudinal tensile test on welds in metallic materials in the force range 20 kN – 1500 kN	BS EN 876: 1995 BS EN ISO 5178: 2011
	Macroscopic examination on welds in metallic materials	BS EN 1321: 1997 + Amd. 14972 BS EN ISO 17639: 2022
	Transverse tensile test on welds in metallic materials in the force range 15 kN – 1500 kN	BS EN 895: 1995 BS EN ISO 4136: 2011
	Vickers hardness test across welded joints in the scale of HV 10	BS EN 1043: Part 1: 1996 BS EN ISO 9015-1: 2011

ETS-Testconsult Limited
東業德勤測試顧問有限公司

ADDRESS : 8/F, Block B, Veristrong Industrial Centre,
地址 34-36 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 34-36 號豐盛工業中心B 座 8 樓

ENQUIRY : Mr Tony WONG Yiu-keung
查詢 黃耀強先生

TELEPHONE : 2695 8318
電話

FAX : 2695 3944
傳真

E-MAIL : etl@ets-testconsult.com
電郵

WEBSITE ADDRESS : http://www.ets-testconsult.com/
網址

CLIENTELE : Public
服務對象 公眾

ETS-Testconsult Limited
東業德勤測試顧問有限公司

ADDRESS
地址

Main Laboratory	:	8/F, Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong 香港新界火炭坳背灣街 34-36 號豐盛工業中心 B 座 8 樓
Branch Laboratory	:	G/F, 1B & Workshop, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong 香港新界火炭坳背灣街 34-36 號豐盛工業中心 B 座地下 DD129 Lot 2176-A Deep Bay Road, Lau Fau Shan, Yuen Long, New Territories, Hong Kong 香港新界元朗流浮山深灣路 129 區 2176-A 地段
ACCREDITED TEST CATEGORIES **認可測試類別**	:	Calibration Services 校正服務 Construction Materials 建築材料 Environmental Testing 環境測試

ETS-Testconsult Limited
東業德勤測試顧問有限公司
8/F, Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 34-36 號豐盛工業中心 B 座 8 樓

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Construction materials testing equipment		
- Anvil	Verification in accordance with in-house method CQS/057/Z for mass, hardness and dimensional requirements as specified in BS EN 12504-2: 2001 Cl. 4.2	
	Mass: 16 kg	0.6 g
	Hardness of center plate: minimum 52 HRC	1.6 HRC
	Outer diameter: 150 mm	0.03 mm
- Cement grout flow cone	Verification in accordance with in-house method CQS/002/Z for the performance as specified in ASTM C939-16a Cl. 9	
	Time of efflux of water from cone: 8.0 s	0.06 s
- Compacting bar	Verification in accordance with in-house method CQS/033/Z for the dimensional and mass requirements as specified in CS1: 2010 Vol. 1 Cl. A10	
	Dimensions of ramming face: 25 mm x 25 mm	0.1 mm
	Length: 380 mm	0.5 mm
	Mass: 1.8 kg	0.05 kg
- Covermeter	Calibration of depth for cover in accordance with in-house method CQS/039/L using a device as specified in BS 1881: Part 204: 1988 Cl. 6.4 (Method C) over the following range :	
	10 mm to 200 mm	0.7 mm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

ETS-Testconsult Limited
東業德勤測試顧問有限公司
8/F, Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 34-36 號豐盛工業中心 B 座 8 樓

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Construction materials testing equipment (cont'd)		
- Cube mould	Verification in accordance with in-house method CQS/008/Z for dimensional requirements as specified in BS 4550-3: Section 3.4: 1978 Cl. 2.3	
	Dimensions: 70.7 mm	0.05 mm
	Flatness: not more than 0.03 mm or 0.06 mm	0.02 mm
	Squareness: not more than 0.5 mm	0.1 mm
	On-site verification in accordance with in-house method CQS/008/Z for dimensional requirements as specified in BS 4550-3: Section 3.4: 1978 Cl. 2.3	
	Dimensions: 70.7 mm	0.05 mm
	Flatness: not more than 0.03 mm or 0.06 mm	0.02 mm
	Squareness: 0.5 mm	0.1 mm
	Verification in accordance with in-house method CQS/034/Z for dimensional requirements as specified in CS1: 2010 Vol. 1 Cl. A25	
	Dimensions: 100 mm or 150 mm	0.05 mm
	Flatness: not more than 0.03 mm or 0.06 mm	0.02 mm
	Perpendicularity: 0.5 mm	0.1 mm
	Parallelism: 1 mm	0.1 mm
	On-site verification in accordance with in-house method CQS/034/Z for dimensional requirements as specified in CS1: 2010 Vol. 1 Cl. A25	
	Dimensions: 100 mm or 150 mm	0.05 mm
	Flatness: not more than 0.03 mm or 0.06 mm	0.02 mm
	Perpendicularity: 0.5 mm	0.1 mm
	Parallelism: 1 mm	0.1 mm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

ETS-Testconsult Limited
東業德勤測試顧問有限公司
8/F, Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 34-36 號豐盛工業中心 B 座 8 樓

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Construction materials testing equipment (cont'd)		
- Curing tank	On-site verification for following parameter in accordance with in-house method CQS/035/Z for requirements in CS 1: 2010 Vol. 1 Cl. A28	
	- temperature distribution at a range of (27 ± 3) ℃	0.6 K
	- efficiency of circulation	0.1 min
- Drying oven	On-site calibration for temperature at different locations in drying oven in accordance with in-house method CQS/002/T over the following ranges :	
	10 °C to 40 °C	0.11 K
	above 40 °C to 70 °C	0.14 K
	above 70 °C to 300 °C	0.27 K
	above 300 °C to 450 °C	0.55 K

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

ETS-Testconsult Limited
東業德勤測試顧問有限公司
8/F, Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 34-36 號豐盛工業中心 B 座 8 樓

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Construction materials testing equipment (cont'd)		
- Dry-well	Calibration for following parameters in accordance with in-house method CQS/004/T over the following ranges :	
	Temperature	
	40 °C to 200 °C	0.073 K
	above 200 °C to 450 °C	0.095 K
	Stability	
	40 °C to 200 °C	0.028 K
	above 200 °C to 450 °C	0.056 K
	Uniformity	
	40 °C to 200 °C	0.086 K
	above 200 °C to 450 °C	0.130 K
	On-site calibration for following parameters in accordance with in-house method CQS/004/T over the following ranges :	
	Temperature	
	40 °C to 200 °C	0.073 K
	above 200 °C to 450 °C	0.095 K
	Stability	
	above 40 °C to 200 °C	0.028 K
	above 200 °C to 450 °C	0.056 K
	Uniformity	
	40 °C to 200 °C	0.086 K
	above 200 °C to 450 °C	0.130 K

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

ETS-Testconsult Limited
東業德勤測試顧問有限公司
8/F, Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 34-36 號豐盛工業中心 B 座 8 樓

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Construction materials testing equipment (cont'd)		
- Flow table for determination of flow of concrete	Verification in accordance with in-house method CQS/036/Z for dimensional and mass requirements as specified in CS1: 2010 Vol. 1 Cl. A15.1	
	Dimensions of metal plate: 700 mm x 700 mm	0.3 mm
	Thickness of metal plate: minimum 2 mm	0.05 mm
	Diameter of central circle: 210 mm	0.05 mm
	Fall height: 40 mm	0.05 mm
	Mass: 16 kg	5 g
- Incubator	On-site calibration for temperature at different locations in incubator in accordance with in-house method CQS/002/T over the following ranges :	
	10 °C to 40 °C	0.11 K
	above 40 °C to 70 °C	0.14 K
	above 70 °C to 105 °C	0.24 K
- Levelling staff	Calibration for length in accordance with in-house method CQS/041/L over the following range :	
	0 m to 5 m	1.5 mm
- Metal mould for determination of flow of concrete	Verification in accordance with in-house method CQS/043/Z for the dimensional requirements as specified in : CS1: 2010 Vol. 1 Cl. A15.2	
	Internal diameter of base: 200 mm	0.1 mm
	Internal diameter of top: 130 mm	0.1 mm
	Height: 200 mm	0.05 mm
	Thickness of metal: 1.5 mm	0.1 mm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

ETS-Testconsult Limited
東業德勤測試顧問有限公司
8/F, Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 34-36 號豐盛工業中心 B 座 8 樓

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Construction materials testing equipment (cont'd)		
- Temperature bath	Calibration for following parameters in accordance with in-house methods CQS/004/T over the following ranges :	
	Temperature	
	10 °C to 70 °C	0.064 K
	above 70 °C to 180 °C	0.099 K
	Stability	
	10 °C to 180 °C	0.036 K
	Uniformity	
	10 °C to 180 °C	0.045 K
	On-site calibration for following parameters in accordance with in-house methods CQS/004/T over the following ranges :	
	Temperature	
	10 °C to 70 °C	0.064 K
	above 70 °C to 180 °C	0.099 K
	Stability	
	10 °C to 180 °C	0.036 K
	Uniformity	
	10 °C to 180 °C	0.045 K

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

ETS-Testconsult Limited
東業德勤測試顧問有限公司
8/F, Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 34-36 號豐盛工業中心 B 座 8 樓

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Construction materials testing equipment (cont'd)		
- Marsh funnel	Verification for performance in accordance with the requirements as specified in ASTM D6910-09 Cl. 9, or ISO 10414-1: 2008 Cl. 6.2.1.1	
	Time of efflux of water from cone: (26 ± 0.5) s	0.1 s
- Measuring cylinder	Calibration for volume by gravimetric method in accordance with in-house method CQS/023/Z over the following ranges :	
	0 ml to 10 ml	0.03 ml
	above 10 ml to 100 ml	0.16 ml
	above 100 ml to 500 ml	0.76 ml
	above 500 ml to 1000 ml	1.6 ml
- Mud balance	Verification for density in accordance with ASTM D4380-12 Cl. 7 at 1 g/cm^3	0.004 g/cm^3
- Rebound Hammer	Verification in accordance with in-house method CQS/026/Z by determining the rebound value using an anvil which complies with BS EN 12504-2: 2001 Cl. 4.2, or BS EN 12504-2: 2012 Cl. 4.2	1 rebound count
- Slump cone	Verification in accordance with in-house method CQS/031/Z for the dimensional requirements as specified in : CS1: 2010 Vol. 1 Cl. A5	
	Internal diameter of base: 200 mm	0.1 mm
	Internal diameter of top: 100 mm	0.1 mm
	Wall thickness: minimum 1.5 mm	0.1 mm
	Height: 300 mm	0.05 mm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

ETS-Testconsult Limited
東業德勤測試顧問有限公司
8/F, Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 34-36 號豐盛工業中心 B 座 8 樓

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Construction materials testing equipment (cont'd)		
- Step wedge	Calibration for thickness of the wedge in accordance with in-house method CQS/010/L over the following range :	
	1 mm to 20 mm	6 μm
- Tamping bar for determination of flow of concrete	Verification in accordance with in-house method CQS/044/Z for the dimensional requirements as specified in CS1: 2010 Vol. 1 Cl. A15.3	
	Length of square section: 200 mm	0.3 mm
	Length of circular handle: 120 mm to 150 mm	0.3 mm
	Dimensions of square section: 40 mm x 40 mm	0.05 mm
- Tamping rod	Verification in accordance with in-house method CQS/032/Z for the dimensional requirements as specified in CS1: 2010 Vol. 1 Cl. A6	
	Diameter: 16 mm	0.1 mm
	Length: 600 mm	0.5 mm
- Ultrasonic test blocks (V2 calibration block)	Verification in accordance with in-house method CQS/021/Z for the dimensional requirements as specified in BS EN ISO 7963: 2010 Cl. 4 (excluding average surface roughness)	
	Dimensions: 5 mm to 50 mm	0.03 mm
	Angle: 30°	0.1°
- Weld gauge	Calibration for following parameters in accordance with in-house method CQS/009/L	
	Main rule: 0.5 mm to 60 mm	0.3 mm
	Sliding rule: 0.5 mm to 25 mm	0.3 mm
	Vernier rule: 0.5 mm to 25 mm	0.05 mm
	Angle gauge: 90°to 150°	1°
	Main and angle rule: 0.5 mm to 40 mm	0.6 mm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

ETS-Testconsult Limited
東業德勤測試顧問有限公司
8/F, Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 34-36 號豐盛工業中心 B 座 8 樓

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Electrical measurements		
- Time and frequency measuring instruments		
- Stop watch / Timer	Calibration for time in accordance with in-house method CQS/001/E over the following ranges :	
	0.5 second to 1 hour	0.07 s
	above 1 hour to 2 hours	0.12 s
	above 2 hours to 3 hours	0.18 s
	above 3 hours to 4 hours	0.23 s

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

ETS-Testconsult Limited
東業德勤測試顧問有限公司
8/F, Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 34-36 號豐盛工業中心 B 座 8 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related measurements		
- Angle measurements		
- Bevel protractor	Calibration for angle in accordance with in-house method CQS/008/L over the following ranges :	
	15° to 90°	3.0 min of arc
	above 90° to 140°	5.0 min of arc
- Spirit level (cylindrical vial)	Calibration for angle of tilt in accordance with in-house method CQS/021/L over the following range :	
	0 mm/m to 17.45 mm/m	0.18 mm/m
- Square	Calibration for squareness of edges of blade to working faces of stock in accordance with in-house method CQS/018/L over the following range :	
	- square with inner length of blade: 5 mm to 200 mm	9 μm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

ETS-Testconsult Limited
東業德勤測試顧問有限公司
8/F, Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 34-36 號豐盛工業中心 B 座 8 樓

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Length and related measurements (cont'd)		
- Length measuring instruments		
- Calliper	Calibration for length in accordance with in-house method CQS/002/L over the following ranges :	
	0 mm to 300 mm	0.02 mm
	above 300 mm to 600 mm	0.04 mm
- Coating thickness gauge	Calibration for length in accordance with in-house method CQS/013/L over the following range :	
	0.01 mm to 11.66 mm	8.3 μm
- Depth gauge	Calibration for length in accordance with in-house method CQS/023/L over the following range :	
	0 mm to 500 mm	0.03 mm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

ETS-Testconsult Limited
東業德勤測試顧問有限公司
8/F, Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 34-36 號豐盛工業中心 B 座 8 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related measurements (cont'd)		
- Length measuring instruments (cont'd)		
- Dial gauge	Calibration for length using micrometer head in accordance with in-house method CQS/003/L in increasing and decreasing mode over the following range :	
	0 mm to 50 mm	6 μm
	Calibration for length using gauge block in accordance with in-house method CQS/024/L in increasing mode over the following ranges :	
	0 mm to 50 mm above 50 mm to 100 mm	3 μm 5 μm
	Calibration for length using micrometer head and gauge block in accordance with in-house method CQS/024/L in increasing mode over the following range :	
	0 mm to 100 mm	5 μm
- Digital indicator	Calibration for length using gauge block in accordance with in-house method CQS/004/L over the following ranges :	
	0 mm to 25 mm above 25 mm to 50 mm	2 μm 5 μm
	Calibration for length using micrometer head in accordance with in-house method CQS/005/L over the following ranges :	
	0 mm to 25 mm above 25 mm to 50 mm	2 μm 0.02 mm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

ETS-Testconsult Limited
東業德勤測試顧問有限公司
8/F, Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 34-36 號豐盛工業中心 B 座 8 樓

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Length and related measurements (cont'd)		
- Length measuring instruments (cont'd)		
- Displacement transducer (LVDT)	Calibration for length in accordance with in-house method CQS/004/L over the following range :	
	0 mm to 100 mm	9 μm
- Dipmeter / Water level measuring tape	Calibration for length in accordance with in-house method CQS/040/L over the following range :	
	0 mm to 200 m	1.2 mm per 5 m
- Extensometer - Grade D with gauge length from 25 mm to 200 mm	On-site calibration for displacement using calibration rig and verification of grade in in accordance with BS 3846: 1970 (excluding determination of calibration factor) over the following range :	
	0.015 mm to 6 mm	2.0 μm
- Class 1 with gauge length from 25 mm to 200 mm	On-site calibration for displacement using calibration rig and verification of grade in in accordance with BS EN ISO 9513: 2002 over the following range :	
	0.015 mm to 6 mm	2.0 μm
- External micrometer	Calibration for travel length in accordance with in-house method CQS/001/L over the following range :	
	0 mm to 50 mm	3 μm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

ETS-Testconsult Limited
東業德勤測試顧問有限公司
8/F, Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 34-36 號豐盛工業中心 B 座 8 樓

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Length and related measurements (cont'd)		
- Length measuring instruments (cont'd)		
- Feeler gauge	Calibration for thickness of blade in accordance with in-house method CQS/007/L over the following range :	
	0.01 mm to 2 mm	3.4 µm
- Measuring tape	Calibration for length in accordance with in-house method CQS/014/L over the following range :	
	0 mm to 200 m	0.68 mm per 5 m
- Micrometer head	Calibration for length in accordance with in-house method CQS/022/L over the following range :	
	0 mm to 25 mm	1.3 µm
	above 25 mm to 50 mm	2.3 µm
- Plastic foil	Calibration for thickness in accordance with in-house method CQS/013/L over the following range :	
	0.01 mm to 11.66 mm	5.8 µm
- Steel rule	Calibration for length in accordance with in-house method CQS/015/L over the following ranges :	
	0 mm to 200 mm	0.2 mm
	above 200 mm to 1 m	0.5 mm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

ETS-Testconsult Limited
東業德勤測試顧問有限公司
8/F, Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 34-36 號豐盛工業中心 B 座 8 樓

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Length and related measurements (cont'd)		
- Length measuring instruments (cont'd)		
- Taper gauge	Calibration for length in accordance with in-house method CQS/034/L over the following range :	
	1 mm to 25 mm	0.03 mm
- Ultrasonic thickness gauge	Calibration for thickness in accordance with in-house method CQS/032/L over the following ranges :	
	2 mm to 100 mm	(0.02 + 0.006 L) mm where L is the length in mm
	above 100 mm to 200 mm	(0.2 + 0.006 L) mm where L is the length in mm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

ETS-Testconsult Limited
東業德勤測試顧問有限公司
8/F, Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 34-36 號豐盛工業中心 B 座 8 樓

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Length and related measurements (cont'd)		
- Rotational speed measurements		
- Tachometer (non-contact type)	Calibration for speed in accordance with in-house method CQS/039/Z over the following ranges :	
	60 rpm to 120 rpm	0.04 rpm
	above 120 rpm to 600 rpm	0.02 rpm
	above 600 rpm to 6000 rpm	0.2 rpm
	above 6000 rpm to 9000 rpm	0.4 rpm
	above 9000 rpm to 90000 rpm	2 rpm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

ETS-Testconsult Limited
東業德勤測試顧問有限公司
8/F, Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 34-36 號豐盛工業中心 B 座 8 樓

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related measurements		
- Weight and balance		
- Electronic balance	Calibration for mass using following OIML Class standard weights (1) E2 weights from 1 mg to 500 g (2) F1 weights from 1 g to 10 kg (3) F1 / F2 weights of 20 kg in accordance with in-house method CQS/001/W over the following ranges :	
	1 mg to 10 g	0.04 mg
	above 10 g to 100 g	0.08 mg
	above 100 g to 250 g	0.13 mg
	above 250 g to 400 g	0.40 mg
	above 400 g to 1 kg	1.0 mg
	above 1 kg to 5 kg	4.6 mg
	above 5 kg to 10 kg	8.6 mg
	above 10 kg to 20 kg	37 mg
	above 20 kg to 50 kg	75 mg
	above 50 kg to 160 kg	7.3 g
	On-site calibration for mass using following OIML Class standard weights (1) E2 weights from 1 mg to 500 g (2) F1 weights from 1 g to 10 kg (3) F1 / F2 weights of 20 kg in accordance with in-house method CQS/001/W over the following ranges :	
	1 mg to 10 g	0.04 mg
	above 10 g to 100 g	0.08 mg
	above 100 g to 250 g	0.13 mg
	above 250 g to 400 g	0.40 mg
	above 400 g to 1 kg	1.0 mg
	above 1 kg to 5 kg	4.6 mg
	above 5 kg to 10 kg	8.6 mg
	above 10 kg to 20 kg	37 mg
	above 20 kg to 50 kg	75 mg
	above 50 kg to 160 kg	7.3 g

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

ETS-Testconsult Limited
東業德勤測試顧問有限公司
8/F, Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 34-36 號豐盛工業中心 B 座 8 樓

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related measurements (cont'd)		
- Weight and balance (cont'd)		
- Weights (Standard values)	Calibration for mass in accordance with in-house method CQS/002/W at the following specific nominal values :	
	1 mg	12 µg
	2 mg	12 µg
	5 mg	17 µg
	10 mg	17 µg
	20 mg	17 µg
	50 mg	17 µg
	100 mg	17 µg
	200 mg	26 µg
	500 mg	26 µg
	1 g	0.04 mg
	2 g	0.05 mg
	5 g	0.06 mg
	10 g	0.07 mg
	20 g	0.10 mg
	50 g	0.12 mg
	100 g	0.18 mg
	200 g	0.4 mg
	500 g	4 mg
	1 kg	0.02 g
	2 kg	0.02 g
	5 kg	0.04 g
	10 kg	0.2 g
	20 kg	0.2 g
- Weights (Non-standard values)	Calibration for mass in accordance with in-house method CQS/002/W over the following ranges :	
	1 g to 100 g	0.45 mg
	above 100 g to 200 g	0.86 mg
	above 200 g to 600 g	6.8 mg
	above 600 g to 6 kg	0.07 g
	above 6 kg to 20 kg	0.3 g

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

ETS-Testconsult Limited
東業德勤測試顧問有限公司
8/F, Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 34-36 號豐盛工業中心 B 座 8 樓

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related measurements (cont'd)		
- Force measurements		
- Force testing machines		
- Concrete testing machine	On-site calibration for compressive force using Grade 1.0 load cells and verification of grade in accordance with BS 1610: Part: 1: 1992 (constant true force method) over the following range :	
	0.2 kN to 3000 kN	0.40 % of reading
	On-site calibration for compressive force using Class 1.0 load cells and verification of class in accordance with BS EN 12390-4: 2000: Annex B, or CS1: 2010 Vol. 2 App. D (constant true force method for above two standards) over the following range :	
	0.2 kN to 3000 kN	0.40 % of reading
- Universal testing machine in compression mode	On-site calibration for compressive force using Class 1.0 load cells and verification of class in accordance with BS EN ISO 7500-1: 2004 (constant true force method) over the following range :	
	0.2 kN to 3000 kN	0.40 % of reading
	On-site calibration for compressive force using Grade 1.0 load cells and verification of grade in accordance with BS 1610: Part 1: 1985, or BS 1610: Part 1: 1992 (constant true force method for above two standards) over the following range :	
	0.2 kN to 3000 kN	0.40 % of reading

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

ETS-Testconsult Limited
東業德勤測試顧問有限公司
8/F, Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 34-36 號豐盛工業中心 B 座 8 樓

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related measurements (cont'd)		
- Force measurements (cont'd)		
- Force testing machines (cont'd)		
- Universal testing machine in tension mode	On-site calibration for tensile force in accordance with in-house method CQS/012/F over the following range :	
	1 kN to 50 kN	0.26 % to 0.32 % of reading
- Impact testing machine	On-site indirect calibration for energy absorbed by breaking of Charpy V reference test piece in accordance with BS EN 10045-2: 1993 Cl. 6, or BS EN ISO 148-2: 2008 Cl. 7 over the following ranges :	
	1 J to 40 J	0.6 J at 22.2 J
	above 40 J to 220 J	3.3 J at 122.4 J
- Load cell	Calibration for compressive force in accordance with in-house method CQS/009/F over the following ranges :	
	0.2 kN to 50 kN	0.08 % to 0.63 % of reading
	above 50 kN to 300 kN	0.11 % to 0.31 % of reading
	above 300 kN to 3000 kN	0.15 % to 0.88 % of reading
- Proving ring	Calibration for compressive force in accordance with GEOPSPEC 3: 2017 Cl. A.3.1 over the following ranges :	
	0.1 kN to 10 kN	0.10 % to 0.6 % of reading
	above 10 kN to 50 kN	0.11 % to 0.39 % of reading
- Pull-off tester	Calibration for compressive force in accordance with in-house method CQS/010/F over the following range :	
	1 kN to 50 kN	0.17 % to 3.1 % of reading

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

ETS-Testconsult Limited
東業德勤測試顧問有限公司
8/F, Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 34-36 號豐盛工業中心 B 座 8 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related measurements (cont'd)		
- Hardness measurements		
- Hardness testing machine	On-site indirect calibration for testing machine for Vickers hardness scales in accordance with BS 427: 1990 cl. 16, 17 & 19, or BS EN ISO 6507-2: 1998 cl. 5 over the following ranges :	
	212 HV 5 to 757 HV 5	2.3 % HV
	210 HV 10 to 768 HV 10	1.9 % HV
	218 HV 30 to 762 HV 30	1.9 % HV

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

ETS-Testconsult Limited
東業德勤測試顧問有限公司
8/F, Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 34-36 號豐盛工業中心 B 座 8 樓

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related measurements (cont'd)		
- Pressure measurements		
- Pressure gauge, pressure transducer and pressure recorder	Calibration for gauge pressure in accordance with in-house method CQS/003/P using air as pressure medium over the following ranges :	
	0 kPa to 2000 kPa	0.36 kPa
	On-site calibration for gauge pressure in accordance with in-house method CQS/003/P using air as pressure medium over the following range :	
	0 kPa to 2000 kPa	0.36 kPa
	Calibration for hydraulic pressure in accordance with in-house method CQS/001/P using dead-weight tester with oil as pressure medium over the following ranges :	
	600 kPa to 6000 kPa	5 kPa to 14 kPa
	above 6000 kPa to 20000 kPa	23 kPa to 48 kPa
	above 20000 kPa to 60000 kPa	48 kPa to 140 kPa
	above 60000 kPa to 100000 kPa	140 kPa to 230 kPa

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

ETS-Testconsult Limited
東業德勤測試顧問有限公司
8/F, Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 34-36 號豐盛工業中心 B 座 8 樓

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related measurements (cont'd)		
- Pressure measurements (cont'd)		
- Pressure gauge, pressure transducer and pressure recorder (cont'd)	Calibration for pressure in accordance with in-house method CQS/002/P using water as pressure medium over the following range :	
	0 kPa to 1000 kPa	0.7 kPa
	On-site calibration for pressure in accordance with in-house method CQS/002/P using water as pressure medium over the following range :	
	0 kPa to 1000 kPa	0.7 kPa
	Calibration for pressure in accordance with GEOSPEC 3: 2017 Cl. A.3.2 using water as pressure medium over the following range :	
	0 kPa to 1000 kPa	0.7 kPa
	On-site calibration for pressure in accordance with GEOSPEC 3: 2017 Cl. A.3.2 using water as pressure medium over the following range :	
	0 kPa to 1000 kPa	0.7 kPa

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

ETS-Testconsult Limited
東業德勤測試顧問有限公司
8/F, Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 34-36 號豐盛工業中心 B 座 8 樓

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related measurements (cont'd)		
- Pressure measurements (cont'd)		
- Vacuum gauge and vacuum transducer	Calibration for pressure in accordance with in-house method CQS/003/P using air as medium over the following range :	
	-100 kPa to 0 kPa	0.24 kPa
	On-site calibration for pressure in accordance with in-house method CQS/003/P using air as medium over the following range :	
	-100 kPa to 0 kPa	0.24 kPa

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

ETS-Testconsult Limited
東業德勤測試顧問有限公司
8/F, Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 34-36 號豐盛工業中心 B 座 8 樓

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related measurements (cont'd)		
- Torque measurements		
- Torque wrench	Calibration for torque by comparison with a reference torque analyser in accordance with in-house method CQS/006/F over the following range :	
	1 N·m to 1000 N·m	0.95 % to 1.80 % of reading

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

ETS-Testconsult Limited
東業德勤測試顧問有限公司

8/F, Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 34-36 號豐盛工業中心 B 座 8 樓

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Temperature measurements		
- Digital / analogue thermometer with sensor and temperature recorder with sensor	Calibration for temperature in accordance with in-house method CQS/005/T at the following specific point :	
	0 °C	0.07 K
	Calibration for temperature using liquid bath in accordance with in-house method CQS/003/T over the following ranges :	
	-20 °C to 0 °C	0.114 K
	above 0 °C to 70 °C	0.080 K
	above 70 °C to 100 °C	0.35 K
	above 100 °C to 180 °C	0.40 K
	Calibration for temperature using dry-well in accordance with in-house method CQS/003/T over the following ranges :	
	40 °C to 100 °C	0.36 K
	above 100 °C to 300 °C	0.46 K
	above 300 °C to 400 °C	0.48 K
	above 400 °C to 450 °C	0.53 K
	On-site calibration for temperature using dry-well in accordance with in-house method CQS/003/T over the following ranges :	
	40 °C to 100 °C	0.36 K
	above 100 °C to 300 °C	0.46 K
	above 300 °C to 400 °C	0.48 K
	above 400 °C to 450 °C	0.53 K

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

ETS-Testconsult Limited
東業德勤測試顧問有限公司

8/F, Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 34-36 號豐盛工業中心 B 座 8 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Temperature measurements (cont'd)		
- Liquid in-glass thermometer	Calibration for temperature in accordance with in-house method CQS/005/T at the following specific point : 0 °C	 0.07 K
- Liquid in-glass thermometer	Calibration for temperature using liquid bath in accordance with in-house method CQS/003/T over the following ranges : 10 °C to 70 °C above 70 °C to 130 °C above 130 °C to 150 °C above 150 °C to 180 °C	 0.17 K 0.42 K 0.58 K 0.67 K

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

ETS-Testconsult Limited
東業德勤測試顧問有限公司
8/F, Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 34-36 號豐盛工業中心 B 座 8 樓

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Adhesive	Pull-off test of adhesive	In-house method TPF/016
	Pull-off test of mortar	BS EN 1542: 1999 Cl. 7.0 Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance and Building Materials Specification Part D Cl. 2.1.15 Method 1
Aggregates	Soundness	BS 812: Part 121: 1989 excluding Cl. 4 & App. A BS 6349-1: 1984 App B CS3: 2013 Section 19
Aggregates (chemical analysis)	Acid-soluble materials	BS 812 : Part 119 : 1985 < ***Excluding the following*** > Cl. 4
	Soluble silica content	HKHA MTS (97/99) Specification Part D 1.4.9
	Water-soluble chloride salts	BS 812 : Part 117 : 1988
	Water-soluble chloride ion content	CS3:2013 Section 21.3
	Acid-soluble chloride content	CS3:2013 Section 21.4
	Water-soluble sulphate content	BS 812 : Part 118 : 1988 Cl.5 *Excluding* Cl.4
	Acid-soluble sulphate content	CS3:2013 Section 21.5
	Total sulphate content	BS 812 : Part 118 : 1988 Cl.6 *Excluding* Cl.4
	Total sulphur content	CS3:2013 Section 21.6
	Presence of humus	CS3:2013 Section 21.7

ETS-Testconsult Limited
東業德勤測試顧問有限公司
8/F, Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 34-36 號豐盛工業中心 B 座 8 樓

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Cement (chemical analysis)	Aluminum content (Al_2O_3)	BS 4550 : Part 2 : 1970 Cl. 7.1
	Insoluble residue content	BS 4550 : Part 2 : 1970 Cl. 3.1
	Iron oxide content (Fe_2O_3)	BS 4550 : Part 2 : 1970 Cl. 8
	Loss-on-ignition (L.O.I.)	BS 4550 : Part 2 : 1970 Cl. 13.1 BS EN 196-2 : 1995 Cl. 7 BS EN 196-2 : 2013 Cl. 4.4.1
	Magnesia content (MgO)	BS 4550 : Part 2 : 1970 Cl. 9.1
	Manganese oxide content (Mn_2O_3)	BS 4550 : Part 2 : 1970 Cl. 14.1.4
	Phosphorus oxide content (P_2O_5)	BS 4550 : Part 2 : 1970 Cl. 14.2.2
	Potassium oxide content (K_2O)	BS 4550 : Part 2 : 1970 (AMD 4260) Cl. 16.1 < ***Excluding the following*** > Cl.16.1.3.2 BS EN 196-2 : 2013 Cl. 4.5.19 (Reference method)
	Sodium oxide content (Na_2O)	BS 4550 : Part 2 : 1970 (AMD 4260) Cl. 16.1 < ***Excluding the following*** > Cl.16.1.3.2 BS EN 196-2 : 2013 Cl. 4.5.19 (Reference method)
	Acid-soluble alkali content (equivalent Na_2O)	BS EN 196-2 : 2013 Cl. 4.5.19 (Reference method)
	Titanium oxide content (TiO_2)	BS 4550 : Part 2 : 1970 Cl. 14.2.1
	Total calcium oxide content (CaO)	BS 4550 : Part 2 : 1970 Cl. 6.1
	Total silica content (SiO_2)	BS 4550 : Part 2 : 1970 Cl. 4.1
	Total sulphur content (SO_3)	BS 4550 : Part 2 : 1970 Cl. 12
	Sulphate content (SO_3)	BS EN 196-2 : 1995 Cl. 8 BS EN 196-2 : 2013 Cl. 4.4.2
	Chloride content	BS 4550 : Part 2 : 1970 Cl. 17 (AMD 5713) BS EN 196-21 : 1992 Cl. 4 BS EN 196-2 : 2013 Cl. 4.5.16
	Ammonium hydroxide group	BS 4550 : Part 2 : 1970 Cl. 5
	Residue insoluble in hydrochloric acid and sodium carbonate	BS EN 196-2 : 1995 Cl. 9 BS EN 196-2 : 2013 Cl. 4.4.3

ETS-Testconsult Limited
東業德勤測試顧問有限公司
8/F, Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 34-36 號豐盛工業中心 B 座 8 樓

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Coating	Mass per unit area of hot dip galvanized coating by gravimetric method	BS EN 10346: 2015 Annex A ISO 1460: 2020
	Pull-off test of adhesion	BS EN ISO 4624: 2003, BS 3900-E10: 2003 Cl. 9.4.2 ASTM D4541-02 Test Method A
Concrete	Obtaining core samples	CS1: 2010 Section 15
	Depth of penetration of water under pressure	BS EN 12390-8: 2009 CS1: 2010 Section 18
	Heat of hydration monitoring (Temperature monitoring of concrete structure from 10 ˚C to 90 ˚C)	In-house method TPF/018
	Removal of concrete cover to expose reinforcement	Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance & Building Materials Specification Part D Cl. 4.2.1
	Obtaining drilling powder samples	Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance & Building Materials Specification Part D Cl. 6.4

ETS-Testconsult Limited
東業德勤測試顧問有限公司
8/F, Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 34-36 號豐盛工業中心 B 座 8 樓

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Concrete (chemical analysis)	Cement and aggregate content (by CaO determination)	BS 1881: Part 124: 1988 Cl. .5.4 & 5.9 CS 1 : 1990: Section 21.6.4, 21.6.6 & 21.6.7 CS 1 : 2010: Section 21.6.4, 21.6.6 & 21.6.7
	Aggregate / cement ratio	BS 1881 : Part 124 : 1988 Cl. 5.9
	Original water content	BS 1881 : Part 124 : 1988 Cl. 7 CS1: 1990 Cl. 21.7 CS1: 2010 Cl. 21.7
	Chloride ion content	BS 1881 : Part 124 : 1988 Cl. 10.2 CS1: 1990 Cl. 21.10.2 CS1: 2010 Cl. 21.10.2
	Sulphate content	BS 1881 : Part 124 : 1988 Cl. 10.3 CS1: 1990 Cl. 21.10.3 CS1: 2010 Cl. 21.10.3
	pH value	In-house Method TPC/060
	Detection of PFA	CS1: 1990 Cl. 21.5 CS1: 2010 Cl. 21.5

ETS-Testconsult Limited
東業德勤測試顧問有限公司
8/F, Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 34-36 號豐盛工業中心 B 座 8 樓

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Concrete (diagnostic)	Carbonation test	Building Research Establishment Information Paper IP 6/81 Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance & Building Materials Specification Part D Cl. 4.3.1 Method 1
	Covermeter survey	BS 1881: Part 204: 1988 + Amd. 6201 Cl. 7.3 Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance & Building Materials Specification Part D Cl. 4.3.2 Method 1 & Method 2
	Half-cell potential measurement	ASTM C876-91 Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance & Building Materials Specification Part D Cl. 4.3.4 & 4.3.5
	Resistivity measurement	BS 1881 Part 2d: 1986 Cl. 2.3
	Surface hardness measurement	BS EN 12504-2: 2001 BS EN 12504-2: 2012 BS EN 12504-2: 2021
	Ultrasonic pulse velocity measurement	BS 1881: Part 203: 1986 (by direct transmission) BS EN 12504-4: 2004 (by direct measurement) Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance & Building Materials Specification Part D Cl. 4.1.2
	Infrared thermography for detection of building surface defects	Hong Kong Concrete Institute TM1 (2009) Hong Kong Concrete Institute TM1 Issue 2 (2022)
	Surface penetration radar survey	Hong Kong Concrete Institute TM2 (2009)
Dimension stones	Absorption and bulk specific gravity	ASTM C97-02
	Compressive strength	ASTM C170-90 (Reapproved 1999)
	Flexural strength	ASTM C880-06 ASTM C880-15
	Strength of individual stone anchorages	ASTM C1354-15

ETS-Testconsult Limited
東業德勤測試顧問有限公司
8/F, Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 34-36 號豐盛工業中心 B 座 8 樓

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Fibre-reinforced concrete	Flexural toughness and first-crack strength of fibre-reinforced concrete in the force range 1 kN - 80 kN	ASTM C1018-92 ASTM C1018-97 ASTM C1609/C1609M-10
	Flexural strength of fibre reinforced beam specimens in the force range 1 kN - 80 kN	BS EN 14488-3: 2006
Ground water (chemical analysis)	Sulphate content	BS 1377 : Part 3 : 1990 Section 5.2 - 5.5 GEOSPEC 3 : 2001 : Test 9.3 GEOSPEC 3 : 2017 : Test 9.3
	pH value	GEOSPEC 3 : 2001 : Test 9.5 GEOSPEC 3 : 2017 : Test 9.5

ETS-Testconsult Limited
東業德勤測試顧問有限公司
8/F, Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 34-36 號豐盛工業中心 B 座 8 樓

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Foundation	Borehole video inspection test	Hong Kong Housing Authority Materials Testing Services (2024/2026) for Non-destructive Pile Testing Cl. D8 & D10
	Compression static loading tests on pile (SLT)	Architectural Services Department General Specification for Building (2022) Section 5.29 Buildings Department Code of Practice for Foundations (Apr 2017) Cl. 8.4 General Specification for Civil Engineering Works (2020) Vol. 1 App. 8.1 Hong Kong Housing Authority Specification Library (2022) PIL1.T610.9 to PIL1.T1110.9
	Crosshole sonic logging test (SOLT)	ASTM D6760-08 ASTM D6760-16
	Pile dynamic test (PDA)	ASTM D4945-08 ASTM D4945-17
	Pile integrity test (PIT)	ASTM D5882-07 ASTM D5882-16
	Plate load test (PLT)	BS 1377: Part 9: 1990 Cl. 4.1 (incremental loading) excluding Cl. 4.1.6.1 Buildings Department Code of Practice for Foundations (Apr 2017) Cl. 8.2(2) excluding 8.2(2)(f) to (h)
	Single-hole sonic logging test (SOLT)	ASTM D6760-16
	Tension static loading test on pile (SLT)	Architectural Services Department, Technical Instruction No. 4/2005: Particular Specification for Tension Piles Buildings Department Code of Practice for Foundations (2004) Cl. 8.10 Buildings Department Code of Practice for Foundations (2017) Cl. 8.10
	Ultrasonic echo sounder test (UEST)	Hong Kong Concrete Institute TM3 Issue 2 (2024)

ETS-Testconsult Limited
東業德勤測試顧問有限公司
8/F, Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 34-36 號豐盛工業中心 B 座 8 樓

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Metallic materials (non-destructive)	Ultrasonic testing of metallic material (Reflection method)	BS 5996: 1993 BS EN 10160: 1999
	Ultrasonic testing of H beams with parallel flanges and IPE beams (Manual method)	BS EN 10306: 2002
	Ultrasonic thickness measurement	BS EN ISO 16809: 2019 (Mode 1, 2, 3 & 4)
Paints & Varnishes	Dry-film coating thickness measurement by magnetic method	BS EN ISO 2808: 2001, BS 3900-C5: 1997 (method 6A – Magnetic induction) BS EN ISO 2808: 2007, BS 3900-C5: 2007 (method 7C – Magnetic induction)
	Dry-film coating thickness measurement by eddy current method	BS EN ISO 2808: 2001, BS 3900-C5: 1997 (method 7– Eddy current) BS EN ISO 2808: 2007, BS 3900-C5: 2007 (method 7D – Eddy current)

ETS-Testconsult Limited
東業德勤測試顧問有限公司
8/F, Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 34-36 號豐盛工業中心 B 座 8 樓

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Polymer modified mortar (chemical analysis)	Sample preparation	HKHA 002 : 1990 Cl.6 with modification
	Polymer solids content	HKHA 002 : 1990 Cl.8 with modification
	Aggregate/cement ratio	HKHA 002 : 1990 Cl.7 with modification
Polymer latex (chemical analysis)	Polymer solids content	HKHA 002 : 1990 Cl.2 with modification
Portland pulverised fuel ash cement (chemical analysis)	Magnesia content	BS 3892 : Part 1 : 1982 App. C
	Sulphur trioxide content	BS 4550 : Part 2 : 1970 Cl. 12
	Loss-on-ignition	BS 4550 : Part 2 : 1970 Cl. 13.2
	Proportion of pulverised fuel ash	In-house Method TPC / 073
Pulverised fuel ash (chemical analysis)	Magnesia content	BS 3892 : Part 1 : 1982 App. C
	Sulphuric anhydride content	BS 4550 : Part 2 : 1970 Cl. 10
	Loss-on-ignition	BS 4550 : Part 2 : 1970 Cl. 13.2
Repair mortar	Repair mortar core inspection	BS 1881: Part 120: 1983 Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance and Building Materials Specification Part D Cl. 2.1.22

ETS-Testconsult Limited
東業德勤測試顧問有限公司
8/F, Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 34-36 號豐盛工業中心 B 座 8 樓

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Rock	Direct shear strength of jointed rock	ASTM D5607-02
	Point load strength index of rock by diametral and axial tests	ASTM D5731-95 ASTM D5731-16 International Society for Rock Mechanics (1985) Suggested method for determining point load strength
	Porosity and density using saturation and buoyancy techniques	International Society for Rock Mechanics (1979) Part 1 Method 2: Suggested method for porosity/density determination using saturation and caliper techniques International Society for Rock Mechanics (1979) Part 1 Method 3: Suggested method for Porosity/density determination using saturation and buoyancy techniques
	Preparation of rock core specimens and determination of dimensional and shape tolerances	ASTM D4543-04
	Unconfined compressive strength of intact rock core specimens	ASTM D2938-95 (Reapproved 2002) excluding Cl. 5.2, 5.3, 9.3 & 9.4 ASTM D7012-07 Method C, excluding Cl. 5.2-5.7 & 5.9 International Society for Rock Mechanics (1979) Part 1: Suggested method for determining the uniaxial compressive strength of rock materials
	Water content of rock	International Society for Rock Mechanics (1979) Part 1 Method 1: Suggested method for determination of water content of a rock sample
	Dropping test of rock armour to determine the resistance to fracture	General Specification for Civil Engineering Works (2006) Vol. 2 Cl. 21.97 (1) & (2) & 21.99 (2)
	Particle size distribution of coarse grading of rock armour	BS EN 13383-2: 2002 Cl. 5
	Mass distribution of light and heavy gradings of rock armour	BS EN 13383-2: 2002 Cl. 6 (reference method only)

ETS-Testconsult Limited
東業德勤測試顧問有限公司
8/F, Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 34-36 號豐盛工業中心 B 座 8 樓

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Soil (Phase I)	Moisture content by oven-drying at 45°C ± 5°C	GEOSPEC 3: 2001 Test 5.1 GEOSPEC 3: 2017 Test 5.1
	Moisture content by oven-drying at 105°C ± 5°C	GEOSPEC 3: 2001 Test 5.2 GEOSPEC 3: 2017 Test 5.2
	Comparative test for the determination of moisture content by oven-drying	GEOSPEC 3: 2001 Test 5.3 GEOSPEC 3: 2017 Test 5.3
	Liquid limit, plastic limit and plasticity index	GEOSPEC 3: 2001 Test 6.1 GEOSPEC 3: 2017 Test 6.1
	Liquidity index	GEOSPEC 3: 2001 Test 6.2 GEOSPEC 3: 2017 Test 6.2
	Particle density by gas jar method	GEOSPEC 3: 2001 Test 7.1 GEOSPEC 3: 2017 Test 7.1
	Particle density by small pyknometer method	GEOSPEC 3: 2001 Test 7.2 GEOSPEC 3: 2017 Test 7.2
	Particle size distribution by wet sieving (with dispersant)	GEOSPEC 3: 2001 Test 8.1 GEOSPEC 3: 2017 Test 8.1
	Particle size distribution by wet sieving (without dispersant)	GEOSPEC 3: 2001 Test 8.2 GEOSPEC 3: 2017 Test 8.2
	Particle size distribution by hydrometer (with dispersant)	GEOSPEC 3: 2001 Test 8.5 GEOSPEC 3: 2017 Test 8.5
	Particle size distribution by hydrometer (without dispersant)	GEOSPEC 3: 2001 Test 8.6 GEOSPEC 3: 2017 Test 8.6
	Construction of a continuous particle size distribution curve from the results of wet sieving and sedimentation tests	GEOSPEC 3: 2001 Test 8.7 GEOSPEC 3: 2017 Test 8.7
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a 1000cc mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.1 GEOSPEC 3: 2017 Test 10.1

ETS-Testconsult Limited
東業德勤測試顧問有限公司
8/F, Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 34-36 號豐盛工業中心 B 座 8 樓

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Soil (Phase I) (cont'd)	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a 1000cc mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.2 GEOSPEC 3: 2017 Test 10.2
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a CBR mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.3 GEOSPEC 3: 2017 Test 10.3
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a CBR mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.4 GEOSPEC 3: 2017 Test 10.4
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a 1000cc mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.5 GEOSPEC 3: 2017 Test 10.5
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a 1000cc mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.6 GEOSPEC 3: 2017 Test 10.6
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a CBR mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.7 GEOSPEC 3: 2017 Test 10.7
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a CBR mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.8 GEOSPEC 3: 2017 Test 10.8

ETS-Testconsult Limited
東業德勤測試顧問有限公司
8/F, Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 34-36 號豐盛工業中心 B 座 8 樓

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Soil (Phase I) (cont'd)	In-situ bulk density and in-situ dry density of soils by the sand replacement method suitable for fine- and medium-grained soils (with small pouring cylinder)	GEOSPEC 3: 2001 Test 11.1 GEOSPEC 3: 2017 Test 11.1
	In-situ bulk density and in-situ dry density of soils by the sand replacement method suitable for fine-, medium- and coarse-grained soils (with large pouring cylinder)	GEOSPEC 3: 2001 Test 11.2 GEOSPEC 3: 2017 Test 11.2
	In-situ bulk density and in-situ dry density of soils by nuclear densometer method suitable for fine- and medium grained soils	GEOSPEC 3: 2001 Test 11.3 GEOSPEC 3: 2017 Test 11.3
	Relative compaction of fill material	GEOSPEC 3: 2001 Test 11.4 GEOSPEC 3: 2017 Test 11.4
	California Bearing Ratio (CBR)	GEOSPEC 3: 2001 Test 12.1 excluding Cl. 12.1.4.11 & 12.1.4.13 GEOSPEC 3: 2017 Test 12.1 excluding Cl. 12.1.4.11 & 12.1.4.13
	Density of soil by linear measurement method	BS 1377: Part 2: 1990 Cl. 7.2

ETS-Testconsult Limited
東業德勤測試顧問有限公司
8/F, Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 34-36 號豐盛工業中心 B 座 8 樓

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Soil (Phase II)	One-dimensional consolidation test	GEOSPEC 3: 2001 Test 14.1 GEOSPEC 3: 2017 Test 14.1
	Isotropic compression test in a triaxial cell	GEOSPEC 3: 2001 Test 14.2 GEOSPEC 3: 2017 Test 14.2
	Unconsolidated undrained triaxial compression test without pore pressure measurement	GEOSPEC 3: 2001 Test 15.1 GEOSPEC 3: 2017 Test 15.1
	Isotropically consolidated undrained triaxial compression test with pore pressure measurement	GEOSPEC 3: 2001 Test 15.2 GEOSPEC 3: 2017 Test 15.2
	Isotropically consolidated drained triaxial compression test with measurement of volume change	GEOSPEC 3: 2001 Test 15.3 GEOSPEC 3: 2017 Test 15.3
	Direct shear test (small shear box apparatus)	GEOSPEC 3: 2001 Test 16.1 GEOSPEC 3: 2017 Test 16.1
	Triaxial test on loosely compacted fill material	In-house method TPG/084
Soil (other)	GCO probe test	General Specification for Civil Engineering Works (2006) Vol. 1 App. 7.1
	In-situ redox potential of reinforced fill structure	GEOSPEC 2: 1989 Cl. 5.5
	Time domain reflectometry (TDR) test on soil nails	GEO Guidelines on Test Procedure using Time Domain Reflectometry (TDR) to determine the length of installed soil nails (July 2007)
	Pull-out test of soil nails	ENV 1997-1: Eurocode 7 GEOGUIDE 7 (2017) Cl. 6.3.2 Hong Kong Housing Authority Specification Library (2022) Cl. SLO.T310.9 to SLO.T320.9
	Redox potential	BS 1377: Part 3: 1990 Cl. 11
	Resistivity of soil by open container method	BS 1377: Part 3: 1990 Cl. 10.4
	Resistivity of soil by Wenner probe method	BS 1377: Part 3: 1990 Cl. 10.3 (Amd. 9028)
	Resistivity properties of fill material	GEOSPEC 2: 1989 Cl. 5.4

ETS-Testconsult Limited
東業德勤測試顧問有限公司
8/F, Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 34-36 號豐盛工業中心 B 座 8 樓

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Soil (chemical analysis)	Acid-soluble sulphate content and water-soluble sulphate content	BS 1377 : Part 3 :1990 Section 5.2 - 5.3
	Organic matter content	GEOSPEC 3 : 2001 : Test 9.1 GEOSPEC 3 : 2017 : Test 9.1
	Loss-on-ignition (L.O.I.)	GEOSPEC 3 : 2001 : Test 9.2 GEOSPEC 3 : 2017 : Test 9.2
	Total sulphate content (as SO_3)	GEOSPEC 3 : 2001 : Test 9.3 GEOSPEC 3 : 2017 : Test 9.3
	Water-soluble sulphate content (as SO_3)	GEOSPEC 3 : 2001 : Test 9.3 GEOSPEC 3 : 2017 : Test 9.3
	Water-soluble chloride content	GEOSPEC 3 : 2001 : Test 9.4 GEOSPEC 3 : 2017 : Test 9.4
	pH value	GEOSPEC 3 : 2001 : Test 9.5 GEOSPEC 3 : 2017 : Test 9.5
Solder alloy (chemical analysis)	Elemental composition:-	
- Tin base alloy	Lead content	In-house Method TPC/031/M (ICP-OES)

ETS-Testconsult Limited
東業德勤測試顧問有限公司
8/F, Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 34-36 號豐盛工業中心 B 座 8 樓

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Steel (chemical analysis)	Elemental composition: -	
- Carbon steel	Carbon, Chromium, Copper, Molybdenum, Manganese, Nitrogen, Niobium, Nickel, Silicon, Sulphur, Phosphorus and Vanadium	In-house Method TPC/022/M (Spark-OES)
- Low alloy steel	Carbon, Chromium, Copper, Molybdenum, Manganese, Nitrogen, Niobium, Nickel, Silicon, Sulphur, Phosphorus and Vanadium	In-house Method TPC/022/M (Spark-OES)
- Carbon steel and low alloy steel	Carbon equivalent value	In-house Method TPC/022/M (by calculation)
- Stainless steel (304, 304L, 316, 316L, 430 and 431)	Carbon, Chromium, Copper, Molybdenum, Manganese, Nitrogen, Nickel, Silicon, Sulphur and Phosphorus	In-house Method TPC/023/M (Spark-OES)

ETS-Testconsult Limited
東業德勤測試顧問有限公司
8/F, Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 34-36 號豐盛工業中心 B 座 8 樓

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Copper alloy (chemical analysis)		
- Aluminium bronze	Aluminium, Chromium, Copper, Iron, Lead, Manganese, Nickel, Phosphorus, Silicon, Tin, Zinc.	In-house Method TPC/024/M (Spark-OES)
- Brass	Aluminium, Arsenic, Chromium, Cobalt, Copper, Iron, Lead, Manganese, Nickel, Phosphorus, Silicon, Tin, Zinc.	In-house Method TPC/024/M (Spark-OES)
- Gunmetal	Aluminium, Antimony, Bismuth, Chromium, Cobalt, Copper, Iron, Lead, Manganese, Nickel, Phosphorus, Silicon, Sulphur, Tin, Zinc.	In-house Method TPC/024/M (Spark-OES)
Water (chemical analysis)	Alkaline carbonates and bicarbonates content	In-house method TPC/039

ETS-Testconsult Limited
東業德勤測試顧問有限公司
8/F, Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 34-36 號豐盛工業中心 B 座 8 樓

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Structural fixings	Proof load test of spiders in the force range 1 kN - 100 kN	Buildings Department APP-37 (May 2012) App. C In-house method TPF/029 in conjunction with the following specification(s): Buildings Department Code of Practice for the Structural Use of Steel (2011) Cl. 16.2.1
	Tensile proof load test of anchors, dowel bars and channel inserts by incremental loading in the force range 1 kN to 1000 kN	BS 5080: Part 1: 1993 Cl. 6, 7.1.1 & 7.1.3 with modification
	Tensile proof load test of drilled-in anchors used for cantilevered structure/hanger/curtain wall remedial works by incremental loading in the force range 1 kN – 1000 kN	Buildings Department PNAP APP-169 (Oct 2023) App. A
	Tensile proof load test of drilled-in anchors used for works other than cantilevered structure/hanger/ curtain wall remedial works in the force range 1 kN – 1000 kN	Buildings Department PNAP APP-169 (Oct 2023) App. B
	Tensile proof test of cementitious or polymer based grouted bolts or dowels or reinforcing bars works or/and steel T-bolts with cast-in channels in the force range 1 kN – 1000 kN	Buildings Department PNAP APP-169 (Oct 2023) App. C
	Shear proof load test of anchors, dowel bars & channel inserts by incremental loading in the force range 1 kN to 500 kN	BS 5080: Part 2: 1986 Cl. 7.1, 7.2.1 & 7.2.3 with modifications
	Shear proof load test of drilled-in anchors used for cantilevered structure/hanger/curtain wall remedial works by incremental loading in the force range 1 kN – 500 kN	Buildings Department PNAP APP-169 (Oct 2023) App. A
	Shear proof load test of drilled-in anchors used for works other than cantilevered structure/hanger/ curtain wall remedial works in the force range 1 kN – 500 kN	Buildings Department PNAP APP-169 (Oct 2023) App. B
	Shear proof load test for cementitious or polymer based grouted bolts or dowels or reinforcing bars works or/and steel T-bolts with cast-in channels in the force range 1 kN – 500 kN	Buildings Department PNAP APP-169 (Oct 2023) App. C

ETS-Testconsult Limited
東業德勤測試顧問有限公司
8/F, Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 34-36 號豐盛工業中心 B 座 8 樓

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Welds (non-destructive)	Liquid penetrant test (Colour contrast method)	ASME BPVC.V-2019 Article 6 BS 6443: 1984 BS EN 571-1: 1997 BS EN ISO 3452-1: 2013 BS EN ISO 3452-1: 2021 in conjunction with the following specification(s): ASME B31.1-2020 Para. 136.4.4 ASME B31.3-2020 Para. 344.4.2 ASME BPVC.I-2021 A-270.3 & A-270.4 ASME BPVC.IX-2019 Article I QW-195.2 AWS D1.1/D1.1M: 2020 Cl. 8 Part C BS 2633: 1987 Section 8 BS 2971: 1991 Section 7 BS 4515: Part 1: 2009 Section 12 BS 5135: 1984 Appendix H Table 18 and 19 BS 7123: 1989 Table 7 BS EN 25817: 1992 Table 1 BS EN ISO 5817: 2003 Table 1 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 BS EN ISO 23277: 2015 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2005) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel 2011 (2021 Edition) Table 14.3b PD 5500: 2018 Section 5

ETS-Testconsult Limited
東業德勤測試顧問有限公司
8/F, Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 34-36 號豐盛工業中心 B 座 8 樓

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Welds (non-destructive) (cont'd)	Magnetic particle test (Magnetic flow method colour contrast technique using permanent magnets, D.C. and A.C. yokes)	ASME BPVC.V-2019 Article 7 BS 6072: 1981 (1986) BS EN 1290: 1998 BS EN ISO 9934-1: 2001 BS EN ISO 9934-1: 2016 BS EN ISO 17638: 2009 BS EN ISO 17638: 2016 in conjunction with the following specification(s): ASME B31.1-2020 Para. 136.4.3 ASME B31.3-2020 Para. 344.3.2 ASME BPVC.I-2021 A-260.3 & A-260.4 AWS D1.1/D1.1M: 2020 Cl. 8 Part C BS 2633: 1987 Section 8 BS 2971: 1991 Section 7 BS 4515: Part 1: 2009 Section 12 BS 5135: 1984 Appendix H Table 18 and 19 BS 7123: 1989 Table 7 BS EN 25817: 1992 Table 1 BS EN ISO 5817: 2003 Table 1 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 BS EN ISO 23278: 2015 Table 1 & Cl. 5 Buildings Department Code of Practice for the Structural Use of Steel (2005) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel 2011 (2021 Edition) Table 14.3b PD 5500: 2018 Section 5

ETS-Testconsult Limited
東業德勤測試顧問有限公司
8/F, Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 34-36 號豐盛工業中心 B 座 8 樓

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Welds (non-destructive) (cont'd)	Radiographic examination (X-ray and gamma ray)	ASME BPVC.V-2019 Article 2 BS 2910: 1986 BS 2600: Part 1: 1983 BS EN 1435: 1997 BS EN ISO 17636-1: 2013 BS EN ISO 17636-1: 2022 in conjunction with the following specification(s): ASME B31.1-2020 Para. 136.4.5 ASME B31.3-2020 Table 341.3.2 ASME BPVC.I-2021 PW-51.3 & A-250 ASME BPVC.IX-2019 Article I QW-191.1.2 AWS D1.1/D1.1M: 2020 Cl. 8 Part C BS 2633: 1987 Section 8 BS 2971: 1991 Section 7 BS 4515: Part 1: 2009 Section 12 BS 5135: 1984 Appendix H Table 18 and 19 BS 7123: 1989 Table 7 BS EN 25817: 1992 Table 1 BS EN ISO 5817: 2003 Table 1 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2005) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel 2011 (2021 Edition) Table 14.3b PD 5500: 2018 Section 5

ETS-Testconsult Limited
東業德勤測試顧問有限公司
8/F, Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 34-36 號豐盛工業中心 B 座 8 樓

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Welds (non-destructive) (cont'd)	Ultrasonic test (Butt welds in plates & pipes, 'T' joint welds, nozzle welds and node welds)	ASME BPVC.V-2019 Article 4 BS 3923: Part 1: 1986 (Level 1, 2A, 2B & 3) BS EN 1714: 1998 (Level A, B & C) BS EN ISO 17640: 2010 (Level A, B & C) BS EN ISO 17640: 2018 (Level A, B and C) in conjunction with the following specification(s): ASME B31.1-2020 Para. 136.4.6 ASME B31.3-2020 Para. 344.6.2 ASME BPVC.I-2021 PW-52.3 ASME BPVC.IX-2019 Article I QW-191.2.2 AWS D1.1/D1.1M: 2020 Cl. 8 Part C BS 2633: 1987 Section 8 BS 2971: 1991 Section 7 BS 4515: Part 1: 2009 Section 12 BS 5135: 1984 Appendix H Table 18 and 19 BS 7123: 1989 Table 7 BS EN 25817: 1992 Table 1 BS EN ISO 5817: 2003 Table 1 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 BS EN ISO 11666: 2010 Cl. 5 & Annex A BS EN ISO 11666: 2018 Cl. 6 & Annex A Buildings Department Code of Practice for the Structural Use of Steel (2005) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel 2011 (2021 Edition) Table 14.3b PD 5500: 2018 Section 5

ETS-Testconsult Limited
東業德勤測試顧問有限公司
8/F, Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 34-36 號豐盛工業中心 B 座 8 樓

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Welds (non-destructive) (cont'd)	Visual examination	ASME BPVC.V-2019 Article 9 BS 5289: 1976 BS EN 970: 1997 BS EN ISO 17637: 2011 BS EN ISO 17637: 2016 in conjunction with the following specification(s): ASME B31.1-2020 Para. 136.4.2 ASME B31.3-2020 Table 341.3.2 ASME B31.9-2020 Para. 936.6 ASME BPVC.IX-2019 Article I QW-194 AWS D1.1/D1.1M: 2020 Cl. 8 Part C BS 2633: 1987 Section 8 BS 2971: 1991 Section 7 BS 4515: Part 1: 2009 Section 12 BS 5135: 1984 Appendix H Table 18 and 19 BS 5400-6: 1999 Cl. 5.5.2.4.1 BS 7123: 1989 Table 7 BS EN 25817: 1992 Table 1 BS EN ISO 5817: 2003 Table 1 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2005) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel 2011 (2021 Edition) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel (2011) Cl. 14.3.7.3 PD 5500: 2018 Section 5
	Visual examination and bend test on stud connectors	<Visual examination as follows:> ASME BPVC Section V:2019 Article 9 BS 5289: 1976 BS EN 970: 1997 BS EN ISO 17637: 2011 BS EN ISO 17637: 2016 <together with the following bend test method(s):> BS 5400-6: 1999 + Corr. 1: 2002 Cl. 5.5.4(b) BS EN ISO 14555: 2017 Cl. 11.2, 11.3 (excluding Torque wench method), 12.2 & 12.3 Buildings Department Code of Practice for the Structural Use of Steel (2011) Cl. 14.3.7.3

ETS-Testconsult Limited
東業德勤測試顧問有限公司
8/F, Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 34-36 號豐盛工業中心 B 座 8 樓

Environmental Testing 環境測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Asbestos in bulk	Sampling a) Cementitious b) Wet applied c) Dry applied d) Bonded	In-house Method TPE / 001 / A
Asbestos in bulk samples	Bulk material sampling for asbestos identification: - a) Spray coatings, encapsulated sprays and bulk materials b) Pipe/ thermal insulation c) Asbestos insulating board tiles d) Asbestos cement materials e) Gaskets, rope, seals, paper, felt and textiles f) Floor and wall coverings g) Textured decorative coatings h) Debris samples	HSG 248 (2nd edition: 2021) Cl. 4
	Identification a) Determination for presence and type of asbestos in bulk materials	In-house Method TPE / 002 / A (Polarised Light Microscopy) HSG 248 (2nd edition: 2021) App. 2
	b) Asbestos-containing material	Air Pollution Control Ordinance, Section 2 (G.N. 884. Gazette Published on 14/02/2014 No. 07 Vol. 18)
Asbestos air-borne fibres and dust	Air sampling - 10 minute control - 4 hour control - Clearance - Leak - Reassurance - Background - Penultimate - Environmental	In-house Method TPE / 003 / A
Asbestos air-borne samples	Sampling of airborne fibre a) Personal sampling b) Static sampling - Clearance indicator - Background - Leak - Reassurance - Near-source static sampling - Far-source/perimeter/ambient sampling	HSG 248 (2nd edition: 2021) Cl. 5
Asbestos air-borne samples	Fibre counting Airborne fibre concentration	MDHS 39/3 HSG 248 (2nd edition: 2021) App. 1

ETS-Testconsult Limited
東業德勤測試顧問有限公司
8/F, Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 34-36 號豐盛工業中心 B 座 8 樓

Environmental Testing 環境測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Saline water	Physical Examination :-	
	- Total Suspended Solids Dried at 103-105℃	In-house Method TPE/006/W (Gravimetric)
	- Turbidity	In-house Method TPE/005/W (Nephelometric)
Water and Wastewater	Physical Examination :-	
	- pH value	In-house Method TPE/003/W (Electrode)
	- Dissolved Oxygen	In-house Method TPE/004/W (Electrode)
	- Turbidity	In-house Method TPE/005/W (Nephelometric)
	- Total Suspended Solids Dried at 103-105℃	In-house Method TPE/006/W (Gravimetric)
	- Total Dissolved Solids Dried at 180℃	In-house Method TPE/007/W (Gravimetric)
	- Total Solids Dried at 103-105 ℃	APHA 19ed 2540B
	- Colour	APHA 19e 2120 A & B (Visual comparison)
	- Conductivity	In-house Method TPE/028/W (Electrode)
	- Alkalinity - Total	APHA 19e 2320B
	- Settleable Solids	APHA 19e 2540F
	Trace Metals :-	
	- Preliminary Treatment for Metals (Dissolved, total and total recoverable)	In-house Method TPE/012/W (Filtration/nitric acid-hydrochloric acid digestion)
	- Calcium, Magnesium, Potassium and Sodium (Dissolved and total)	In-house Method TPE/014/W (Flame AAS)
	- Barium, Cadmium, Chromium, Copper, Lead Manganese, Molybdenum, Nickel (Dissolved, total and total recoverable)	In-house Method TPE/029/W (ICP-OES)
	- Antimony, Arsenic, Iron, Tin, Vanadium, Zinc (Dissolved and total recoverable)	In-house Method TPE/029/W (ICP-OES)

ETS-Testconsult Limited
東業德勤測試顧問有限公司
8/F, Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 34-36 號豐盛工業中心 B 座 8 樓

Environmental Testing 環境測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Water and Wastewater (cont'd)	Non-Metallic Constituents :-	
	- Chloride	In-house Method TPE/008/W (Titrimetric)
	- Sulphate	In-house Method TPE/009/W (Gravimetric)
	- Nitrite	In-house Method TPE/010/W (Colorimetric)
	- Residual Chlorine (Free and Total)	In-house method TPE/033/W (DPD colorimetric method)
	- Phosphorus (Reactive)	APHA 23e 4500-P G
	- Phosphorus (Total)	APHA 23e 4500-P H
	- Nitrogen (Ammonia)	APHA 23e 4500-NH_3 H
	- Nitrogen (Total Kjeldahl)	APHA 23e 4500-N_{org} D
	- Nitrogen (Total Organic) (Total Kjeldahl – Ammonia)	In-house method TPE/043/W (By calculation)
	- Nitrogen (Total) (Total Kjeldahl + Nitrate + Nitrite)	In-house method TPE/042/W (By calculation)
	- Nitrogen (Total Oxidised)	In-house Method TPE/037/W (FIA)
	- Nitrogen (Nitrite)	In-house Method TPE/038/W (FIA)
	- Nitrogen (Nitrate)	In-house Method TPE/037/W (By calculation)
	Organic Pollutants :-	
	- Biochemical Oxygen-Demand (BOD_5)	In-house Method TPE/001/W (Electrode) BS 6068 : Section 2.14 : 1990
	- Chemical Oxygen-Demand (COD)	In-house Method TPE/002/W (Titrimetric) APHA 19e 5220 D (Closed reflux)
	- Oil and Grease	APHA 19e 5520 B
	- Anionic Surfactant (as MBAS)	APHA 19e 5540 C
	- Ultraviolet Absorption at 254 nm	APHA 19e 5910 B

ETS-Testconsult Limited
東業德勤測試顧問有限公司
8/F, Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 34-36 號豐盛工業中心 B 座 8 樓

Environmental Testing 環境測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Water and Wastewater (cont'd)	Microbial indicators :-	
	- Heterotrophic plate count (Colony count at 35℃) (Colony count at 37℃)	APHA 20e 9215A & B (TPE/001/B)
	- Total coliform	DoE (1983) The Bacteriological Examination of Drinking Water Supplies, 1982, Membrane Filtration Procedure: Section 7.8 and 7.9.4.1 Bacterial Confirmation: Section 7.9.4.3 (TPE/002/B)
	- Faecal coliform	DoE (1983) The Bacteriological Examination of Drinking Water Supplies, 1982, Membrane Filtration Procedure: Section 7.8 and 7.9.4.2 Bacterial Confirmation: Section 7.7.6.3 (TPE/002/B)
	- Enumeration of Faecal coliform	Environmental Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3 Environmental Protection Department, HK
	- *E. coli*	DoE (1983) The Bacteriological Examination of Drinking Water Supplies, 1982, Membrane Filtration Procedure: Section 7.8 and 7.9.4.2 Bacterial Confirmation: in-situ urease test (TPE/002/B)
		DoE (1983) The Bacteriological Examination of Drinking Water Supplies, 1982, Membrane Filtration Procedure: Section 7.8 and 7.9.4.2 Bacterial Confirmation: Section 7.9.4.4 (TPE/002/B)
	- Enumeration of *E. coli*	Environmental Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3 Environmental Protection Department, HK
	- Detection of *Enterococcus*	ISO 7899-2: 2000 (by membrane filtration method) (TPE/006/B)

ETS-Testconsult Limited
東業德勤測試顧問有限公司
8/F, Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 34-36 號豐盛工業中心 B 座 8 樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Water and Wastewater (cont'd)	Microbiological tests:-	
	- Detection of *Vibrio cholerae* (including Serogroups O1 and O139)	Centres for Disease Control and Prevention – Laboratory Methods for Diagnosis of Vibrio cholera Ch. V & VI
Drinking water	- *Legionella* spp. including *Legionella pneumophila*	BS EN ISO 11731-2:2008 & BS 6068- 4.18:2004 (TPE/004/B)
Treated Bathing Water, water for human use and consumption	- *Legionella* spp. including *Legionella pneumophila*	BS EN ISO 11731-2:2008 & BS 6068- 4.18:2004 (TPE/004/B)
Water, Wastewater and Cooling Tower Water	- *Legionella* spp. including *Legionella pneumophila*	AS/NZS 3896:2008 (TPE/003/B)

ETS-Testconsult Limited
東業德勤測試顧問有限公司
8/F, Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 34-36 號豐盛工業中心 B 座 8 樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Marine water	Microbial indicators :-	
	- Enumeration of Faecal coliform	Environmental Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3 Environmental Protection Department, HK
	- Enumeration of *E. coli*	Environmental Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3 Environmental Protection Department, HK
	- Total coliform	DoE (1983) The Bacteriological Examination of Drinking Water Supplies, 1982, Membrane Filtration Procedure: Section 7.8 and 7.9.4.1; Bacterial Confirmation: Section 7.9.4.3 (TPE/002/B)
	- Faecal coliform	DoE (1983) The Bacteriological Examination of Drinking Water Supplies, 1982, Membrane Filtration Procedure: Section 7.8 and 7.9.4.2; Bacterial Confirmation: Section 7.7.6.3 (TPE/002/B)
	- *E. coli*	DoE (1983) The Bacteriological Examination of Drinking Water Supplies, 1982, Membrane Filtration Procedure: Section 7.8 and 7.9.4.2; Bacterial Confirmation: in-situ urease test (TPE/002/B) DoE (1983) The Bacteriological Examination of Drinking Water Supplies, 1982, Membrane Filtration Procedure: Section 7.8 and 7.9.4.2; Bacterial Confirmation: Section 7.9.4.4 (TPE/002/B)
	Microbiological tests :-	
	- Detection of *Vibrio cholerae* (including Serogroups O1 and O139)	Centres for Disease Control and Prevention – Laboratory Methods for Diagnosis of Vibrio cholera Ch. V & VI

ETS-Testconsult Limited
東業德勤測試顧問有限公司
G/F, 1B & Workshop, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 34-36 號豐盛工業中心 B 座地下

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Cement stabilised soil	Testing method of unconfined compressive strength of cement stabilised soil core (with / without capping)	Interim Guidelines on Testing of Unconfined Compressive Strength of Cement Stabilised Soil Cores in Hong Kong (Oct 2017) App. B published by Geotechnical Division of The Hong Kong Institution of Engineers
	Unconfined compressive strength of cement stablished soil cores (with / without capping)	GEO Report No. 365 (Feb 2023) App. A
Metallic materials	Bend test of carbon steel bars	BS 4449: 1988 Cl. 10.2 CS2: 1995 Cl. 6.1 & 6.3
	Bond property of steel reinforcing bars by surface geometry measurement	CS2: 2012 (Rev. 6) Cl. 6.1 & 6.7.2 BS EN ISO 15630-1: 2002 Cl. 10, 11.2 & 11.3 in conjunction with following specification(s): BS 4449: 2005 + A3: 2016 Cl. 7.4 & 9
	Charpy V-notch impact test of metallic materials	BS EN 10045-1: 1990 BS EN ISO 148-1: 2010 BS EN ISO 148-1: 2016 in conjunction with the following specification(s): BS 4360: 1986 Cl. 27 BS 4360: 1990 Cl. 25 to 27 BS EN 10025-1: 2004 Cl. 10.2.2 BS EN 10025-2: 2004 Cl. 10.2 & Table 9 BS EN 10025-3: 2004 Cl. 10.2, Table 6 & 7 BS EN 10025-4: 2004 Cl. 10.2, Table 6 & 7 BS EN 10025-5: 2004 Cl. 10.2 & Table 5 BS EN 10025-6: 2004 + A1: 2009 Cl. 10.2, Table 6 & 7 BS EN 10210-1: 2006 Cl. 6.6.2, 9.2.3, Table A.3 & B.3 BS EN 10219-1: 2006 Cl. 6.7.2, 9.2.3, Table A.3, B.4 & B.5
	Mass per meter of steel reinforcing bars	BS 4449: 2005 + A2: 2009 + A3: 2016 Cl. 7.3 CS2: 2012 (Rev. 6) Cl. 6.1 & 6.2
	Proof load test of steel nuts in the force range 5 kN – 2000 kN	BS 3692: 1967 App. E.1 BS 3692: 2001 Annex C.1 BS 3692: 2014 Annex C.1 BS 4190: 2001 Annex A.1 BS 4190: 2014 Annex A.1 BS 4395: Part 1: 1969 App. C.1 BS 4395: Part 2: 1969 App. C.1 BS EN 20898-2: 1994, ISO 898-2: 1992 Cl. 5-7 & 8.1 BS EN ISO 898-2: 2012 Cl. 9.1

ETS-Testconsult Limited
東業德勤測試顧問有限公司
G/F, 1B & Workshop, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 34-36 號豐盛工業中心 B 座地下

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Metallic materials (cont'd)	Proof load test of stainless steel nuts in the force range 5 kN - 2000 kN	BS EN ISO 898-2: 2012 Cl. 9.1 in conjunction with the following specification(s): BS EN ISO 3506-2: 1998 Cl. 5 BS EN ISO 3506-2: 2009 Cl. 6
	Proof load test of unmachined (finished) bolts, screws and studs in the force range 5 kN – 2000 kN	BS 3692: 1967 App. D.6 BS 4395: Part 1: 1969 App. B.5 BS 4395: Part 2: 1969 App. B.5 BS EN ISO 898-1: 1999 Cl. 8.5 BS EN ISO 898-1: 2009 Cl. 9.6 BS EN ISO 898-1: 2013 Cl. 9.6 in conjunction with the following specification(s): BS 3692: 2001 Cl. 11 & 13 BS 3692: 2014 Cl. 14 & 21
	Rebend test of carbon steel bars	BS 4449: 1988 Cl. 10.3 CS2: 1995 Cl. 6.1 & 6.4
	Rebend test of reinforcing bars, wire rods, welded fabrics or cold reduced wires for reinforcement of concrete	BS EN ISO 15630-1: 2002 Cl. 7 CS2: 2012 (Rev. 6) Cl. 6.1 & 6.5 in conjunction with the following specification(s) BS 4449: 2005 + A2: 2009 + A3: 2016 Cl. 7.2.5 BS 4483: 1985 Cl. 12.1 BS 4483: 1998 Cl. 13.1 BS 4483: 2005 + Amd. 1: 2007 Cl. 7.2.5 & 8.1.3.2 BS 4482: 1985 Cl. 12.2 & App. C.5 with modification
	Static tension test, static compression test, cyclic tension & compression tests for mechanical connector systems (Type 2 Splice) for steel reinforcing bars in the force range 10 kN - 2000 kN	ICC Evaluation Service, Inc. AC133 (Approved May 2008, Effective 1 June 2008) Cl. 4.1.2 ICC Evaluation Service, Inc. AC133 (Approved May 2008, Effective 1 June 2008) Cl. 4.1.2 with modification ICC Evaluation Service, Inc. AC133 (Approved Jan 2010, Effective 1 July 2010) Cl. 4.1.2 ICC Evaluation Service, Inc. AC133 (Approved Jan 2010, Effective 1 July 2010) Cl. 4.1.2 with modification in conjunction with the following specification(s): Buildings Department Code of Practice for Structural Use of Concrete (2013) Cl. 3.2.8.4 (b), (c) & (d)

ETS-Testconsult Limited
東業德勤測試顧問有限公司
G/F, 1B & Workshop, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 34-36 號豐盛工業中心 B 座地下

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Metallic materials (cont'd)	Tensile test of carbon steel bars in the force range 5 kN - 2000 kN	BS 4449: 1988 Cl. 10.1 CS2: 1995 Cl. 6.1 & 6.2
	Tensile test for machined bolt, screw and stud in the force range 5 kN – 2000 kN	BS EN ISO 6892-1: 2009 Cl. 10.4 Method B BS EN ISO 6892-1: 2016 Cl. 10.3.3 Method B BS EN ISO 6892-1: 2019 Cl. 10.3.3 Method B in conjunction with the following specification(s): BS 3692: 2001 Cl. 11 & 13 BS 3692: 2014 Cl. 14 & 21 BS EN ISO 898-1: 1999 Cl. 8.1 BS EN ISO 898-1: 2009 Cl. 9.7 BS EN ISO 898-1: 2013 Cl. 9.7
	Tensile test of metallic materials in the force range 5 kN – 2000 kN	BS 18: 1987 in conjunction with the following specification(s): BS 4360: 1986 Cl. 23
	Tensile test of metallic materials in the force range 5 kN – 2000 kN	BS EN 10002-1: 2001 BS EN ISO 6892-1: 2009 Cl. 10.4 Method B BS EN ISO 6892-1: 2016 Cl. 10.3.3 Method B BS EN ISO 6892-1: 2019 Cl. 10.3.3 Method B in conjunction with the following specification(s): BS 4360: 1990 Cl. 23 BS EN 10025-1: 2004 Cl. 7.3.1, 9.2.3.2 & 10.2.1 BS EN 10025-2: 2004 Cl. 10.2 & Table 7 &/or Table 8 BS EN 10025-3: 2004 Cl. 10.2 & Table 5 BS EN 10025-4: 2004 Cl. 10.2 & Table 5 BS EN 10025-5: 2004 Cl. 10.2 & Table 4 BS EN 10025-6: 2004 + A1: 2009 Cl. 10.2, Table 5 BS EN 10164: 2004 Cl. 5.1 & 8.1 BS EN 10164: 2018 Cl. 6 & 9.1 BS EN 10210-1: 2006 Cl. 6.6.1, 9.2.1 & 9.2.2 BS EN 10219-1: 1997 Cl. 6.7.1, 9.2 & 9.2.1 BS EN 10219-1: 2006 Cl. 6.7.1, 9.2.1 & 9.2.2
	Tensile test of non-preloaded structural bolting assemblies in force range 5 kN - 2000 kN	BS EN 15048-2: 2007 BS EN 15048-2: 2016

ETS-Testconsult Limited
東業德勤測試顧問有限公司
G/F, 1B & Workshop, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 34-36 號豐盛工業中心 B 座地下

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Metallic materials (cont'd)	Tensile test & slip/permanent elongation test of mechanical couplers for reinforcing bar in the force range 5 kN – 2000 kN	BS EN ISO 6892-1: 2016 Cl. 10.4 Method B & ISO 15835-2: 2018 Cl. 5.4 excluding Cl. 5.4.4 in conjunction with the following specification(s): BS 8110: Part 1: 1985 Cl. 3.12.8.16.2 BS 8110: Part 1: 1997 Cl. 3.12.8.16.2 Buildings Department Code of Practice for Structural Use of Concrete (2004) Cl. 3.2.8.2 Buildings Department Code of Practice for Structural Use of Concrete (2013) Cl. 3.2.8.3 General Specification for Civil Engineering Works (2006) Vol. 2 Cl. 15.35 General Specification for Civil Engineering Works (2020) Vol. 2 Cl. 15.35
	Tensile test of reinforcing bars, wire rods, welded fabrics or cold reduced wires for reinforcement of concrete in the force range 5 kN - 2000 kN	BS EN 10002-1: 2001 BS EN ISO 6892-1: 2009 10.4 Method B BS EN ISO 6892-1: 2016 10.3.3 Method B BS EN ISO 6892-1: 2019 Cl. 10.3.3 Method B in conjunction with the following specification(s): BS 4449: 2005 + A2: 2009 +A3: 2016 Cl. 7.2.2, 7.2.3, 8.1.3.1 & 9 BS 4483: 1998 Cl. 13.1 BS 4483: 1985 Cl. 12.1 with modification BS 4483: 2005 + Amd. 1: 2007 Cl. 7.2.2, 7.2.3, 8.1.3.1 & 9 BS 4482: 1985 Cl. 12.1 & App. C.3 with modification CS2: 2012 (Rev. 6) Cl. 6.1 & 6.4
	Tensile test of unmachined (finished) bolts, screws and studs in the force range 5 kN – 2000 kN	BS EN ISO 6892-1: 2009 Cl. 10.4 Method B BS EN ISO 6892-1: 2016 Cl. 10.3.3 Method B BS EN ISO 6892-1: 2019 Cl. 10.3.3 Method B in conjunction with the following specification(s): BS 3692: 1967 Cl. 12 BS 3692: 2001 Cl. 11 & 13 BS 3692: 2014 Cl. 14 & 21 BS 4395: Part 1: 1969 Cl. 2.3 BS 4395: Part 2: 1969 Cl. 2.3 BS EN ISO 898-1: 1999 Cl. 8.2 BS EN ISO 898-1: 2009 Cl. 9.2 BS EN ISO 898-1: 2013 Cl. 9.2

ETS-Testconsult Limited
東業德勤測試顧問有限公司
G/F, 1B & Workshop, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 34-36 號豐盛工業中心 B 座地下

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Metallic materials (cont'd)	Vickers hardness test of metallic materials in scale range of HV5, HV10 & HV30	BS 427: 1990 Section 2 BS EN 23878: 1993 BS EN ISO 6507-1: 1998 BS EN ISO 6507-1: 2005 BS EN ISO 6507-1: 2023
	Weld shear force test of steel fabrics for reinforcement of concrete	BS EN ISO 15630-2: 2002 Cl. 7 ISO 10287: 1992 in conjunction with the following specification(s): BS 4483: 1985 Cl. 12.2 BS 4483: 1998 Cl. 13.2 BS 4483: 2005 + Amd. 1: 2007 Cl. 7.2.4
Welds (destructive)	Vickers hardness test on welded joints in scale range of HV5 and HV10	BS EN 1043: Part 1: 1996 BS EN ISO 9015-1: 2011
	Charpy V-notch impact test on welds in metallic materials	BS EN 875: 1995 BS EN ISO 9016: 2012 BS EN ISO 9016: 2022
	Bend test of fusion welded joints on welds in	BS EN 910: 1996
	Bend test on welds in metallic materials	BS EN ISO 5173: 2010 + A1: 2011
	Bend test on welded reinforcement steel	BS EN ISO 17660-1: 2006 Cl. 14.4
	Macroscopic examination on welds in metallic materials	BS EN 1321: 1997
	Macro-etch test on welded reinforcing steel for concrete	BS 7123: 1989 Cl. 12.3.6
	Macroscopic and microscopic examination on welds in metallic materials	BS EN ISO 17639: 2013 BS EN ISO 17639: 2022
	Macro examination on shear stud connector	BS EN ISO 17639: 2022 in conjunction with the following specification(s): BS EN ISO 14555: 2017 Cl. 11.6 & 12.6
	Fillet weld fracture test	BS EN 1320: 1997
	Fracture test on welds in metallic materials	ASME BPVC.IX-2019 Article I QW-181 & 182 BS EN ISO 9017: 2013 BS EN ISO 9017: 2018

ETS-Testconsult Limited
東業德勤測試顧問有限公司
G/F, 1B & Workshop, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 34-36 號豐盛工業中心 B 座地下

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Welds (destructive) (cont'd)	Guided-bend test on welds in metallic materials	ASME BPVC.IX-2019 Article I QW-160
	Macro-examination on welds in metallic materials	ASME BPVC.IX-2019 Article I QW-183 & 184
	Nick-break test	BS 709: 1983 + Amd. 1& 2 Cl. 7
	Transverse tensile test on welds in metallic materials in the force range 5 kN – 2000 kN	BS EN ISO 6892-1: 2019 Cl. 10.3.3 Method B in conjunction with the following specification(s): BS EN 895: 1995 BS EN ISO 4136: 2012 BS EN ISO 4136: 2022
	Tensile test on welded reinforcing steel for concrete in the force range 5 kN – 2000 kN	BS 7123: 1989 Cl. 12.3.5 BS EN ISO 17660-1: 2006 Cl. 14.2
	Tension test on welds in metallic materials in the force range 5 kN – 2000 kN	ASME BPVC.IX-2019 Article I QW-150 BS EN ISO 6892-1: 2019 Cl. 10.3.3 Method B
	Tensile test on arc stud welding in metallic materials in the force range 5 kN – 2000 kN	BS EN ISO 6892-1: 2019 Cl. 10.3.3 Method B in conjunction with the following specification(s): BS EN ISO 14555: 2017 Cl. 11.4 & 12.4
	Longitudinal tensile test of fusion welded joints in the force range 5 kN – 2000 kN	BS EN 876: 1995 BS EN ISO 5178: 2011 BS EN ISO 5178: 2019
	Shear test on welded reinforcing steel for concrete in the force range 5 kN – 2000 kN	BS EN ISO 17660-1: 2006 Cl. 14.3

ETS-Testconsult Limited
東業德勤測試顧問有限公司
DD129 Lot 2176-A Deep Bay Road, Lau Fau Shan, Yuen Long, New Territories, Hong Kong
香港新界元朗流浮山深灣路 129 區 2176-A 地段

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Aggregates	Sampling	BS 812: Part 102: 1984 CS3: 2013 Section 8
	Particle size distribution	BS 812: Section 103: 1985 + Amd. 6003 (Sieve analysis) CS3: 2013 Section 10 + Amd. No. 1/2013
	Flakiness index	BS 812: Section 105.1: 1989 CS3: 2013 Section 11
	Elongation index	BS 812: Section 105.2: 1990 CS3: 2013 Section 12
	Methylene blue value	CS3: 2013 Section 13
	Los Angeles value	CS3: 2013 Section 14
	Aggregate impact value	BS 812: Part 112: 1990 CS3: 2013 Section 15
	Ten per cent fines value	BS 812: Part 111: 1990 CS3: 2013 Section 16
	Particle density and water absorption	CS3: 2013 Section 17 (Gas jar method and Pycnometer method)
	Moisture content	BS 812: Part 109: 1990 (Oven drying method) CS3: 2013 Section 18
	Drying shrinkage	CS3: 2013 Section 20
	Alkali silica reaction potential by ultra-accelerated mortar bar test	CS1: 2010 Section 22 RILEM TC 106-2: 2000
	Aggregate crushing value	BS 812: Section 110: 1990
	Clay, silt and dust content	BS 812: Part 1: 1975 + Amd. 4875 (Decantation method)
	Compacting fraction value of aggregates for granular bed	General Specification for Civil Engineering Works (2006) Vol. 1 App. 5.2 Hong Kong Housing Authority Specification Library (2022) DRA2.T250.9 to DRA2.T280.9
	Relative density and water absorption	BS 812: Part 2: 1975 + Amd. 4615 (Gas jar method and Pycnometer method)

ETS-Testconsult Limited
東業德勤測試顧問有限公司
DD129 Lot 2176-A Deep Bay Road, Lau Fau Shan, Yuen Long, New Territories, Hong Kong
香港新界元朗流浮山深灣路 129 區 2176-A 地段

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Aggregates (cont'd)	Resistance to degradation of small size coarse aggregate by abrasion and impact in the Los Angeles Machine	ASTM C131-03 with modification
	Resistance to degradation of large size coarse aggregate by abrasion and impact in the Los Angeles Machine	ASTM C353-03 with modification
	Shell content	BS 812: Part 106: 1985
Blocks & bricks	Compressive strength of interlocking blocks in the force range 50 kN – 3000 kN	General Specification for Civil Engineering Work (2006) App. 11.1
	Dimension of clay and calcium silicate pavers	BS 6677: Part 1: 1986 App A & C
	Transverse breaking load of clay and calcium silicate pavers	BS 6677: Part 1: 1986 App. D
	Water absorption of masonry units, segmental pavers and flags	AS/NZS 4456: 14: 1997

ETS-Testconsult Limited
東業德勤測試顧問有限公司
DD129 Lot 2176-A Deep Bay Road, Lau Fau Shan, Yuen Long, New Territories, Hong Kong
香港新界元朗流浮山深灣路 129 區 2176-A 地段

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Cement	Compressive strength of broken mortar prism in the force range 2 kN – 250 kN	BS EN 196-1: 1995
	Density	BS EN 196-6: 1992 Annex NC
	Fineness	BS EN 196-6: 1992 Cl. 4
	Flexural strength of mortar prism in the force range 2 kN – 250 kN	BS EN 196-1: 1995
	Setting times	BS EN 196-3: 1995 Cl. 6
	Soundness	BS EN 196-3: 1995 Cl. 7
	Standard consistence	BS EN 193-3: 1995 Cl. 5
Concrete	Sampling fresh concrete on site	BS 1881: Part 101: 1983 CS1: 2010 Section 1
	Slump of fresh concrete	BS 1881: Part 102: 1983 + Amd. 6090 CS1: 2010 Section 2 Part I
	Compacting factor of fresh concrete	CS1: 2010 Section 2 Part II
	Flow table test	BS 1881: Part 105: 1984 + Amd. 6087 CS1: 2010 Section 2 Part IV
	Slump flow test	CS1: 2010 Section 2 Part V
	Stiffening time of fresh concrete	BS 5075: Part 1: 1982 App. C.4 BS EN 13294: 2002 CS1: 2010 Section 3
	Density of compacted fresh concrete	BS 1881: Part 107: 1983 + Amd. 6085 CS1: 2010 Section 5
	Air content of fresh concrete	CS1: 2010 Section 6
	Making test cubes from fresh concrete	BS 1881: Part 108: 1983 + Amd. 6105 CS1: 2010 Section 7
	Making test cylinders from fresh concrete	BS 1881: Part 108: 1983 + Amd. 6103 CS1: 2010 Section 9
	Curing of test specimens	BS 1881: Part 111: 1983 (Tropical zone temperature) CS1: 2010 Section 10

ETS-Testconsult Limited
東業德勤測試顧問有限公司
DD129 Lot 2176-A Deep Bay Road, Lau Fau Shan, Yuen Long, New Territories, Hong Kong
香港新界元朗流浮山深灣路 129 區 2176-A 地段

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Concrete (cont'd)	Mixing and sampling of fresh concrete in the laboratory	CS1: 2010 Section 11
	Compressive strength of concrete cubes in the force range 50 kN - 3000 kN	BS 1881: Part 116: 1983 + Amd. 6097 CS1: 2010 Section 12
	Compressive strength of concrete cores in the force range 50 kN - 3000 kN	BS 1881: Part 120: 1983 CS1: 2010 Section 15
	Density of hardened concrete	BS 1881: Part 114: 1983 +Amd. 6098 Section 6 CS1: 2010 Section 16
	Concrete's ability to resist chloride ion penetration	ASTM C1202-97 ASTM C1202-05 ASTM C1202-07 ASTM C1202-08 ASTM C1202-09 ASTM C1202-10 ASTM C1202-12 AASHTO T277-07 CS1: 2010 Section 19
	Bleeding test	ASTM C232-99 Method A
	Temperature measurement of fresh concrete	BS 5328: Part 4: 1990 Cl. 3.4(b)
	Water absorption	BS 1881: Part 122: 1983

ETS-Testconsult Limited
東業德勤測試顧問有限公司
DD129 Lot 2176-A Deep Bay Road, Lau Fau Shan, Yuen Long, New Territories, Hong Kong
香港新界元朗流浮山深灣路 129 區 2176-A 地段

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Grout	Preparation of trial mix	In-house method TPM/001/G
	Making and curing of grout cubes	In-house method TPM/002/G
	Compressive strength of grout cubes in the force range 50 kN - 3000 kN	In-house method TPM/003/G CS1: 2010 Section 12
	Flow of grout for preplaced-aggregate concrete (Flow cone method)	ASTM C939-87 ASTM C939-94a ASTM C939-97 ASTM C939-02 ASTM C939-10 ASTM C939/C939M-16a
	Bleeding and free expansion	General Specification for Civil Engineering Works (2006) Cl. 17.60 Hong Kong Housing Authority Specification Library (2022) Cl. PIL 1.T320.8v
	Fluidity test by cone method	BS EN 445: 2007 Cl. 4.3.1
	Bleeding and volume change by wick-induced test	BS EN 445: 2007 Cl. 4.5
	Expansion and bleeding of freshly mixed grouts for preplaced–aggregates concrete	ASTM C940-98a (Reapproved 2003)

ETS-Testconsult Limited
東業德勤測試顧問有限公司
DD129 Lot 2176-A Deep Bay Road, Lau Fau Shan, Yuen Long, New Territories, Hong Kong
香港新界元朗流浮山深灣路 129 區 2176-A 地段

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Pulverized fuel ash	Fineness	BS 3892: Part 1: 1997 Annex D
	Initial setting time	BS 3892: Part 1: 1997 Cl. 10 BS EN 196-3: 1995 Cl. 6.1 & 6.2
	Moisture content	BS 3892: Part 1: 1997 Annex C
	Particle density	BS 3892: Part 1: 1997 Cl. 7 BS EN 196-6: 1992 Annex NC
	Soundness	BS 3892: Part 1: 1997 Cl. 11 BS EN 196-3: 1995 Cl. 7
	Strength factor	BS 3892: Part 1: 1997 Annex F
	Water requirement	BS 3892: Part 1: 1997 Annex E
Repair mortar	Trial mix	In-house method TPM/001/M
	Making test cube	In-house method TPM/002/M In-house method TPM/003M
	Compressive strength of test cubes in the force range of 50 kN - 2000 kN	Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance and Building Materials Specification Part D Cl. 2.1.1
	Flow	BS 4551: 1980 Cl. 12

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司

ADDRESS 地址	:	G/F, 6 Ko Shan Road, Hung Hom, Kowloon, Hong Kong 香港九龍紅磡高山道六號地下
ENQUIRY 查詢	:	Mr James LU Zhiliang, Quality Manager 盧智良先生，品管經理
TELEPHONE 電話	:	2365 9123
FAX 傳真	:	2765 8034
E-MAIL 電郵	:	gce@gce.com.hk
WEBSITE ADDRESS 網址	:	www.gce.com.hk
CLIENTELE 服務對象	:	Public 公眾

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司

ADDRESS
地址

Main Laboratory	:	G/F, 6 Ko Shan Road, Hung Hom, Kowloon, Hong Kong 香港九龍紅磡高山道六號地下
Branch Laboratories	:	Shops A & B, G/F & Flat A & B, 1/F, Yan Lee Building, 21-23 San Wai Street and G/F-1/F, 18-20 Pak Kung Street, Hung Hom, Kowloon, Hong Kong 香港九龍紅磡新圍街 21-23 號仁利大廈地下 A 及 B 號鋪及一字樓 A 及 B 室及北拱街 18-20 號地下及一樓 C2, G/F, Flat G, 4/F & Flat E, 7/F, Chin Fat Factory Building, 3 Tsat Po Street, San Po Kong, Kowloon, Hong Kong 香港九龍新蒲崗七寶街三號振發工廠大廈地下 C2, 四樓 G 室及七樓 E 室 No. 4-A3, Lin Tong Mei Village, Sheung Shui, New Territories, Hong Kong 香港新界上水蓮塘尾村 4-A3 號
ACCREDITED TEST CATEGORIES **認可測試類別**	:	Calibration Services 校正服務 Construction Materials 建築材料 Environmental Testing 環境測試

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
G/F, 6 Ko Shan Road, Hung Hom, Kowloon, Hong Kong
香港九龍紅磡高山道六號地下

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Adhesive	Pull-off test of adhesive	In-house method CON-S57 (by coring method) In-house method CON-S58 (by saw cutting method)
	Pull-off test of render	In-house method CON-S59 (by coring method) In-house method CON-S60 (by saw cutting method)
	Pull-off test of tiles	In-house method CON-S52 (by coring method) In-house method CON-S53 (by saw cutting method) Hong Kong Housing Authority Materials Testing Services (2020/2022) for Maintenance & Building Materials Specification Part D Cl. 7.11 with modifications Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance & Building Materials Specification Part D Cl. 7.11 with modifications Hong Kong Housing Authority Specification Library (2018) FIN 5.T150.8 (3) Hong Kong Housing Authority Specification Library (2022) FIN 5.T150.9 (3)
	Pull-off test of repair mortar	Hong Kong Housing Authority Materials Testing Services (2020/2022) for Maintenance & Building Materials Specification Part D C1. 2.1.15 (Method 1) Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance & Building Materials Specification Part D C1. 2.1.15 (Method 1)

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
G/F, 6 Ko Shan Road, Hung Hom, Kowloon, Hong Kong
香港九龍紅磡高山道六號地下

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Blocks and Bricks	Dimensions of precast concrete masonry units	BS 6073: Part 1: 1981 + Amd. 3944 & 4462 App. A
	Compressive strength of precast concrete masonry units	BS 6073: Part 1: 1981 + Amd. 3944 & 4462 App. B
	Compressive strength of clay bricks	BS 3921: 1985 App. D
Concrete	Sampling of fresh concrete on site	CS1: 2010 + Amd. 1/2017 Section 1
	Slump of fresh concrete	CS1: 2010 + Amd. 1/2017 Section 2 Part I
	Compacting factor of fresh concrete	CS1: 2010 Section 2 Part II
	Flow table test	BS EN 12350-5: 2000 + Amd. 11078 BS EN 12350-5: 2009 CS1: 2010 Section 2 Part IV
	Slump flow test	CS1: 2010 Section 2 Part V
	Density of compacted fresh concrete	CS1: 2010 Section 5
	Making test cubes from fresh concrete	CS1: 2010 Section 7
	Making test beams from fresh concrete	CS1: 2010 Section 8
	Making test cylinders from fresh concrete	CS1: 2010 Section 9
	Curing test specimens	CS1: 2010 Section 10
	Compressive strength of concrete cubes in the force range 50 kN - 3000 kN	CS1: 2010 Section 12
	Obtaining core samples	CS1: 2010 Section 15
	Density of hardened concrete	CS1: 2010 Section 16

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
G/F, 6 Ko Shan Road, Hung Hom, Kowloon, Hong Kong
香港九龍紅磡高山道六號地下

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Concrete (cont'd)	Obtaining drilling powder samples	Hong Kong Housing Authority Materials Testing Services (2020/2022) for Maintenance & Building Materials Specification Part D Cl. 6.4 Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance & Building Materials Specification Part D Cl. 6.4 Hong Kong Housing Authority Materials Testing Services (2020/2022) for Construction Materials Specification Part D Cl. 4.5 Hong Kong Housing Authority Materials Testing Services (2022/2024) for Construction Materials Specification Part D Cl. 4.5
	Dry cutting of mini-cores	Hong Kong Housing Authority Materials Testing Services (2020/2022) for Maintenance & Building Materials Specification Part D Cl. 6.2 Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance & Building Materials Specification Part D Cl. 6.2 Hong Kong Housing Authority Materials Testing Services (2020/2022) for Construction Materials Specification Part D Cl. 4.4 Hong Kong Housing Authority Materials Testing Services (2022/2024) for Construction Materials Specification Part D Cl. 4.4
	Temperature measurement of fresh concrete	BS 5328: Part 4: 1990 Cl. 3.4(b) in conjunction with the following specification: BS EN 206: 2013 + A2: 2021 Cl. 5.2.9
	Temperature rise evaluation test	In-house method CON-S21 Mass Transit Railway Corporation Specification D/MTRCL/NW/CIV/M&W/002/A3, Cl. 11.40 (10)
	Heat of hydration monitoring (temperature monitoring of concrete structure)	In-house method CON-S23 Mass Transit Railway Corporation Specification D/MTRCL/NW/CIV/M&W/002/A3, Cl. 11.82 & 11.83
	Setting time monitoring	Hong Kong Housing Authority Materials Testing Services (2020/2022) for Construction Materials Specification Part D Cl. 1.3.9 Hong Kong Housing Authority Materials Testing Services (2022/2024) for Construction Materials Specification Part D Cl. 1.3.9

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
G/F, 6 Ko Shan Road, Hung Hom, Kowloon, Hong Kong
香港九龍紅磡高山道六號地下

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Concrete (cont'd)	Removal of concrete cover to expose reinforcement	In-house method CON-S20 Hong Kong Housing Authority Materials Testing Services (2020/2022) for Maintenance & Building Materials Specification Part D Cl. 4.2.1 Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance & Building Materials Specification Part D Cl. 4.2.1
	Crack survey	Hong Kong Housing Authority Materials Testing Services (2020/2022) for Maintenance & Building Materials Specification Part D Cl. 4.3.14 Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance & Building Materials Specification Part D Cl. 4.3.14

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
G/F, 6 Ko Shan Road, Hung Hom, Kowloon, Hong Kong
香港九龍紅磡高山道六號地下

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Concrete (diagnostic)	Carbonation test	BS EN 14630: 2006 Building Research Establishment IP6/81 Hong Kong Housing Authority Materials Testing Services (2020/2022) for Maintenance & Building Materials Specification Part D Cl. 4.3.1 (Method 1 & Method 2) Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance & Building Materials Specification Part D Cl. 4.3.1 (Method 1 & Method 2)
	Covermeter survey	BS 1881: Part 204: 1988 Hong Kong Housing Authority Materials Testing Services (2020/2022) for Maintenance & Building Materials Specification Part D Cl. 4.3.2 (Method 1 & Method 2) Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance & Building Materials Specification Part D Cl. 4.3.2 (Method 1 & Method 2)
	Half-cell potential measurement	ASTM C876-91 ASTM C876-91 (Reapproved 1999) ASTM C876-09 ASTM C876-15 Hong Kong Housing Authority Materials Testing Services (2020/2022) for Maintenance & Building Materials Specification Part D Cl. 4.3.4 Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance & Building Materials Specification Part D Cl. 4.3.4
	Resistivity measurement	BS 1881: Part 201: 1986 Cl. 2.3 Hong Kong Housing Authority Materials Testing Services (2020/2022) for Maintenance & Building Materials Specification Part D Cl. 4.3.6 Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance & Building Materials Specification Part D Cl. 4.3.6

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
G/F, 6 Ko Shan Road, Hung Hom, Kowloon, Hong Kong
香港九龍紅磡高山道六號地下

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Concrete (diagnostic) (cont'd)	Surface hardness measurement	BS 1881: Part 202: 1986 BS EN 12504-2: 2001 BS EN 12504-2: 2012 BS EN 12504-2: 2021 Hong Kong Housing Authority Materials Testing Services (2020/2022) for Maintenance & Building Materials Specification Part D Cl. 4.1.1 Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance & Building Materials Specification Part D Cl. 4.1.1
	Ultrasonic pulse velocity measurement	BS 1881: Part 203: 1986 (by direct transmission) BS EN 12504-4: 2004 (by direct transmission) Hong Kong Housing Authority Materials Testing Services (2020/2022) for Maintenance & Building Materials Specification Part D Cl. 4.1.2 Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance & Building Materials Specification Part D Cl. 4.1.2
	Infrared thermography for detection of building surface defects	Hong Kong Concrete Institute TM1 Issue 2 (2022)
	Infrared thermography survey on membrane for roof	In-house method CND-S23
	Surface penetration radar survey for determination of concrete cover and distribution of steel reinforcement	Hong Kong Concrete Institute TM2 (2009)

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
G/F, 6 Ko Shan Road, Hung Hom, Kowloon, Hong Kong
香港九龍紅磡高山道六號地下

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Foundation	Borehole video inspection test	Hong Kong Housing Authority Materials Testing Services (2023/2025) for Non-destructive Pile Testing Cl. D8 & D10 Hong Kong Housing Authority Materials Testing Services (2024/2026) for Non-destructive Pile Testing Cl. D8 & D10
	Compression static loading test on pile (SLT)	ASTM D1143M-07 (Reapproved 2013) Cl. 8.1.3 Architectural Services Department General Specification for Building (2012) Section 5.28 Architectural Services Department General Specification for Building (2017) Section 5.29 BS 8004: 1986 Cl. 7.5.5 Buildings Department Code of Practice for Foundations (2004) Cl. 8.4 Buildings Department Code of Practice for Foundations (2017) Cl. 8.4 General Specification for Civil Engineering Works (2006) Vol. 1 App. 8.1 General Specification for Civil Engineering Works (2020) Vol. 1 App. 8.1 Hong Kong Housing Authority Specification Library (2018) PIL1.T610.8 to PIL1.T1110.8 Hong Kong Housing Authority Specification Library (2022) PIL1.T610.9 to PIL1.T1110.9
	Compression static loading test on pile (SLT) using multiple hydraulic jacks and load cells	Buildings Department Code of Practice for Foundations (2017) Cl. 8.4 with modification
	Crosshole sonic logging test (SOLT)	ASTM D6760-02 ASTM D6760-08 ASTM D6760-14 ASTM D6760-16
	Pile dynamic test (PDA)	ASTM D4945-08 ASTM D4945-12 ASTM D4945-17
	Pile integrity test (PIT)	ASTM D5882-07 ASTM D5882-16

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
G/F, 6 Ko Shan Road, Hung Hom, Kowloon, Hong Kong
香港九龍紅磡高山道六號地下

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Foundation (cont'd)	Plate load test (PLT)	BS 1377: Part 9: 1990 Cl. 4.1 (incremental loading) excluding Cl. 4.1.6.1 Buildings Department Code of Practice for Foundations (Oct 2004) Cl. 8.2 excluding 8.2 (e) Buildings Department Code of Practice for Foundations (Apr 2017) Cl. 8.2 (2) excluding (2)(f) to (h) Hong Kong Housing Authority Specification Library (2018) GIN.T190.8 Hong Kong Housing Authority Specification Library (2022) GIN.T190.9
	Single-hole sonic logging test (SOLT)	ASTM D6760-08 ASTM D6760-14 ASTM D6760-16
	Tension static loading test (SLT)	Architectural Services Department, Technical Instruction No. 4/2005: Particular Specification for Tension Piles Buildings Department Code of Practice for Foundations (2017) Cl. 8.10
	Ultrasonic echo sounder test (UEST)	Hong Kong Concrete Institute TM3 Issue 2 (2024)
Foundation (Geotechnical monitoring)	Inclination monitoring	In-house method PIL-P10
	Monitoring ground movement using probe-type inclinometers	ASTM D6230-13
	Verticality check using inclinometer	In-house method PIL-P11
	Vibration monitoring	In-house method PIL-P6
Rock	Unconfined compressive strength of intact rock core specimens	ASTM D7012-07 with modifications (Method C) ASTM D7012-10 with modifications (Method C) ASTM D7012-14 with modifications (Method C)

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
G/F, 6 Ko Shan Road, Hung Hom, Kowloon, Hong Kong
香港九龍紅磡高山道六號地下

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Structural fixings	Tensile proof load test of anchors & dowel bars by incremental loading in the force range 1 kN – 1000 kN	BS 5080: Part 1: 1993 Cl. 6, 7.1.1 & 7.1.3 with modifications
	Tensile proof load test of drill-in anchors used for cantilevered structure/hanger/curtain wall remedial works by incremental loading in the force range 1 kN to 1000 kN	Buildings Department PNAP APP-169 (Oct 2023) App. A
	Tensile proof load test of drilled-in anchors used for works other than cantilevered structure/ hanger/ curtain wall remedial works by incremental loading in the force range 1 kN to 1000 kN	Buildings Department PNAP APP-169 (Oct 2023) App. B
	Tensile proof test for cementitious or polymer based grouted bolts or dowels or reinforcing bars works or/and steel T-bolts with cast-in channels in the force range 1 kN to 1000 kN	Buildings Department PNAP APP-169 (Oct 2023) App. C
	Shear proof load test of anchors & dowel bars by incremental loading in the force range 1 kN – 600 kN	BS 5080: Part 2: 1986 + Amd. 7602 Cl. 7.1, 7.2.1 & 7.2.3 with modifications
	Shear proof load test of drill-in anchors used for cantilevered structure/hanger/curtain wall remedial works by incremental loading in the force range 1 kN to 600 kN	Buildings Department PNAP APP-169 (Oct 2023) App. A
	Shear proof load test of drilled-in anchors used for works other than cantilevered structure/ hanger/ curtain wall remedial works by incremental loading in the force range 1 kN to 600 kN	Buildings Department PNAP APP-169 (Oct 2023) App. B
	Shear proof test for cementitious or polymer based grouted bolts or dowels or reinforcing bars works or/and steel T-bolts with cast-in channels in the force range 1 kN to 600 kN	Buildings Department PNAP APP-169 (Oct 2023) App. C
Tiles	Static coefficient of friction of ceramic tiles by horizontal dynamometer pull-meter method	ASTM C1028-07

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
Flat A & B, 1/F, Yan Lee Building, 21-23 San Wai Street, Hung Hom, Kowloon, Hong Kong
香港九龍紅磡新圍街 21-23 號仁利大廈一字樓 A 及 B 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Welds (non-destructive)	Liquid penetrant test (colour contrast method)	BS 6443: 1984 BS EN 571-1: 1997 BS EN ISO 3452-1: 2013 BS EN ISO 3452-1: 2021 in conjunction with the following specification(s): BS 4870-1: 1981 Table 5 BS 4871-1: 1982 Table 3 BS 5135: 1984 Table 18 & 19 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table14.3b Hong Kong International Airport General Material & Workmanship Specification (GMWS) Issue No. 5a (2019) Vol. 1 – Civil & Structural Works Section 22.6.22
	Magnetic particle test (magnetic flow method colour contrast technique using permanent magnets, A.C. yokes)	BS 6072: 1981 (1986) BS EN 1290: 1998 BS EN ISO 9934-1: 2001 BS EN ISO 9934-1: 2015 BS EN ISO 9934-1: 2016 BS EN ISO 17638: 2009 BS EN ISO 17638: 2016 in conjunction with the following specification(s): BS 4515-1: 2009 Table 9 BS 4870-1: 1981 Table 5 BS 4871-1: 1982 Table 3 BS 5135: 1984 Table 18 & 19 BS 5400-6: 1999 Cl. 5.5.2.4.1 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 BS EN ISO 23278: 2009 BS EN ISO 23278: 2015 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table14.3b Hong Kong International Airport General Material & Workmanship Specification (GMWS) Issue No. 5a (2019) Vol. 1 – Civil & Structural Works Section 22.6.22

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
Flat A & B, 1/F, Yan Lee Building, 21-23 San Wai Street, Hung Hom, Kowloon, Hong Kong
香港九龍紅磡新圍街 21-23 號仁利大廈一字樓 A 及 B 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Welds (non-destructive) (cont'd)	Ultrasonic test (butt welds in plates & pipes, 'T'-joint welds, nozzle welds and node welds)	BS 3923: Part 1: 1986 (Level 1, 2A, 2B & 3) BS EN 1714: 1998 (Level A, B & C) BS EN ISO 17640: 2010 (Level A, B & C) BS EN ISO 17640: 2018 (Level A, B & C) in conjunction with the following specification(s): BS 4870-1: 1981 Table 5 BS 4871-1: 1982 Table 3 BS 5135: 1984 Table 18 & 19 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 BS EN ISO 11666: 2010 BS EN ISO 11666: 2018 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table14.3b Hong Kong International Airport General Material &Workmanship Specification (GMWS) Issue No. 5a (2019) Vol. 1 – Civil & Structural Works Section 22.6.22
	Visual examination	BS 5289: 1976 BS EN 970: 1997 BS EN ISO 17637: 2011 BS EN ISO 17637: 2016 in conjunction with the following specification(s): BS 4515-1: 2009 Table 9 BS 4870-1: 1981 Table 5 BS 4871-1: 1982 Table 3 BS 5135: 1984 Table 18 & 19 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table14.3b Hong Kong International Airport General Material & Workmanship Specification (GMWS) Issue No. 5a (2019) Vol. 1 – Civil & Structural Works Section 22.6.22

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
Flat A & B, 1/F, Yan Lee Building, 21-23 San Wai Street, Hung Hom, Kowloon, Hong Kong
香港九龍紅磡新圍街 21-23 號仁利大廈一字樓 A 及 B 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Welds (non-destructive) (cont'd)	Visual examination and bend test on stud connectors	<Visual examination as follows:> BS 5289: 1976 BS EN 970: 1997 BS EN ISO 17637: 2011 BS EN ISO 17637: 2016 < together with the following bend test method(s):> BS 5400-6: 1999 Cl. 5. 5.4(b) BS EN ISO 14555: 2014 Cl. 11.3 (excluding Torque wrench method) BS EN ISO 14555: 2017 Cl. 11.3 (excluding Torque wrench method) in conjunction with the following specification(s): Buildings Department Code of Practice for the Structural Use of Steel (2005) Cl. 14.3.7.3 Buildings Department Code of Practice for the Structural Use of Steel (2011) Cl. 14.3.7.3

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
Shops A & B, G/F, Yan Lee Building, 21-23 San Wai Street and G/F-1/F, 18-20 Pak Kung Street, Hung Hom, Kowloon, Hong Kong
香港九龍紅磡新圍街 21-23 號仁利大廈地下 A 及 B 號鋪及北拱街 18-20 號地下及一樓

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Blocks and Bricks	Bending strength of precast unreinforced concrete kerbs	BS 7263: Part 3: 2001 Annex E
	Bending strength of precast unreinforced concrete paving flags	BS 7263: Part 1: 2001 Annex E
	Bending strength and breaking load of paving flags	BS EN 1339: 2003 + Corr. 1: 2006 Annex F in conjunction with the following specification: BS EN 1339: 2003 + Corr. 1: 2006 Table 5 & 7 General Specification for Civil Engineering Works (2020) Vol. 1 Cl. 11.84 (3)
	Dimensions of precast concrete flags, kerbs, channels and edgings	BS 7263: Part 1: 1994 Annex A BS 7263: Part 3: 2001 Annex B.1 to B.3
	Dimensions of precast unreinforced concrete paving flags	BS 7263: Part 1: 2001 Annex B.1 to B.3
	Dimensions of concrete paving flags	BS EN 1339: 2003 + Corr. 1: 2006 Annex C.1 to C.3 in conjunction with the following specification: BS EN 1339: 2003 + Corr. 1: 2006 Table 1 & 2 General Specification for Civil Engineering Works (2020) Vol. 1 Cl. 11.86 (4)
	Dimensions of concrete paving blocks	BS EN 1338: 2003 + Corr. 1: 2006 Annex C.1 to C.3 in conjunction with the following specification: BS EN 1338: 2003 + Corr. 1: 2006 Table 1 & 2 General Specification for Civil Engineering Works (2020) Vol. 1 Cl. 11.86 (4)
	Dimensions of paving slabs	BS EN 1341: 2001 Annex A (excluding A.5 & A.6) in conjunction with the following specification: BS EN 1341: 2001 Cl. 4.1.2.1 & 4.1.2.2
	Transverse strength of precast concrete flags, kerbs, channels and edgings	BS 7263: Part 1: 1994 Annex B

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
Shops A & B, G/F, Yan Lee Building, 21-23 San Wai Street and G/F-1/F, 18-20 Pak Kung Street, Hung Hom, Kowloon, Hong Kong
香港九龍紅磡新圍街 21-23 號仁利大廈地下 A 及 B 號鋪及北拱街 18-20 號地下及一樓

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Concrete	Curing of test specimens	CS1: 2010 Section 10
	Compressive strength of concrete cubes in the force range 50 kN – 3000 kN	CS1: 2010 Section 12
	Flexural strength of beams in the force range 2 kN – 50 kN	CS1: 2010 Section 14
	Density of hardened concrete	CS1: 2010 Section 16

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
Shops A & B, G/F, Yan Lee Building, 21-23 San Wai Street and G/F-1/F, 18-20 Pak Kung Street, Hung Hom, Kowloon, Hong Kong
香港九龍紅磡新圍街 21-23 號仁利大廈地下 A 及 B 號鋪及北拱街 18-20 號地下及一樓

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Soil (Phase I)	Moisture content by oven-drying at 45˚C ± 5˚C	GEOSPEC 3: 2001 Test 5.1 GEOSPEC 3: 2017 Test 5.1
	Moisture content by oven-drying at 105˚C ± 5˚C	GEOSPEC 3: 2001 Test 5.2 GEOSPEC 3: 2017 Test 5.2
	Comparative test for the determination of moisture content by oven-drying	GEOSPEC 3: 2001 Test 5.3 GEOSPEC 3: 2017 Test 5.3
	Liquid limit, plastic limit and plasticity index	GEOSPEC 3: 2001 Test 6.1 GEOSPEC 3: 2017 Test 6.1
	Liquidity index	GEOSPEC 3: 2001 Test 6.2 GEOSPEC 3: 2017 Test 6.2
	Particle density by gas jar method	GEOSPEC 3: 2001 Test 7.1 GEOSPEC 3: 2017 Test 7.1
	Particle density by small pyknometer method	GEOSPEC 3: 2001 Test 7.2 GEOSPEC 3: 2017 Test 7.2
	Particle size distribution by wet sieving (with dispersant)	GEOSPEC 3: 2001 Test 8.1 GEOSPEC 3: 2017 Test 8.1
	Particle size distribution by wet sieving (without dispersant)	GEOSPEC 3: 2001 Test 8.2 GEOSPEC 3: 2017 Test 8.2
	Particle size distribution by hydrometer (with dispersant)	GEOSPEC 3: 2001 Test 8.5 GEOSPEC 3: 2017 Test 8.5
	Particle size distribution by hydrometer (without dispersant)	GEOSPEC 3: 2001 Test 8.6 GEOSPEC 3: 2017 Test 8.6
	Construction of a continuous particle size distribution curve from the results of wet sieving and sedimentation tests	GEOSPEC 3: 2001 Test 8.7 GEOSPEC 3: 2017 Test 8.7
	Dry density / moisture content relationship of soils containing particles which are not susceptible to crushing (using a 1000 cc mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.1 GEOSPEC 3: 2017 Test 10.1

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
Shops A & B, G/F, Yan Lee Building, 21-23 San Wai Street and G/F-1/F, 18-20 Pak Kung Street, Hung Hom, Kowloon, Hong Kong
香港九龍紅磡新圍街 21-23 號仁利大廈地下 A 及 B 號鋪及北拱街 18-20 號地下及一樓

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Soil (Phase I) (cont'd)	Dry density / moisture content relationship of soils containing particles which are susceptible to crushing (using a 1000 cc mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.2 GEOSPEC 3: 2017 Test 10.2
	Dry density / moisture content relationship of soils containing particles which are not susceptible to crushing (using CBR mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.3 GEOSPEC 3: 2017 Test 10.3
	Dry density / moisture content relationship of soils containing particles which are susceptible to crushing (using CBR mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.4 GEOSPEC 3: 2017 Test 10.4
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a 1000cc mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.5 GEOSPEC 3: 2017 Test 10.5
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a 1000cc mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.6 GEOSPEC 3: 2017 Test 10.6
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a CBR mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.7 GEOSPEC 3: 2017 Test 10.8
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a CBR mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.8 GEOSPEC 3: 2017 Test 10.8
	In-situ bulk density and in-situ dry density of soils by the sand replacement method suitable for fine- and medium-grained soils (with small pouring cylinder)	GEOSPEC 3: 2001 Test 11.1 GEOSPEC 3: 2017 Test 11.1

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
Shops A & B, G/F, Yan Lee Building, 21-23 San Wai Street and G/F-1/F, 18-20 Pak Kung Street, Hung Hom, Kowloon, Hong Kong
香港九龍紅磡新圍街 21-23 號仁利大廈地下 A 及 B 號鋪及北拱街 18-20 號地下及一樓

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Soil (Phase I) (cont'd)	In-situ bulk density and in-situ dry density of soils by the sand replacement method suitable for fine-, medium-, and coarse-grained soils (with large pouring cylinder)	GEOSPEC 3: 2001 Test 11.2 GEOSPEC 3: 2017 Test 11.2
	In-situ bulk density and in-situ dry density of soils by nuclear densometer method suitable for fine- and medium-grained soils	GEOSPEC 3: 2001 Test 11.3 GEOSPEC 3: 2017 Test 11.3
	Relative compaction of fill material	Buildings Department PNAP 55: 1994 Cl.2 App. A GEOSPEC 3: 2001 Test 11.4 GEOSPEC 3: 2017 Test 11.4
	California Bearing Ratio (CBR)	BS 1377: Part 9: 1990 Cl. 4.3 GEOSPEC 3: 2001 Test 12.1 GEOSPEC 3: 2017 Test 12.1
	Density of soil by linear measurement method	BS 1377: Part 2: 1990 Cl. 7.2
Soil (Phase II)	One-dimensional consolidation test	GEOSPEC 3: 2001 Test 14.1 GEOSPEC 3: 2017 Test 14.1
	Isotropic compression test in a triaxial cell	GEOSPEC 3: 2001 Test 14.2 GEOSPEC 3: 2017 Test 14.2
	Unconsolidated undrained triaxial compression test without pore pressure measurement	GEOSPEC 3: 2001 Test 15.1 GEOSPEC 3: 2017 Test 15.1
	Isotropically consolidated undrained triaxial compression test with pore pressure measurement	GEOSPEC 3: 2001 Test 15.2 GEOSPEC 3: 2017 Test 15.2
	Isotropically consolidated drained triaxial compression test with measurement volume change	GEOSPEC 3: 2001 Test 15.3 GEOSPEC 3: 2017 Test 15.3
	Direct shear test (small shear box apparatus)	GEOSPEC 3: 2001 Test 16.1 GEOSPEC 3: 2017 Test 16.1
	Unconfined compressive strength of cohesive soil by load frame method	BS 1377: Part 7: 1990 Cl. 7

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
Shops A & B, G/F, Yan Lee Building, 21-23 San Wai Street and G/F-1/F, 18-20 Pak Kung Street, Hung Hom, Kowloon, Hong Kong
香港九龍紅磡新圍街 21-23 號仁利大廈地下 A 及 B 號鋪及北拱街 18-20 號地下及一樓

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Soil (other)	GCO probe test	General Specification for Civil Engineering Works (2006) Vol. 1 App. 7.1 General Specification for Civil Engineering Works (2020) Vol. 1 App. 7.1 GEOGUIDE 2: 2017 Section 23 (Dynamic Probing) Hong Kong Housing Authority Specification Library (2018) GIN.T120.8 Hong Kong Housing Authority Specification Library (2022) GIN.T120.9
	Soil nail performance	Architectural Services Department General Specification for Building (2012) Cl. 26.42 Architectural Services Department General Specification for Building (2017) Cl. 26.42
	Pull-out test of soil nails	Architectural Services Department General Specification for Building (2012) Cl. 26.39 Architectural Services Department General Specification for Building (2017) Cl. 26.39 General Specification for Civil Engineering Works (2006) Cl. 7.138 General Specification for Civil Engineering Works (2020) Cl. 7.144 GEOGUIDE 7 (Mar 2008) Cl. 6.3.2 Hong Kong Housing Authority Specification Library (2018) SLO.T320.8 Hong Kong Housing Authority Specification Library (2022) SLO.T320.9 Mass Transit Railway Corporation Specification D/MTRC/NW/CIV/M&W/002/A2 Cl. 22.30

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
Shops A & B, G/F, Yan Lee Building, 21-23 San Wai Street and G/F-1/F, 18-20 Pak Kung Street, Hung Hom, Kowloon, Hong Kong
香港九龍紅磡新圍街 21-23 號仁利大廈地下 A 及 B 號鋪及北拱街 18-20 號地下及一樓

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Soil (other) (cont'd)	Redox potential	BS 1377: Part 3: 1990 Cl. 11
	Resistivity of soil by disc electrodes method	BS 1377: Part 3: 1990 Cl. 10.2
	Resistivity of soil by open container method	BS 1377: Part 3: 1990 Cl. 10.4
	Time domain reflectometry (TDR) test on soil nails	Geotechnical Engineering Office Particular Specification for soil nail TDR test (Sep 2011) Cl. 2 Geotechnical Engineering Office Guidelines on Test Procedure using Time Domain Reflectometry (TDR) to determine the length of installed soil nails (Jul 2007) Hong Kong Housing Authority Specification Library (2018) SLO.T360.8 Hong Kong Housing Authority Specification Library (2022) SLO.T360.9

Geotechnics & Concrete Engineering (Hong Kong) Ltd.

香港土力混凝土工程有限公司

C2, G/F, Flat G, 4/F & Flat E, 7/F, Chin Fat Factory Building, 3 Tsat Po Street, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗七寶街三號振發工廠大厦地下 C2, 四樓 G 室及七樓 E 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Construction materials testing equipment		
- Bleeding cylinder	Verification in accordance with in-house method CAL-26 for the dimensional requirements as specified in: HKHA Specification (2008 edition) Section PIL 1.T320.5 Cl. 2a, HKHA Specification (2012 edition) Section PIL 1.T320.6 Cl. 2a, or HKHA Specification (2022 edition) Section PIL 1.T320.9 Cl. 2a, or General Specification for Civil Engineering Works (2006 Edition) Section 17.60 Cl. 2	
	Internal diameter: 100 mm	0.4 mm
	On-site verification in accordance with in-house method CAL-26 for the dimensional requirements as specified in: HKHA Specification (2008 edition) Section PIL 1.T320.5 Cl. 2a, HKHA Specification (2012 edition) Section PIL 1.T320.6 Cl. 2a, or HKHA Specification (2022 edition) Section PIL 1.T320.9 Cl. 2a, or General Specification for Civil Engineering Works (2006 Edition) Section 17.60 Cl. 2	
	Internal diameter: 100 mm	0.4 mm
- Cement grout flow cone	Verification in accordance with in-house method CAL-186 for the performance as specified in: ASTM C939-97 Cl. 8, ASTM C939-02 Cl. 8, or ASTM C939-10 Cl. 9	
	Time of efflux of water from cone: 8.0 s	0.078 s

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
C2, G/F, Flat G, 4/F & Flat E, 7/F, Chin Fat Factory Building, 3 Tsat Po Street, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗七寶街三號振發工廠大厦地下 C2, 四樓 G 室及七樓 E 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Construction materials testing equipment (cont'd)		
- Compacting bar	Verification in accordance with in-house method CAL-183 for the dimensional and mass requirements as specified in : CS1: 2010 Vol. 1 Cl. A10	
	Dimensions of ramming face: 25 mm x 25 mm	0.06 mm
	Length: 380 mm	0.9 mm
	Mass : 1.8 kg	0.4 g
	On-site verification in accordance with in-house method CAL-183 for the dimensional and mass requirements as specified in : CS1: 2010 Vol. 1 Cl. A10	
	Dimensions of ramming face: 25 mm x 25 mm	0.06 mm
	Length: 380 mm	0.9 mm
	Mass : 1.8 kg	0.4 g

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
C2, G/F, Flat G, 4/F & Flat E, 7/F, Chin Fat Factory Building, 3 Tsat Po Street, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗七寶街三號振發工廠大厦地下 C2, 四樓 G 室及七樓 E 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Construction materials testing equipment (cont'd)		
- Concrete test cube mould	Verification in accordance with in-house method CAL-184 for the dimensional requirements as specified in CS1: 2010 Vol. 1 Cl. A25	
	Dimensions: 100 mm or 150 mm	0.05 mm
	Thickness of base plate: minimum 10 mm	0.05 mm
	Flatness: not more than 0.03 mm or 0.06 mm	0.005 mm
	Perpendicularity: 0.5 mm	0.005 mm
	Parallelism: 1 mm	0.10 mm
	On-site verification in accordance with in-house method CAL-184 for the dimensional requirements as specified in CS1: 2010 Vol. 1 Cl. A25	
	Dimensions: 100 mm or 150 mm	0.05 mm
	Thickness of base plate: minimum 10 mm	0.05 mm
	Flatness: not more than 0.03 mm or 0.06 mm	0.005 mm
	Perpendicularity: 0.5 mm	0.005 mm
	Parallelism: 1 mm	0.10 mm
- Cone for testing the fluidity of grout	Verification in accordance with in-house method CAL-265 for the dimensional requirements (excluding volume requirement) as specified in BS EN 445: 2007 Cl. 4.3.1.2(a)	
	Open end diameter: 152 mm	0.5 mm
	Discharge tube diameter: 10 mm	0.06 mm
	Length of discharge tube: 60 mm	1.4 mm
	Length of conical section: 280 mm	3.0 mm

@ Unless otherwise specified, accredited activities are conducted at the laboratory.
* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
C2, G/F, Flat G, 4/F & Flat E, 7/F, Chin Fat Factory Building, 3 Tsat Po Street, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗七寶街三號振發工廠大厦地下 C2, 四樓 G 室及七樓 E 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Construction materials testing equipment (cont'd)		
- Covermeter	Calibration for depth of cover in accordance with in-house method CAL-196 using a device as specified in BS 1881: Part 204: 1988, Cl. 6.4 (Method C) over the following ranges:	
	20 mm to 90 mm	2 mm
	above 90 mm to 100 mm	3 mm
	above 100 mm to 160 mm	5 mm
- Curing tank	On-site verification in accordance with in-house method CAL-174 for the parameters as listed in CS1: 2010: Vol. 1 App. A28	
	Temperature distribution at a range of (27 ± 3) °C	0.33 K
	Efficiency of circulation	38 s
- Drying oven	On-site calibration in accordance with in-house method CAL-5 for the temperature variation over the following range:	
	30°C to 300°C	0.3 K
	On-site calibration in accordance with in-house method CAL-5 for the evaporation rate over the temperature range of 105°C to 110°C	
	Evaporation rate: 10 g/hr to 50 g/hr	0.1 g/hr
	On-site calibration in accordance with in accordance with in-house method CAL-3 for the temperature of centre point over the following range:	
	30°C to 300°C	0.3 K

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
C2, G/F, Flat G, 4/F & Flat E, 7/F, Chin Fat Factory Building, 3 Tsat Po Street, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗七寶街三號振發工廠大厦地下 C2, 四樓 G 室及七樓 E 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Construction materials testing equipment (cont'd)		
- Flow table for determining the flow of concrete	Verification in accordance with in-house method CAL-94 for the dimensional and mass requirements as specified in : CS1: 2010 Vol. 1 Cl. A15.1, BS EN 12350-5: 2000 Cl. 4.1, or BS EN 12350-5: 2009 Cl. 4.1	
	Dimensions of metal plate: 700 mm x 700 mm	1.0 mm
	Thickness of metal plate: minimum 2 mm	0.25 mm
	Diameter of central circle: 210 mm	0.50 mm
	Fall height: 40 mm	0.90 mm
	Mass: 16 kg	0.07 kg
	Verification in accordance with in-house method CAL-94 for the dimensional and mass requirements as specified in : BS 1881: Part 105: 1984 Cl. 3.1	
	Dimensions of metal plate: 700 mm x 700 mm	1.0 mm
	Thickness of metal plate: minimum 1.5 mm	0.25 mm
	Diameter of central circle: 200 mm	0.50 mm
	Extension of base frame: minimum 120 mm	0.90 mm
	Fall height: 40 mm	0.90 mm
	Mass: 16 kg	0.07 kg

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
C2, G/F, Flat G, 4/F & Flat E, 7/F, Chin Fat Factory Building, 3 Tsat Po Street, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗七寶街三號振發工廠大厦地下 C2, 四樓 G 室及七樓 E 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Construction materials testing equipment (cont'd)		
- Flow table for determining the flow of concrete (cont'd)	On-site verification in accordance with in-house method CAL-94 for the dimensional and mass requirements as specified in : CS1: 2010 Vol. 1 Cl. A15.1, BS EN 12350-5: 2000 Cl. 4.1, or BS EN 12350-5: 2009 Cl. 4.1	
	Dimensions of metal plate: 700 mm x 700 mm	1.0 mm
	Thickness of metal plate: minimum 2 mm	0.25 mm
	Diameter of central circle: 210 mm	0.50 mm
	Fall height: 40 mm	0.90 mm
	Mass: 16 kg	0.07 kg
	On-site verification in accordance with in-house method CAL-94 for the dimensional and mass requirements as specified in : BS 1881: Part 105: 1984 Cl. 3.1	
	Dimensions of metal plate: 700 mm x 700 mm	1.0 mm
	Thickness of metal plate: minimum 1.5 mm	0.25 mm
	Diameter of central circle: 200 mm	0.50 mm
	Extension of base frame: minimum 120 mm	0.90 mm
	Fall height: 40 mm	0.90 mm
	Mass: 16 kg	0.07 kg

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
C2, G/F, Flat G, 4/F & Flat E, 7/F, Chin Fat Factory Building, 3 Tsat Po Street, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗七寶街三號振發工廠大厦地下 C2, 四樓 G 室及七樓 E 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Construction materials testing equipment (cont'd)		
- Measuring jig for flow table test	Verification in accordance with in-house method CAL-244 for the following requirements as specified in CS1: 2010 Vol. 1 Cl. A15.5	
	Dimensions: 50 mm x 50 mm x 100 mm	0.20 mm
- Metal mould for determining the flow of concrete	Verification in accordance with in-house method CAL-94 for the dimensional requirements as specified in : CS1: 2010 Vol. 1 Cl. A15.2, BS 1881: Part 105: 1984 Cl. 3.2, BS EN 12350-5: 2000 Cl. 4.2, or BS EN 12350-5: 2009 Cl. 4.2	
	Internal diameter of base: 200 mm	0.25 mm
	Internal diameter of top: 130 mm	0.25 mm
	Height: 200 mm	0.25 mm
	Thickness of metal: 1.5 mm	0.25 mm
	On-site verification in accordance with in-house method CAL-94 for the dimensional requirements as specified in : CS1: 2010 Vol. 1 Cl. A15.2, BS 1881: Part 105: 1984 Cl. 3.2, BS EN 12350-5: 2000 Cl. 4.2, or BS EN 12350-5: 2009 Cl. 4.2	
	Internal diameter of base: 200 mm	0.25 mm
	Internal diameter of top: 130 mm	0.25 mm
	Height: 200 mm	0.25 mm
	Thickness of metal: 1.5 mm	0.25 mm

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
C2, G/F, Flat G, 4/F & Flat E, 7/F, Chin Fat Factory Building, 3 Tsat Po Street, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗七寶街三號振發工廠大厦地下 C2, 四樓 G 室及七樓 E 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Construction materials testing equipment (cont'd)		
- Rebound hammer	Calibration in accordance with in-house method CAL-220 by determining the rebound value using an anvil which complies with BS EN 12504-2: 2001 Cl. 4.2, BS EN 12504-2: 2012 Cl. 4.2, or BS EN 12504-2: 2021 Cl. 5.2	1 rebound count
	Calibration in accordance with in-house method CAL-220 by determining the friction of rider over the following range:	
	50 g to 80 g	1.5 g
- Slump cone	Verification in accordance with in-house method CAL-181 for the dimensional requirements as specified in : CS1: 2010 Vol. 1 Cl. A5	
	Internal diameter of base: 200 mm	0.25 mm
	Internal diameter of top: 100 mm	0.25 mm
	Height: 300 mm	0.2 mm
	Wall thickness: minimum 1.5 mm	0.15 mm
	On-site verification in accordance with in-house method CAL-181 for the dimensional requirements as specified in : CS1: 2010 Vol. 1 Cl. A5	
	Internal diameter of base: 200 mm	0.25 mm
	Internal diameter of top: 100 mm	0.25 mm
	Height: 300 mm	0.2 mm
	Wall thickness: minimum 1.5 mm	0.15 mm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
C2, G/F, Flat G, 4/F & Flat E, 7/F, Chin Fat Factory Building, 3 Tsat Po Street, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗七寶街三號振發工廠大厦地下 C2, 四樓 G 室及七樓 E 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Construction materials testing equipment (cont'd)		
- Slump flow base plate	Verification in accordance with in-house method CAL-245 for the dimensional requirements as specified in CS1: 2010 Vol. 1 Cl. A16 :	
	Dimensions: minimum 800 mm x 800 mm	1.0 mm
	Thickness: minimum 2 mm	0.3 mm
	Deviation from flatness: not more than 3 mm	0.005 mm
	Diameter of inner inscribed circle: 200 mm	1.0 mm
	Diameter of outer inscribed circle: 500 mm	1.0 mm
- Tamping bar for determining the flow of concrete	Verification in accordance with in-house method CAL-94 for the dimensional requirements as specified in : CS1: 2010 Vol. 1 Cl. A15.3, BS EN 12350-5: 2000 Cl. 4.3, or BS EN 12350-5: 2009 Cl. 4.3	
	Dimensions of square section: 40 mm x 40 mm	0.10 mm
	Length of square section: 200 mm	0.10 mm
	Length of circular handle: 120 mm to 150 mm	0.10 mm
	On-site verification in accordance with in-house method CAL-94 for the dimensional requirements as specified in : CS1: 2010 Vol. 1 Cl. A15.3, BS EN 12350-5: 2000 Cl. 4.3, or BS EN 12350-5: 2009 Cl. 4.3	
	Dimensions of square section: 40 mm x 40 mm	0.10 mm
	Length of square section: 200 mm	0.10 mm
	Length of circular handle: 120 mm to 150 mm	0.10 mm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
C2, G/F, Flat G, 4/F & Flat E, 7/F, Chin Fat Factory Building, 3 Tsat Po Street, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗七寶街三號振發工廠大厦地下 C2, 四樓 G 室及七樓 E 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Construction materials testing equipment (cont'd)		
- Tamping rod	Verification in accordance with in-house method CAL-182 for the dimensional requirements as specified in : CS1: 2010 Vol. 1 Cl. A6	
	Diameter: 16 mm Length: 600 mm	0.06 mm 0.9 mm
	On-site verification in accordance with in-house method CAL-182 for the dimensional requirements as specified in : CS1: 2010 Vol. 1 Cl. A6	
	Diameter: 16 mm Length: 600 mm	0.06 mm 0.9 mm
- Transparent tube for wick-induced test	Verification in accordance with in-house method CAL-264 for the dimensional requirements as specified in : BS EN 445: 2007 Cl. 4.5.2	
	Internal diameter: 60 mm to 80 mm Length: 1 m	0.5 mm 1.4 mm
	On-site verification in accordance with in-house method CAL-264 for the dimensional requirements as specified in : BS EN 445: 2007 Cl. 4.5.2	
	Internal diameter: 60 mm to 80 mm Length: 1 m	0.5 mm 1.4 mm

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
C2, G/F, Flat G, 4/F & Flat E, 7/F, Chin Fat Factory Building, 3 Tsat Po Street, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗七寶街三號振發工廠大厦地下 C2, 四樓 G 室及七樓 E 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Construction materials testing equipment (cont'd)		
- Weld gauge	Calibration for the following parameters in accordance with in-house method CAL-269:	
	Length scale: 0 mm to 60 mm	0.5 mm
	Scale measuring bevel angle: 0° to 60°	2°
	Scale measuring gap width: 2 mm to 5 mm	0.10 mm
	Scale measuring weld width: 0 mm to 40 mm	0.2 mm
	Scale measuring high low, weld cap and leg length: 0 mm to 25 mm	0.7 mm
	Scale measuring undercut depth: 0 mm to 25 mm	0.7 mm
	Scale measuring weld throat: 5 mm to 15mm	0.7 mm
- Wooden tamping bar for determining the flow of concrete	Verification in accordance with in-house method CAL-94 for the dimensional requirements as specified in BS 1881: Part 105: 1984 Cl. 3.3 (AMD 6087)	
	Dimensions of square section: 40 mm	0.10 mm
	Length of square section: 200 mm	0.10 mm
	Length of circular handle: 120 mm to 150 mm	0.10 mm
	On-site verification in accordance with in-house method CAL-94 for the dimensional requirements as specified in BS 1881: Part 105: 1984 Cl. 3.3 (AMD 6087)	
	Dimensions of square section: 40 mm	0.10 mm
	Length of square section: 200 mm	0.10 mm
	Length of circular handle: 120 mm to 150 mm	0.10 mm

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
C2, G/F, Flat G, 4/F & Flat E, 7/F, Chin Fat Factory Building, 3 Tsat Po Street, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗七寶街三號振發工廠大厦地下 C2, 四樓 G 室及七樓 E 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurement		
- Time measurement		
- Stop watch / timer	Calibration for time in accordance with in-house method CAL-281 over the following range:	
	1 s to 3600 s	0.03 s

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
C2, G/F, Flat G, 4/F & Flat E, 7/F, Chin Fat Factory Building, 3 Tsat Po Street, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗七寶街三號振發工廠大厦地下 C2, 四樓 G 室及七樓 E 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related quantities		
- Angle		
- Inclinometer	Calibration for angle in accordance with in-house method CAL-263 over the following range:	
	Vertical: -30° to +30°	0.3°
- Spirit level	Calibration for zero error in accordance with in-house method CAL-288 over the following range:	
	0.5 mm/m to 25 mm/m	2.7 mm/m
	Calibration for sensitivity in accordance with BS 3509: 1962 App. A.2C)(i) over the following range:	
	0.5 mm/m to 25 mm/m	2.7 mm/m

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
C2, G/F, Flat G, 4/F & Flat E, 7/F, Chin Fat Factory Building, 3 Tsat Po Street, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗七寶街三號振發工廠大厦地下 C2, 四樓 G 室及七樓 E 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related quantities (cont'd)		
- Length		
- Calliper	Calibration for length in accordance with BS 887: 1982 (Amd 1) Cl. B.1 and B.2 over the following ranges:	
	External: 0 mm to 450 mm	20 µm
	Internal: 0 mm to 300 mm	20 µm
- Coating thickness gauge	Calibration for thickness in accordance with in-house method CAL-222 over the following ranges:	
	10 µm to 50 µm	0.5 µm
	above 50 µm to 100 µm	2 µm
	above 100 µm to 500 µm	4 µm
	above 500 µm to 1000 µm	6 µm
	above 1000 µm to 1500 µm	9 µm
	above 1500 µm to 2000 µm	10 µm
	above 2000 µm to 2300 µm	13 µm
- Dial gauge	Calibration for length in accordance with BS 907: 1965 Cl. B3 over the following range:	
	0 mm to 50 mm (0.01 mm scale division)	7 µm
	Calibration for length in accordance with AS 2103: 1978 Cl. A5 over the following ranges:	
	0 mm to 12 mm (0.002 mm scale division)	3 µm
	0 mm to 50 mm (0.01 mm scale division)	7 µm
	Calibration for length in accordance with in-house method CAL-224 over the following range:	
	0 mm to 100 mm	10 µm to 20 µm

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
C2, G/F, Flat G, 4/F & Flat E, 7/F, Chin Fat Factory Building, 3 Tsat Po Street, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗七寶街三號振發工廠大厦地下 C2, 四樓 G 室及七樓 E 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related quantities (cont'd)		
- Length (cont'd)		
- Dip meter (water level meter)	Calibration for length in accordance with in-house method CAL-270 over the following ranges:	
	0 m to 5 m	3.0 mm
	above 5 m to 10 m	4.5 mm
	above 10 m to 30 m	7.5 mm
	above 30 m to 50 m	9.5 mm
	above 50 m to 100 m	13.5 mm
- Displacement transducer	Calibration for length in accordance with in-house method CAL-164 using a 25 mm reference micrometer type calibrator over the following range:	
	0 mm to 25 mm	2.0 µm
	Calibration for length in accordance with in-house method CAL-164 using a 50 mm reference micrometer type calibrator over the following range:	
	0 mm to 50 mm	3.0 µm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
C2, G/F, Flat G, 4/F & Flat E, 7/F, Chin Fat Factory Building, 3 Tsat Po Street, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗七寶街三號振發工廠大厦地下 C2, 四樓 G 室及七樓 E 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related quantities (cont'd)		
- Length (cont'd)		
- Displacement transducer (cont'd)	Calibration for length in accordance with GEOSPEC 3: 2001 Cl. A.3.4 using a 25 mm reference micrometer type calibrator over the following range:	
	0 mm to 25 mm	2.0 µm
	Calibration for length in accordance with GEOSPEC 3: 2001 Cl. A.3.4 using a 50 mm reference micrometer type calibrator over the following range:	
	0 mm to 50 mm	3.0 µm
	Calibration for length in accordance with GEOSPEC 3: 2017 Cl. A.3.4 using a 25 mm reference micrometer type calibrator over the following range:	
	0 mm to 25 mm	2.0 µm
	Calibration for length in accordance with GEOSPEC 3: 2017 Cl. A.3.4 using a 50 mm reference micrometer type calibrator over the following range:	
	0 mm to 50 mm	3.0 µm
- Engineers' steel rule	Calibration for length in accordance with in-house method CAL-166 over the following range:	
	0 mm to 1500 mm	0.7 mm

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
C2, G/F, Flat G, 4/F & Flat E, 7/F, Chin Fat Factory Building, 3 Tsat Po Street, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗七寶街三號振發工廠大厦地下 C2, 四樓 G 室及七樓 E 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related quantities (cont'd)		
- Length (cont'd)		
- Extensometer - Grade A for gauge length from 150 mm to 700 mm	On-site calibration for displacement using calibration rig and verification of grade in accordance with BS 3846: 1970 over the following ranges:	
	0.010 mm to 2.5 mm	1 μm
	above 2.5 mm to 10 mm	2 μm
	above 10 mm to 50 mm	4 μm
- Grade B for gauge length from 10 mm to 700 mm	On-site calibration for displacement using calibration rig and verification of grade in accordance with BS 3846: 1970 over the following ranges:	
	0.010 mm to 2.5 mm	1 μm
	above 2.5 mm to 10 mm	2 μm
	above 10 mm to 50 mm	4 μm
- Class 0.5 for gauge length from 6 mm to 700 mm	On-site calibration for displacement using calibration rig and verification of class in accordance with BS EN 10002-4: 1995 over the following ranges:	
	0.010 mm to 2.5 mm	1 μm
	above 2.5 mm to 10 mm	2 μm
	above 10 mm to 50 mm	4 μm
- Class 0.5 for gauge length from 6 mm to 700 mm	On-site calibration for displacement using calibration rig and verification of class in accordance with BS EN ISO 9513: 2002 over the following ranges:	
	0.010 mm to 2.5 mm	1 μm
	above 2.5 mm to 10 mm	2 μm
	above 10 mm to 50 mm	4 μm

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
C2, G/F, Flat G, 4/F & Flat E, 7/F, Chin Fat Factory Building, 3 Tsat Po Street, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗七寶街三號振發工廠大厦地下 C2, 四樓 G 室及七樓 E 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related quantities (cont'd)		
- Length (cont'd)		
- Feeler gauge	Calibration for length in accordance with in-house method CAL-167 over the following range:	
	0.03 mm to 1 mm	3.0 µm
- Linear variable displacement transducer (LVDT) with a resolution of 0.001 mm	Calibration for length in accordance with in-house method CAL-164 using a reference micrometer type calibrator over the following range:	
	0 mm to 25 mm	3 µm to 13 µm
	Calibration for length in accordance with GEOSPEC 3: 2017 Cl. A.3.4 using a reference micrometer type calibrator over the following range:	
	0 mm to 50 mm	3 µm to 13 µm

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
C2, G/F, Flat G, 4/F & Flat E, 7/F, Chin Fat Factory Building, 3 Tsat Po Street, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗七寶街三號振發工廠大厦地下 C2, 四樓 G 室及七樓 E 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related quantities (cont'd)		
- Length (cont'd)		
- Linear variable displacement transducer (LVDT) with a resolution of 0.01 mm	Calibration for length in accordance with in-house method CAL-164 using a reference micrometer type calibrator over the following range:	
	0 mm to 50 mm	13 µm to 22 µm
	Calibration for length in accordance with GEOSPEC 3: 2017 Cl. A.3.4 using a reference micrometer type calibrator over the following range:	
	0 mm to 50 mm	13 µm to 22 µm
- Linear variable displacement transducer (LVDT)	Calibration for length in accordance with in-house method CAL-187 by using reference gauge blocks over the following range:	
	0 mm to 100 mm	16 µm
	Calibration for length in accordance with GEOSPEC 3: 2001 Cl. A.3.4 using a reference gauge blocks over the following range:	
	0 mm to 100 mm	16 µm

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
C2, G/F, Flat G, 4/F & Flat E, 7/F, Chin Fat Factory Building, 3 Tsat Po Street, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗七寶街三號振發工廠大厦地下 C2, 四樓 G 室及七樓 E 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related quantities (cont'd)		
- Length (cont'd)		
- Measuring tape	Calibration for length in accordance with in-house method CAL-221 over the following ranges:	
	0 m to 5 m	2.0 mm
	above 5 m to 10 m	2.7 mm
	above 10 m to 30 m	4.7 mm
	above 30 m to 50 m	6.1 mm
	above 50 to 100 m	8.6 mm
- Plastic foil	Calibration for thickness in accordance with in-house method CAL-223 over the following ranges:	
	10 µm to 100 µm	3 µm
	above 100 µm to 250 µm	4 µm
	above 250 µm to 500 µm	6 µm
	above 500 µm to 1000 µm	11 µm
	above 1000 µm to 1500 µm	16 µm
	above 1500 µm to 2000 µm	20 µm
	above 2000 µm to 2300 µm	24 µm

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
C2, G/F, Flat G, 4/F & Flat E, 7/F, Chin Fat Factory Building, 3 Tsat Po Street, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗七寶街三號振發工廠大厦地下 C2, 四樓 G 室及七樓 E 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities		
- Force		
- Concrete testing machine	On-site calibration for compressive force using true force method and Grade 1.0 load cells and verification for grade in accordance with BS 1610: Part 1: 1985 (AMD 6175), or BS 1610: Part 1: 1992, or over the following ranges:	
	1 kN to 2000 kN	0.6 % of reading
	above 2000 kN to 3000 kN	1.0 % of reading
	On-site calibration for compressive force using true force method and Class 1.0 load cells and verification for class in accordance with in-house method CAL-111 for the requirements as specified in : CS1: 2010 Vol.2 App. D over the following ranges:	
	1 kN to 2000 kN	0.6 % of reading
	above 2000 kN to 3000 kN	1.0 % of reading

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
C2, G/F, Flat G, 4/F & Flat E, 7/F, Chin Fat Factory Building, 3 Tsat Po Street, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗七寶街三號振發工廠大厦地下 C2, 四樓 G 室及七樓 E 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related quantities (cont'd)		
- Force (cont'd)		
- Concrete testing machine (cont'd)	On-site calibration for compressive force using true force method and Class 1.0 load cells and verification for class in accordance with BS EN 12390-4: 2000 Table 1 and Annex B over the following ranges:	
	1 kN to 2000 kN	0.6 % of reading
	above 2000 kN to 3000 kN	1.0 % of reading
	On-site calibration for compressive force using true force method and Class 1 load cells and verification for class in accordance with BS EN ISO 7500-1 : 1999, BS EN ISO 7500-1: 2004, or BS EN 10002-2: 1992 over the following ranges:	
	1 kN to 2000 kN	0.6 % of reading
	above 2000 kN to 3000 kN	1.0 % of reading
	On-site verification for strain ratio by performing strain gauged column and proving test (stability test) in accordance with BS 1881: Part 115: 1986 (AMD 6536), or BS EN 12390-4: 2000 Table 3 and Annex A over the following range of compressive force:	
	200 kN to 2000 kN	0.06 strain ratio
	On-site vertification for strain ratio by performing strain gauged column and proving test (stability test) in accordance with in-house method CAL-113 for the requirements as specified in CS1: 2010 App. D over the following range:	
	200 kN to 2000 kN	0.06 strain ratio

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
C2, G/F, Flat G, 4/F & Flat E, 7/F, Chin Fat Factory Building, 3 Tsat Po Street, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗七寶街三號振發工廠大厦地下 C2, 四樓 G 室及七樓 E 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related quantities (cont'd)		
- Force (cont'd)		
- Force measuring device in compression mode	On-site calibration for compressive force in accordance with in-house method CAL-199 over the following ranges:	
	500 kN to 1000 kN	3.4 % of reading
	above 1000 kN to 2000 kN	2.8 % of reading
	above 2000 kN to 3000 kN	2.5 % of reading
	above 3000 kN to 4000 kN	1.9 % of reading
	above 4000 kN to 5000 kN	1.4 % of reading
	above 5000 kN to 6000 kN	1.1 % of reading
	above 6000 kN to 15000 kN	1.0 % of reading
- Force measuring device in compression mode with hydraulic jack	On-site calibration for compressive force in accordance with in-house method CAL-201 over the following ranges:	
	500 kN to 1000 kN	3.4 % of reading
	above 1000 kN to 2000 kN	2.8 % of reading
	above 2000 kN to 3000 kN	2.5 % of reading
	above 3000 kN to 4000 kN	1.9 % of reading
	above 4000 kN to 5000 kN	1.4 % of reading
	above 5000 kN to 6000 kN	1.1 % of reading
	above 6000 kN to 15000 kN	1.0 % of reading

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
C2, G/F, Flat G, 4/F & Flat E, 7/F, Chin Fat Factory Building, 3 Tsat Po Street, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗七寶街三號振發工廠大厦地下 C2, 四樓 G 室及七樓 E 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities (cont'd)		
- Force (cont'd)		
- Load cell	Calibration of compressive force in accordance with in-house method CAL-200 over the following ranges:	
	0.1 kN to 50 kN	0.12 % of reading
	above 50 kN to 500 kN	0.22 % of reading
	above 500 kN to 1500 kN	0.78 % of reading
	above 1500 kN to 15000 kN	2.33 % of reading
	Calibration of compressive force in accordance with in-house method CAL-168 over the following range:	
	0.1 kN to 50 kN	0.27 % of reading
	Calibration of compressive force in accordance with GEOSPEC 3: 2001 Cl. A.3.1 over the following range:	
	0.1 kN to 50 kN	0.27 % of reading
	Calibration of compressive force in accordance with GEOSPEC 3: 2017 Cl. A.3.1 over the following range:	
	0.1 kN to 50 kN	0.27 % of reading

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
C2, G/F, Flat G, 4/F & Flat E, 7/F, Chin Fat Factory Building, 3 Tsat Po Street, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗七寶街三號振發工廠大厦地下 C2, 四樓 G 室及七樓 E 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities (cont'd)		
- Force (cont'd)		
- Proving ring	Calibration for compressive force in accordance with in-house method CAL-168 over the following range:	
	0.1 kN to 2 kN above 2 kN to 50 kN	0.57 % of reading 0.20 % of reading
	Calibration for compressive force in accordance with GEOSPEC 3: 2001 Cl. A.3.1 over the following range:	
	0.1 kN to 2 kN above 2 kN to 50 kN	0.57 % of reading 0.20 % of reading
	On-site calibration for compressive force in accordance with GEOSPEC 3: 2001 Cl. A.3.1 over the following range:	
	0.1 kN to 2 kN above 2 kN to 50 kN	0.57 % of reading 0.20 % of reading
	Calibration for compressive force in accordance with GEOSPEC 3: 2017 Cl. A.3.1 over the following range:	
	0.1 kN to 2 kN above 2 kN to 50 kN	0.57 % of reading 0.20 % of reading
	On-site calibration for compressive force in accordance with GEOSPEC 3: 2017 Cl. A.3.1 over the following range:	
	0.1 kN to 2 kN above 2 kN to 50 kN	0.57 % of reading 0.20 % of reading

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
C2, G/F, Flat G, 4/F & Flat E, 7/F, Chin Fat Factory Building, 3 Tsat Po Street, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗七寶街三號振發工廠大厦地下 C2, 四樓 G 室及七樓 E 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities (cont'd)		
- Force (cont'd)		
- Pull-out and proof-load tester (Compression)	Calibration for compressive force in accordance with in-house method CAL-169 over the following range:	
	0.1 kN to 50 kN	1.5% of reading
- Pull-out and proof-load tester (Tension)	Calibration for tensile force in accordance with in-house method CAL-287 over the following ranges:	
	0.1 kN to 0.2 kN	1.5% of reading
	above 0.2 kN to 1 kN	1.0% of reading
	above 1 kN to 16 kN	0.5% of reading

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
C2, G/F, Flat G, 4/F & Flat E, 7/F, Chin Fat Factory Building, 3 Tsat Po Street, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗七寶街三號振發工廠大厦地下 C2, 四樓 G 室及七樓 E 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities (cont'd)		
- Force (cont'd)		
- Universal testing machine in compression mode	On-site calibration for compressive force using true force method and Grade 1.0 load cells and verification for grade in accordance with BS 1610: Part 1: 1985 (AMD 6175), or BS 1610: Part 1: 1992, or over the following range:	
	0.1 kN to 3000 kN	0.5% of reading
	On-site calibration for compressive force using true force method and Class 1.0 load cells and verification for class in accordance with in-house method CAL-111 for the requirements as specified in : CS1: 2010 Vol.2 App. D over the following range:	
	0.1 kN to 3000 kN	0.5% of reading
	On-site calibration for compressive force using true force method and Class 1.0 load cells and verification for class in accordance with BS EN 12390-4: 2000 Table 1 and Annex B over the following range:	
	0.1 kN to 3000 kN	0.5% of reading
	On-site calibration for compressive force using true force method and Class 1 load cells and verification for class in accordance with BS EN ISO 7500-1 : 1999, BS EN ISO 7500-1: 2004, or BS EN 10002-2: 1992 over the following range:	
	0.1 kN to 3000 kN	0.5% of reading

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
C2, G/F, Flat G, 4/F & Flat E, 7/F, Chin Fat Factory Building, 3 Tsat Po Street, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗七寶街三號振發工廠大厦地下 C2, 四樓 G 室及七樓 E 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities (Cont'd)		
- Force (cont'd)		
- Universal testing machine in tension mode	On-site calibration for tensile force using true force method and Grade 1.0 load cells and verification for grade in accordance with BS 1610: Part 1: 1985 (AMD 6175) over the following range:	
	0.1 kN to 2000 kN	0.6 % of reading
	On-site calibration for tensile force using true force method and Class 1 load cells and verification for class in accordance with BS EN ISO 7500-1 : 1999, BS EN ISO 7500-1: 2004, or BS EN 10002-2: 1992 over the following range:	
	0.1 kN to 2000 kN	0.6 % of reading

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
C2, G/F, Flat G, 4/F & Flat E, 7/F, Chin Fat Factory Building, 3 Tsat Po Street, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗七寶街三號振發工廠大厦地下 C2, 四樓 G 室及七樓 E 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities (cont'd)		
- Pressure		
- Pressure gauge	Calibration for pressure in accordance with BS 1780: 1985 using oil as pressure medium over the following range:	
	100 kPa to 10000 kPa	1.5 kPa to 15 kPa
	Calibration for pressure in accordance with GEOSPEC 3: 2001 Cl. A.3.2 using water as pressure medium over the following range:	
	20 kPa to 1200 kPa	2 kPa
	On-site calibration for pressure in accordance with GEOSPEC 3: 2001 Cl. A.3.2 using water as pressure medium over the following range:	
	20 kPa to 1200 kPa	2 kPa
	Calibration for pressure in accordance with GEOSPEC 3: 2017 Cl. A.3.2 using water as pressure medium over the following range:	
	20 kPa to 1200 kPa	2 kPa
	On-site calibration for pressure in accordance with GEOSPEC 3: 2017 Cl. A.3.2 using water as pressure medium over the following range:	
	20 kPa to 1200 kPa	2 kPa

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
C2, G/F, Flat G, 4/F & Flat E, 7/F, Chin Fat Factory Building, 3 Tsat Po Street, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗七寶街三號振發工廠大厦地下 C2, 四樓 G 室及七樓 E 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities (cont'd)		
- Pressure		
- Pressure transducer	Calibration for pressure in accordance with GEOSPEC 3: 2001 Cl. A.3.2 using water as pressure medium over the following range:	
	20 kPa to 1000 kPa	0.2 kPa to 0.3 kPa
	On-site calibration for pressure in accordance with GEOSPEC 3: 2001 Cl. A.3.2 using water as pressure medium over the following range:	
	20 kPa to 1000 kPa	0.2 kPa to 0.3 kPa
	Calibration for pressure in accordance with GEOSPEC 3: 2017 Cl. A.3.2 using water as pressure medium over the following range:	
	20 kPa to 1000 kPa	0.2 kPa to 0.3 kPa
	On-site calibration for pressure in accordance with GEOSPEC 3: 2017 Cl. A.3.2 using water as pressure medium over the following range:	
	20 kPa to 1000 kPa	0.2 kPa to 0.3 kPa

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
C2, G/F, Flat G, 4/F & Flat E, 7/F, Chin Fat Factory Building, 3 Tsat Po Street, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗七寶街三號振發工廠大厦地下 C2, 四樓 G 室及七樓 E 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities (cont'd)		
- Mass		
- Electronic balance	Calibration for mass using following OIML Class standard weights (1) E2 weights from 1 mg to 200 g, (2) F1 weights from 1 mg to 20 kg, (3) M1 weights of 10 kg and 20 kg in accordance with in-house method CAL-100 over the following ranges:	
	1 mg to 220 g	0.3 mg
	above 220 g to 300 g	0.3 mg to 0.8 mg
	above 300 g to 1 kg	0.8 mg to 2 mg
	above 1 kg to 10 kg	2 mg to 20 mg
	above 10 kg to 20 kg	20 mg to 70 mg
	above 20 kg to 30 kg	70 mg to 90 mg
	above 30 kg to 60 kg	90 mg to 200 mg
	above 60 kg to 100 kg	200 mg to 10 g
	On-site calibration for mass using following OIML Class standard weights (1) E2 weights from 1 mg to 200 g, (2) F1 weights from 1 mg to 20 kg, (3) M1 weights of 10 kg and 20 kg in accordance with in-house method CAL-100 over the following ranges:	
	1 mg to 220 g	0.3 mg
	above 220 g to 300 g	0.3 mg to 0.8 mg
	above 300 g to 1 kg	0.8 mg to 2 mg
	above 1 kg to 10 kg	2 mg to 20 mg
	above 10 kg to 20 kg	20 mg to 70 mg
	above 20 kg to 30 kg	70 mg to 90 mg
	above 30 kg to 60 kg	90 mg to 200 mg
	above 60 kg to 100 kg	200 mg to 10 g

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
C2, G/F, Flat G, 4/F & Flat E, 7/F, Chin Fat Factory Building, 3 Tsat Po Street, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗七寶街三號振發工廠大厦地下 C2, 四樓 G 室及七樓 E 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities (cont'd)		
- Mass (cont'd)		
- Weight	Calibration for mass in accordance with in-house method CAL-173 by using comparison method over the following ranges:	
	1 g to 200 g	0.2 mg to 2 mg
	above 200 g to 2 kg	2 mg to 20 mg
	above 2 kg to 20 kg	20 mg to 0.2 g
	above 20 kg to 30 kg	0.2 g to 0.6 g

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
C2, G/F, Flat G, 4/F & Flat E, 7/F, Chin Fat Factory Building, 3 Tsat Po Street, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗七寶街三號振發工廠大厦地下 C2, 四樓 G 室及七樓 E 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities (cont'd)		
-Volume		
- Volume change measuring device	Calibration for volume in accordance with GEOSPEC3 : 2001 Cl. A.3.3 over the following range:	
	0 ml to 100 ml	0.2 ml
	On-site calibration for volume in accordance with GEOSPEC3 : 2001 Cl. A.3.3 over the following range:	
	0 ml to 100 ml	0.2 ml
	Calibration for volume in accordance with GEOSPEC3 : 2017 Cl. A.3.3 over the following range:	
	0 ml to 100 ml	0.2 ml
	On-site calibration for volume in accordance with GEOSPEC3 : 2017 Cl. A.3.3 over the following range:	
	0 ml to 100 ml	0.2 ml

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
C2, G/F, Flat G, 4/F & Flat E, 7/F, Chin Fat Factory Building, 3 Tsat Po Street, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗七寶街三號振發工廠大厦地下 C2, 四樓 G 室及七樓 E 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities (cont'd)		
-Volume		
- Volumetric glassware	Calibration for volume in accordance with in-house method CAL-185 using the Tables in BS 1797: 1987 for any temperature corrections over the following range:	
	5 ml to 50 ml	0.02 ml to 0.07 ml
	above 50 ml to 250 ml	0.07 ml to 0.14 ml
	above 250 ml to 500 ml	0.14 ml to 0.2 ml
	above 500 ml to 1000 ml	0.2 ml to 0.3 ml
- Water meter	Calibration for volume in accordance with in-house method CAL-271 for the following volume of water collected:	
	100 litre to 1000 litre	1 % of measured value

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
C2, G/F, Flat G, 4/F & Flat E, 7/F, Chin Fat Factory Building, 3 Tsat Po Street, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗七寶街三號振發工廠大厦地下 C2, 四樓 G 室及七樓 E 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Thermometry		
- Temperature		
- Digital thermometer	Calibration for temperature in accordance with in-house method CAL-161.2 over the following ranges :	
	0°C to 80°C	0.17 K
	above 80°C to 230°C	0.22 K
- Liquid-in-glass thermometer	Calibration for temperature in accordance with in-house method CAL-161.1 over the following ranges:	
	0°C to 80°C	0.24 K
	above 80°C to 200°C	0.27 K
	above 200°C to 230°C	0.30 K
- Temperature recorder / logger with digital printout	Calibration for temperature in accordance with in-house method CAL-161.3 over the following ranges :	
	0°C to 80°C	0.22 K
	above 80°C to 230°C	0.22 K

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
C2, G/F, Flat G, 4/F & Flat E, 7/F, Chin Fat Factory Building, 3 Tsat Po Street, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗七寶街三號振發工廠大厦地下 C2, 四樓 G 室及七樓 E 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Admixtures (Chemical analysis)	Dry material content	BS 5075: Part 1: 1982 App. D1
	Ash content	BS 5075: Part 1: 1982 App. D2
	Chloride content	BS 5075: Part 1: 1982 App. E
	Relative density of liquid admixture	BS 5075: Part 1: 1982 App. D3
	Sodium oxide content (Na_2O)	In-house Method ADM-C5: 2003
	Potassium oxide content (K_2O)	In-house Method ADM-C5: 2003
	Acid-soluble alkali content	In-house Method ADM-C5: 2003
	pH value	In-house Method ADM-C6: 2003

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
C2, G/F, Flat G, 4/F & Flat E, 7/F, Chin Fat Factory Building, 3 Tsat Po Street, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗七寶街三號振發工廠大厦地下 C2, 四樓 G 室及七樓 E 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Aggregates	Aggregate abrasion value	BS 812: Part 113: 1990 + Amd. 6986 & 8770 BS EN 1097-8: 2009 Annex A
	Aggregate crushing value	BS 812: Part 110: 1990
	Aggregate impact value	BS 812: Part 112: 1990 + Amd. 8772 CS3: 2013 Section 15
	Bulk density, voids and bulking	BS 812: Part 2: 1995
	Clay, silt and dust content	BS 812: Part 1: 1975 + Amd. 4875 (Decantation method)
	Compaction fraction value of aggregates for granular bed	General Specification for Civil Engineering Works (2006) Vol. 1 App. 5.2 General Specification for Civil Engineering Works (2020) Vol. 1 App. 5.2 Hong Kong Housing Authority Specification Library (2018) DRA 2.T250.8 to T280.8 Hong Kong Housing Authority Specification Library (2022) DRA 2.T250.9 to T280.9
	Dry shrinkage of aggregate in concrete	BS 812: Part 120: 1989 + Amd. 8773 CS3: 2013 Section 20
	Effect of organic substances by mortar method	CS3: 2013 Section 22
	Elongation index	BS 812: Section 105.2: 1990 CS3: 2013 Section 12
	Flakiness index	BS 812: Section 105.1: 1989 CS3: 2013 Section 11
	Los Angeles value	CS3: 2013 Section 14
	Methylene blue value	CS3: 2013 Section 13
	Moisture content	BS 812: Part 109: 1990 (oven drying method) CS3: 2013 Section 18 (oven drying method)

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
C2, G/F, Flat G, 4/F & Flat E, 7/F, Chin Fat Factory Building, 3 Tsat Po Street, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗七寶街三號振發工廠大厦地下 C2, 四樓 G 室及七樓 E 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Aggregates (cont'd)	Particle densities and water absorption	BS 812: Part 2: 1995 + Amd. 9195 & 10379 CS3: 2013 Section 17
	Particle size distribution	BS 812: Part 103.1: 1985 + Amd. 6003 (sieve analysis) CS3: 2013 Section 10 (sieve analysis)
	Relative density and water absorption	BS 812: Part 2: 1975 + Amd. 4615 (Gas jar method, Pycnometer method and wire basket method)
	Resistance to degradation of small-size coarse aggregate by abrasion and impact in the Los Angeles Machine	ASTM C131-96 ASTM C131-03 ASTM C131-06
	Sampling	BS 812: Part 102: 1989 CS3: 2013 Section 8
	Shell content in coarse aggregates	BS 812: Part 106: 1985
	Soundness	BS 812: Part 121: 1989 excluding App. A BS 6349: Part 1: 1984 App. B CS3: 2013 Section 19
	Ten per cent fines value	BS 812: Part 111: 1990 CS3: 2013 Section 16

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
C2, G/F, Flat G, 4/F & Flat E, 7/F, Chin Fat Factory Building, 3 Tsat Po Street, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗七寶街三號振發工廠大厦地下 C2, 四樓 G 室及七樓 E 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Aggregates (Chemical analysis)	Water soluble chloride ion content	BS 812: Part 4: 1976 CS3: 2013 Section 21.3
	Acid soluble chloride ion content	CS3: 2013 Section 21.4
	Chloride content	BS 812: Part 117: 1988 ***< Excluding the following >*** C1. 4
	Total sulphate content (acid extraction)	BS 812: Part 118: 1988 (gravimetric method only) ***< Excluding the following >*** C1. 4
	Acid-soluble sulphate content	CS3: 2013 Section 21.5
	Total sulphur content	CS3: 2013 Section 21.6
	Acid-soluble material	BS 812: Part 119: 1985 ***< Excluding the following >*** C1. 4
	Soluble silica content and calcium oxide content	HKHA MTS (10/12) for Construction Materials Specification Part D Cl. 1.4.9
	Potential alkali-silica reactivity	ASTMC289-94
	Presence of humus	CS3 : 2013 Section 21.7

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
C2, G/F, Flat G, 4/F & Flat E, 7/F, Chin Fat Factory Building, 3 Tsat Po Street, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗七寶街三號振發工廠大厦地下 C2, 四樓 G 室及七樓 E 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Blocks and Bricks	Compressive strength of interlocking blocks	General Specification for Civil Engineering Works (2006) Vol. 1 App. 11.1 General Specification for Civil Engineering Works (2020) Vol. 1 App. 11.1 Hong Kong Housing Authority Specification Library (2018) EXT 3.T110.8 to T160.8 Hong Kong Housing Authority Specification Library (2022) EXT 3.T110.9 to T160.9
	Compressive strength of paving blocks	Mass Transit Railway Corporation Specification, D/MTRCL/NW/CIV/M&W/002/A3, App. 17.1
	Dimensions of clay and calcium silicate pavers	BS 6677: Part1: 1986 App. C
	Dimensions of clay pavers	BS EN 1344: 2002 + Amd. 14081 Annex B
	Dimensions of clay bricks	BS 3921: 1985 App. A
	Dimensions of precast concrete paving blocks	BS 6717: 2001 Annex B.1 to B.3
	Skid resistance value of clay and calcium silicate pavers	BS 6677: Part1: 1986 App. E
	Slip/Skid resistance value of precast concrete flags, kerbs, channels and edgings	BS 7263: Part 3: 2001 Annex G.2
	Transverse breaking load of clay and calcium silicate pavers	BS 6677: Part1: 1986 App. D
	Transverse breaking load of clay pavers	BS EN 1344: 2002 + Amd. 14081 Annex D
	Unpolished slip/skid resistance value of clay pavers	BS EN 1344: 2002 + Amd. 14081 Annex F
	Water absorption of clay bricks	BS 3921: 1985 App. E
	Water absorption of masonry units, segmental pavers and flags	AS/NZS 4456.14: 1997 AS/NZS 4456.14: 2003
	Water absorption of precast concrete flags, kerbs, channels and edgings	BS 7263: Part 1: 1994 Annex C

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
C2, G/F, Flat G, 4/F & Flat E, 7/F, Chin Fat Factory Building, 3 Tsat Po Street, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗七寶街三號振發工廠大厦地下 C2, 四樓 G 室及七樓 E 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Cement	Compressive strength of mortar cubes in the force range 50 kN – 2000 kN	BS EN 196-1: 1995
	Compressive strength of broken mortar prisms in the force range 2 kN – 250 kN	BS EN 196-1: 1995 BS EN 196-1: 2005
	Flexural strength of mortar prisms in the force range 2 kN – 50 kN	BS EN 196-1: 1995 BS EN 196-1: 2005
	Standard consistence	BS EN 196-3: 1995 BS EN 196-3: 2005 + A1: 2008
	Setting time	BS EN 196-3: 1995 BS EN 196-3: 2005 + A1: 2008
	Soundness	BS EN 196-3: 1995 BS EN 196-3: 2005 + A1: 2008
	Density	BS EN 196-6: 1992 Annex NC BS EN 196-6: 2010 Annex NC
	Fineness	BS EN 196-6: 1992 (by Blaine method) BS EN 196-6: 2010 (by Blaine method)
	Sampling	BS EN 196-7: 1992 BS EN 196-7: 2007

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
C2, G/F, Flat G, 4/F & Flat E, 7/F, Chin Fat Factory Building, 3 Tsat Po Street, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗七寶街三號振發工廠大厦地下 C2, 四樓 G 室及七樓 E 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Cement (Chemical analysis)	Calcium oxide content (CaO)	BS EN 196-2: 1995 Cl. 13.14 (alternative method) BS EN 196-2: 2005 Cl. 13.14 (alternative method) BS EN 196-2: 2013 Cl. 4.5.14 (alternative method)
	Residue insoluble in hydrochloric acid and sodium carbonate	BS EN 196-2: 1995 Cl. 9 BS EN 196-2: 2005 Cl. 9 BS EN 196-2: 2013 Cl. 4.4.3
	Loss-on-ignition (L.O.I.)	BS EN 196-2: 1995 Cl. 7 BS EN 196-2: 2005 Cl. 7 BS EN 196-2: 2013 Cl. 4.4.1
	Chloride content	BS EN 196-21: 1992 Cl. 4 BS EN 196-2: 2005 Cl. 14 BS EN 196-2: 2013 Cl. 4.5.16
	Sulphate content (SO_3)	BS EN 196-2: 1995 Cl. 8 BS EN 196-2: 2005 Cl. 8 BS EN 196-2: 2013 Cl. 4.4.2
	Total silica content (SiO_2)	BS EN 196-2: 1995 Cl. 13.9 BS EN 196-2: 2005 Cl. 13.9 BS EN 196-2: 2013 Cl. 4.5.9
	Pure silica content (SiO_2)	BS EN 196-2: 1995 Cl. 13.5 and Cl. 13.6 BS EN 196-2: 2005 Cl. 13.5 and Cl. 13.6 BS EN 196-2: 2013 Cl. 4.5.6
	Soluble silica content (SiO_2)	BS EN 196-2: 1995 Cl. 13.7 and Cl. 13.8 BS EN 196-2: 2005 Cl. 13.7 and Cl. 13.8 BS EN 196-2: 2013 Cl. 4.5.8
	Alumina content (Al_2O_3)	BS EN 196-2: 1995 Cl. 13.11 BS EN 196-2: 2005 Cl. 13.11 BS EN 196-2: 2013 Cl. 4.5.11
	Iron oxide content (Fe_2O_3)	BS EN 196-2: 1995 Cl. 13.10 BS EN 196-2: 2005 Cl. 13.10 BS EN 196-2: 2013 Cl. 4.5.10
	Magnesia content (MgO)	BS EN 196-2: 1995 Cl. 13.15 (alternative method) BS EN 196-2: 2005 Cl. 13.15 (alternative method) BS EN 196-2: 2013 Cl. 4.5.15 (alternative method)

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
C2, G/F, Flat G, 4/F & Flat E, 7/F, Chin Fat Factory Building, 3 Tsat Po Street, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗七寶街三號振發工廠大厦地下 C2, 四樓 G 室及七樓 E 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Cement (Chemical analysis) (cont'd)	Manganese content (Mn)	BS EN 196-2: 1995 Cl. 12 BS EN 196-2: 2005 Cl. 12 BS EN 196-2: 2013 Cl. 4.4.6
	Manganese content (as MnO)	BS EN 196-2: 1995 Cl. 12 BS EN 196-2: 2005 Cl. 12 BS EN 196-2: 2013 Cl. 4.4.6
	Manganese trioxide content (as Mn_2O_3)	BS EN 196-2: 1995 Cl. 12 BS EN 196-2: 2005 Cl. 12 BS EN 196-2: 2013 Cl. 4.4.6
	Alkali content	BS EN 196-21: 1992 Cl. 7 (reference method) BS EN 196-2: 2005 Cl. 17 (reference method) BS EN 196-2: 2013 Cl. 4.5.19 (reference method)
	Sodium oxide content (Na_2O)	BS EN 196-21: 1992 Cl. 7 (reference method) BS EN 196-2: 2005 Cl. 17 (reference method) BS EN 196-2: 2013 Cl. 4.5.19 (reference method)
	Potassium oxide content (K_2O)	BS EN 196-21: 1992 Cl. 7 (reference method) BS EN 196-2: 2005 Cl. 17 (reference method) BS EN 196-2: 2013 Cl. 4.5.19 (reference method)
	Heat of hydration	BS 4550: Part 3: Section 3.8: 1978 with modification

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
C2, G/F, Flat G, 4/F & Flat E, 7/F, Chin Fat Factory Building, 3 Tsat Po Street, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗七寶街三號振發工廠大厦地下 C2, 四樓 G 室及七樓 E 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Coating	Coating thickness test by gravimetric method	BS 729: 1971 App. A BS EN ISO 1460: 1995 BS EN 10244-2: 2001 BS EN 10244-2: 2009
	Coating thickness test by magnetic method	BS EN ISO 2178: 1995 + Amd. 8482 BS EN ISO 2178: 2016
	Pull-off test of coating	ASTM D4541-02 Test Method A BS EN ISO 4624: 2003 Cl. 9.4.2 BS EN ISO 4624: 2016 Cl. 8.4.2 BS 3900-E10: 2003 Cl. 9.4.2
Concrete	Curing of test specimens	CS1: 2010 Section 10
	Compressive strength of concrete cubes in the force range 50 kN to 3000 kN	CS1: 2010 Section 12
	Compressive strength of concrete cores in the force range 50 kN to 3000 kN	CS1: 2010 + Amd.1/2013 Section 15
	Density of hardened concrete	CS1: 2010 Section 16
	Concrete's ability to resist chloride ion penetration	CS1: 2010 Section 19
	Electrical indication of concrete's ability to resist chloride ion penetration	AASHTO T277-93 AASHTO T277-831 ASTM C1202-94 ASTM C1202-97 ASTM C1202-05 ASTM C1202-07 ASTM C1202-12 ASTM C1202-17

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
C2, G/F, Flat G, 4/F & Flat E, 7/F, Chin Fat Factory Building, 3 Tsat Po Street, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗七寶街三號振發工廠大厦地下 C2, 四樓 G 室及七樓 E 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Concrete (cont'd)	Assessment of the cement, aggregates and water contents of fresh concrete (Pressure filter Sandberg method)	DD 83: 1983 Section 3 with modification
	Alkali silica reaction potential by ultra-accelerated mortar bar test	CS1: 2010 Section 22 RILEM A-TC 106-2: 2000
	Bleeding test	ASTM C232-87 Method A ASTM C232-92 Method A ASTM C232-99 Method A ASTM C232-04 Method A ASTM C232-07 Method A ASTM C232-09 Method A ASTM C232-14 Method A Mass Transit Railway Corporation Specification D/MTRCL/NW/NW/CIV/M&W/002/A3 Cl. 11.40 (6)
	Depth of penetration of water under pressure	CS1: 2010 Section 18
	Flexural toughness and first-crack strength of fibre reinforced concrete (using beam with third point loading)	ASTM C1018-92 ASTM C1018-94b ASTM C1018-97
	Initial surface absorption	BS 1881: Part 208: 1996
	Stiffening time	CS1: 2010 Section 3 BS 5075-1: 1982 + Amd. 4183, 4910 & 11057 App. C.4
	Tensile splitting strength of cylinders in the force range 50 kN to 3000 kN	CS1: 2010 Section 13
	Time of setting of concrete mixtures by penetration resistance	ASTM C403–90 ASTM C403–99 ASTM C403–08 ASTM C403–16
	Water absorption	BS 1881: Part 122: 1983 + Amd. 6108

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
C2, G/F, Flat G, 4/F & Flat E, 7/F, Chin Fat Factory Building, 3 Tsat Po Street, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗七寶街三號振發工廠大厦地下 C2, 四樓 G 室及七樓 E 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Concrete (Chemical analysis)	Preparation of samples	CS 1: 2010 Section 21.4
	Detection of PFA	CS 1: 2010 Section 21.5
	Capillary porosity	CS 1: 2010 Section 21.7.4
	Carbon dioxide content	CS 1: 2010 Section 21.10.4 (manometric method)
	Cement and aggregate content	CS 1: 2010 Section 21.6 (based on CaO content) BS 1881: Part 124: 1988 Cl. 5.4 & 5.9 (based on CaO content)
	Aggregate / cement ratio	BS 1881 Part 124: 1988 Cl. 5.9 (based on CaO content)
	Chloride content	CS 1: 2010 Section 21.10.2 BS 1881: Part 124: 1988 Cl. 10.2 BS EN 14629: 2007 (Method A) excluding Cl. 4.1
	Combined water content	CS 1: 2010 Section 21.7.5.2
	Insoluble residue	CS 1: 2010 Section 21.6.5.2
	Original water content	CS 1: 2010 Section 21.7
	Sulphate content	CS 1: 2010 Section 21.10.3
	Soluble silica content	CS 1: 2010 Section 21.6.5.3
	pH value	In-house Method CON-C10

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
C2, G/F, Flat G, 4/F & Flat E, 7/F, Chin Fat Factory Building, 3 Tsat Po Street, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗七寶街三號振發工廠大厦地下 C2, 四樓 G 室及七樓 E 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Dimension stones	Absorption and bulk specific gravity	ASTM C97-90 (Reapproved 1994) ASTM C97-02 ASTM C97-09 ASTM C97-15
	Compressive strength	ASTM C170-90 (Reapproved 1999) ASTM C170-06 ASTM C170-09 ASTM C170-17
	Flexural strength	ASTM C880-98 ASTM C880-06 ASTM C880-09 ASTM C880-15 BS EN 12372: 1999 BS EN 12372: 2006
	Modulus of rupture	ASTM C99-87 (Reapproved 2000) ASTM C99-08 ASTM C99-15
	Strength of individual stone anchorages	ASTM C1354-96 (Reapproved 2004) excluding Cl. 7.3 ASTM C1354-09 excluding Cl. 7.3 ASTM C1354-15 excluding Cl. 7.3

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
C2, G/F, Flat G, 4/F & Flat E, 7/F, Chin Fat Factory Building, 3 Tsat Po Street, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗七寶街三號振發工廠大厦地下 C2, 四樓 G 室及七樓 E 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Ground granulated blastfurnace slag (GGBS)	Moisture content	BS EN 15167-1: 2006 + Amd. 16763 Annex A
	Density	BS EN 196-6: 2010 Annex NC in conjunction with the following specification: BS EN 15167-1: 2006 + Amd. 16763 Cl. 5.5g
	Fineness	BS EN 196-6: 2010 (by Blaine Method) in conjunction with the following specification: BS EN 15167-1: 2006 + Amd. 16763 Cl. 5.3.1
	Initial setting time	BS EN 196-3: 2005 + A1: 2008 in conjunction with the following specification: BS EN 15167-1: 2006 + Amd. 16763 Cl. 5.3.2.2
	Activity index	BS EN 196-1: 2005 in conjunction with the following specification: BS EN 15167-1: 2006 + Amd. 16763 Cl. 5.3.2.3
	Sampling	BS EN 196-7: 2007 in conjunction with the following specification: BS EN 15167-1: 2006 + Amd. 16763 Cl. 7

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
C2, G/F, Flat G, 4/F & Flat E, 7/F, Chin Fat Factory Building, 3 Tsat Po Street, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗七寶街三號振發工廠大厦地下 C2, 四樓 G 室及七樓 E 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Ground Granulated Blastfurnace Slag (GGBS) (chemical analysis)	Loss-on-ignition (L.O.I.) corrected for oxidation of sulfide	BS EN 15167-1: 2006 (Amd 16763) Cl. 5.2 & BS EN 196-2: 2005 Cl. 7 BS EN 196-2: 2013 Cl. 4.4.1
	Calcium oxide (CaO)	BS EN 196-2: 2005 Cl. 13.12 (reference method) BS EN 196-2: 2013 Cl. 4.5.12 (reference method)
	Magnesium oxide (MgO)	BS EN 15167-1 : 2006 (Amd 16763) Cl. 5.2 & BS EN 196-2: 2005 Cl. 13.13 (reference method) BS EN 196-2: 2013 Cl. 4.5.13 (reference method)
	Chloride content	BS EN 15167-1 : 2006 (Amd 16763) Cl. 5.2 & BS EN 196-2 : 2005 Cl. 14 BS EN 196-2: 2013 Cl. 4.5.16
	Sulphate content (as SO_3)	BS EN 15167-1: 2006 (Amd 16763) Cl. 5.2 & BS EN 196-2 : 2005 Cl. 8 BS EN 196-2: 2013 Cl. 4.4.2
	Sulphide content	BS EN 15167-1 : 2006 (Amd 16763) Cl. 5.2 & BS EN 196-2 : 2005 Cl. 11 BS EN 196-2: 2013 Cl. 4.4.5
	Sodium oxide content	BS EN 196-21: 1992 Cl. 7 (reference method) BS EN 196-2: 2013 Cl. 4.5.19 (reference method)
	Potassium oxide content	BS EN 196-21: 1992 Cl. 7 (reference method) BS EN 196-2: 2013 Cl. 4.5.19 (reference method)
	Total alkali content	BS EN 196-21: 1992 Cl. 7 (reference method) BS EN 196-2: 2013 Cl. 4.5.19 (reference method)

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
C2, G/F, Flat G, 4/F & Flat E, 7/F, Chin Fat Factory Building, 3 Tsat Po Street, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗七寶街三號振發工廠大厦地下 C2, 四樓 G 室及七樓 E 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Grout	Bleeding and free expansion	General Specification for Civil Engineering Works (2006) Vol. 2 Cl. 17.60 Hong Kong Housing Authority Specification Library (2018) PIL 1.T320.8 Hong Kong Housing Authority Specification Library (2022) PIL 1.T320.9
	Bleeding and volume change by wick-induced test	BS EN 445: 2007 Cl. 4.5
	Change in height	ASTM C1090-96 ASTM C1090-93 ASTM C1090-01 (Reapproved 2005) ASTM C1090-10 ASTM C1090-15
	Compressive strength of grout cubes in the force range 50 kN – 2000 kN	CS1: 2010 Section 12 Hong Kong Housing Authority Materials Testing Services (2020/2022) for Maintenance & Building Materials Specification Part D Cl. 2.2.6.1 Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance & Building Materials Specification Part D Cl. 2.2.6.1 Hong Kong Housing Authority Materials Testing Services (2020/2022) for Construction Materials Specification Part D Cl. 2.1 Hong Kong Housing Authority Materials Testing Services (2022/2024) for Construction Materials Specification Part D Cl. 2.1
	Early change in height	ASTM C827-95a (Re-approved 1997) ASTM C827-87 ASTM C827-01a (Reapproved 2005) ASTM C827-10 ASTM C827-16
	Expansion and bleeding of freshly mixed grout	ASTM C940-98a ASTM C940-98a with modifications ASTM C940-10a ASTM C940-10a with modifications ASTM C940-16 ASTM C940-16 with modifications

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
C2, G/F, Flat G, 4/F & Flat E, 7/F, Chin Fat Factory Building, 3 Tsat Po Street, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗七寶街三號振發工廠大厦地下 C2, 四樓 G 室及七樓 E 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Grout (cont'd)	Flow of grout for preplaced-aggregate concrete (Flow cone method)	ASTM C939-87 ASTM C939-94a ASTM C939-97 ASTM C939-02 ASTM C939-10 ASTM C939-16a
	Flow of grout (Flow cone method)	ASTM C939-94a with modifications (on ø19mm discharge tube) ASTM C939-97 with modifications (on ø19mm discharge tube) ASTM C939-02 with modifications (on ø19 mm discharge tube) ASTM C939-10 with modifications (on ø19 mm discharge tube) ASTM C939-16a with modifications (on ø19 mm discharge tube)
	Fluidity test by cone method	BS EN 445: 2007 Cl. 4.3.1
	Making of grout cubes	CS1: 2010 Section 7 with modifications
	Mixing of grout samples	In-house method GRO-P7
	Setting time	ASTM C953-87 (Re-approved 1997) ASTM C953-06 ASTM C953-10 ASTM C953-17

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
C2, G/F, Flat G, 4/F & Flat E, 7/F, Chin Fat Factory Building, 3 Tsat Po Street, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗七寶街三號振發工廠大厦地下 C2, 四樓 G 室及七樓 E 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Metallic materials	Bond property of steel reinforcing bars by surface geometry measurement	BS 4449: 2005 + A2: 2009 Cl. 7.4 CS 2: 2012 (Rev. 6) Cl. 6.1 & 6.7.2
	Mass per metre of steel reinforcing bars	BS EN ISO 15630-1: 2002 Cl. 12 CS 2: 2012 (Rev. 6) Cl. 6.1 & 6.2 in conjunction with the following specifications: BS 4449: 2005 + A2: 2009 Cl. 7.2.2, 7.3 & 9
	Mass per metre square, pitch and dimension of steel fabric for reinforcement of concrete	BS 4483: 1985 Cl. 5 & 9 BS 4483: 1998 Cl. 6 & 10 BS EN ISO 15630-1: 2002 Cl. 12 in conjunction with the following specifications: BS 4483: 2005 Cl. 7.3, 8.1.3.2 & BS 4449: 2005 + A2: 2009 Cl. 7.3
	Rebend test of reinforcing bars, wire rods, welded fabrics or cold reduced wires for reinforcement of concrete	BS EN ISO 15630-1: 2002 Cl. 7 BS EN ISO 15630-1: 2010 Cl. 7 CS 2: 2012 (Rev. 6) Cl. 6.1 & 6.5 in conjunction with the following specifications: BS 4449: 2005 + A2: 2009 Cl. 7.2.5 with modifications BS 4482: 1985 Cl. 1.2 & App. C.5 BS 4482: 2005 + Amd. 1: 2007 Cl. 7.2.4 & 9 BS 4483: 1985 Cl. 12.1 BS 4483: 1998 Cl. 13.1 BS 4483: 2005 + Amd. 1: 2007 Cl. 7.2.5, 8.1.3.2 & 9

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
C2, G/F, Flat G, 4/F & Flat E, 7/F, Chin Fat Factory Building, 3 Tsat Po Street, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗七寶街三號振發工廠大厦地下 C2, 四樓 G 室及七樓 E 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Metallic materials (cont'd)	Tensile test of metallic materials in the force range 2.5 kN – 2400 kN	BS 18: 1987 in conjunction with the following specification(s): BS 4360: 1986 Cl. 23 BS 4486: 1980 + Amd.1: 1988 Cl. 9.1.6 BS EN 10002-1: 1990 BS EN 10002-1: 2001 BS EN ISO 6892-1: 2009 Cl. 10.4 Method B BS EN ISO 6892-1: 2016 Cl. 10.3.3 Method B in conjunction with the following specification(s): BS 4360: 1990 Cl. 23 BS EN 10025: 1993 Cl. 7.4.1 & 8.6.3.2 BS EN 10025-1: 2004 Cl. 7.3.1, 9.2.3.2 & 10.2.1 BS EN 10210-1: 1994 Cl. 6.6.1, 9.2 & 9.2.1 BS EN 10210-1: 2006 Cl. 6.6.1, 9.2.1 & 9.2.2 BS EN 10219-1: 1997 Cl. 6.7.1, 9.2 & 9.2.1 BS EN 10219-1: 2006 Cl. Cl. 6.7.1, 9.2 & 9.2.1
	Tensile test of reinforcing bars, wire rods, welded fabrics or cold reduced wire, for reinforcement of concrete in the force range 2.5 kN - 2400 kN	BS 18 : 1987 in conjunction with the following specification: BS 4483: 1985 BS EN 10002-1: 2001 BS EN ISO 6892-1: 2009 Cl. 10.4 Method B in conjunction with the following specification(s): BS 4449: 2005 + A2: 2009 Cl. 7.2.2, 7.2.3, 8.1.3.1 & 9 BS 4482: 1985 Cl. 12.1 & App. C.3 BS 4482: 2005 + Amd. 1: 2007 Cl. 8.1.3.1 & 9 BS 4483: 1998 Cl. 13.1 BS 4483: 2005 + Amd. 1: 2007 Cl. 7.2.2, 7.2.3, 8.1.3.1 & 9 CS 2: 2012 (Rev. 6) Cl. 6.1 & 6.4

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
C2, G/F, Flat G, 4/F & Flat E, 7/F, Chin Fat Factory Building, 3 Tsat Po Street, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗七寶街三號振發工廠大厦地下 C2, 四樓 G 室及七樓 E 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Metallic materials (cont'd)	Tensile test of carbon steel bars in the force range 2.5 kN – 2400 kN	BS 18 : 1987 in conjunction with the following specification: BS 4449: 1988 Cl. 10.2
	Tensile test of high tensile 7-wire strands in the force range 2.5 kN – 2400 kN	BS 18-2 : 1971 in conjunction with the following specification: BS 5896: 1980 App. A BS EN ISO 6892-1: 2009 Cl. 10.4 Method B in conjunction with the following specification: BS 5896: 2012 Cl. 7.2.2 & BS EN ISO 15630-3: 2010 Cl. 5
	Tensile test of stainless steel bars in the force range 2.5 kN – 2400 kN	BS EN 10002-1: 2001 in conjunction with the following specifications: BS 6744: 2001 + A2: 2009 (excluding cold worked stainless steel bars) BS 6744: 2016 (excluding cold work stainless steel bars)
	Tensile test of fasteners in the force range of 2.5 kN to 2400 kN	BS EN ISO 898-1: 1999 and BS 18: 1987 in conjunction with the following specification(s): BS 3692: 2001 Cl. 13 BS 3692: 2014 Cl. 14 BS 4190: 2001 Cl. 15.2 BS 4190: 2014 Cl. 15.2 BS 4395: Part 1: 1969 App. B.1 & B.5 BS 4395: Part 2: 1969 + Amd. 1842 & 2186 App. B.1 & B.5 BS 4395: Part 3: 1973 App. A.1 & A.5 BS EN ISO 6892-1: 2009 Cl. 10.4 Method B in conjunction with the following specification(s): BS EN 20898-1: 1992 Cl. 8.1, 8.2 & 8.4 BS EN ISO 898-1: 1999 Cl. 8.1, 8.2 & 8.5 BS EN ISO 898-1: 2009 Cl. 9.2 to 9.7 BS EN ISO 898-1: 2013 Cl. 9.2 to 9.7 ISO 898-1: 1988 Cl. 8.1, 8.2 & 8.5

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
C2, G/F, Flat G, 4/F & Flat E, 7/F, Chin Fat Factory Building, 3 Tsat Po Street, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗七寶街三號振發工廠大厦地下 C2, 四樓 G 室及七樓 E 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Metallic materials (cont'd)	Tensile test of stainless steel bolts, screws and studs in the force range 2.5 kN - 2400 kN	BS EN ISO 6892-1: 2009 Cl. 10.4 Method B in conjunction with the following specification: BS 6105: 1981 Cl. 6.2 to 6.4 BS EN ISO 3506-1: 1998 Cl. 6.2.2 to 6.2.4 BS EN ISO 3506-1: 2009 Cl. 6
	Effective cross sectional area and mass per metre of stainless steel bars	BS 6744: 2001 + A2: 2009 (excluding cold worked stainless steel bars) BS 6744: 2016 (excluding cold worked stainless steel bars)
	Bend test of stainless steel bars	BS 6744: 2001 + A2: 2009 (excluding cold worked stainless steel bars) BS 6744: 2016 (excluding cold worked stainless steel bars)
	Surface geometry of stainless steel bars	BS 6744: 2001 + A2: 2009 (excluding cold worked stainless steel bars) BS 6744: 2016 (excluding cold worked stainless steel bars)
	Dimensions of steel washer	BS 4320: 1968 BS 4395: Part 1: 1969 BS 4395: Part 2: 1969 BS 4395: Part 3: 1973

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
C2, G/F, Flat G, 4/F & Flat E, 7/F, Chin Fat Factory Building, 3 Tsat Po Street, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗七寶街三號振發工廠大厦地下 C2, 四樓 G 室及七樓 E 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Metallic materials (cont'd)	Charpy V-notch impact test on weldable structural steel	BS EN 10045-1: 1990 BS EN ISO 148-1: 2010 BS EN ISO 148-1: 2016
	Weld shear force test of steel fabric for reinforcement of concrete	BS EN ISO 15630-2: 2002 Cl. 7 ISO 10287: 1992 in conjunction with the following specification(s): BS 4483: 1985 BS 4483: 1998 BS 4483: 2005 + Amd. 1: 2007 Cl. 7.2.2, 7.2.4 & 9
	Proof load test of steel nuts in the force range 2.5 kN - 2400 kN	BS 3692: 2001 Annex C.1 BS 3692: 2014 Annex C.1 BS 4190: 2001 Annex A.1 BS 4190: 2014 Annex A.1 BS 4395: Part 1: 1969 App. C.1 BS 4395: Part 2: 1969 + Amd. 1842 & 2186 App. C.1 BS 4395: Part 3: 1973 App. C.1 BS 6105: 1981 Cl. 6.6, Table 3 & 4 BS EN 20898-2: 1994 Cl. 5-7 & 8.1 BS EN 20898-6: 1992 Cl. 8.1 BS EN ISO 898-2: 2012 Cl. 9.1 BS EN ISO 898-6: 1996 Cl. 8.1 ISO 898-2: 1992 Cl. 5-7 & 8.1 ISO 898-6: 1988 Cl. 8.1 BS EN 20898-2: 1994 and BS EN ISO 898-6: 1996 in conjunction with the following specification: BS EN ISO 3506-2: 1998 Cl. 5 BS EN ISO 898-2: 2012 Cl. 9.1 in conjunction with the following specification: BS EN ISO 3506-2: 2009 Cl. 6

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
C2, G/F, Flat G, 4/F & Flat E, 7/F, Chin Fat Factory Building, 3 Tsat Po Street, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗七寶街三號振發工廠大厦地下 C2, 四樓 G 室及七樓 E 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Metallic materials (cont'd)	Vickers hardness test in scale range HV5, HV10 and HV30	BS 427: 1990 Section 2 BS EN ISO 6507-1: 1998 BS EN ISO 6507-1: 2005 BS EN 23878: 1993
	Brinell hardness test of metallic materials up to the limit of 560.5 HBW	BS 240: 1986 Section 2 BS EN ISO 6506-1: 1999 BS EN ISO 6506-1: 2005
	Rockwell hardness test in the scale range HRB to HRC	BS 891: 1989 Section 2 BS EN ISO 6508-1: 1999 BS EN ISO 6508-1: 2005 BS EN 10109-1: 1996
	Tensile test & slip/permanent elongation test of mechanical coupler for reinforcing bar in the force range 2.5 kN – 2400 kN	BS EN ISO 6892-1: 2016 Cl. 10.3.3 Method B & ISO 15835-2: 2018 Cl. 5.4 excluding Cl.5.4.4 in conjunction with the following specification(s): BS 8110: Part 1: 1985 Cl. 3.12.8.16.2 BS 8110: Part 1: 1997 Cl. 3.12.8.16.2 Buildings Department Code of Practice for Structural Use of Concrete (2004) Cl. 3.2.8.2 Buildings Department Code of Practice for Structural Use of Concrete (2013) Cl. 3.2.8.3 General Specification for Civil Engineering Works (2006) Vol. 2 Cl. 15.35 General Specification for Civil Engineering Works (2020) Vol. 2 Cl. 15.35 ISO 15835-1: 2018 Cl.5.4.1 Option 2 & 5.4.2
	Static tension test, static compression test, cyclic tension & compression test for mechanical connectors for steel reinforcing bars (Type 2 splices) for steel reinforcing bars in the force range 2.5 kN - 2400 kN	ICC Evaluation Service, Inc. AC133 (Approved May 2008 effective 1 Jun 2008) Cl. 4.1.2 ICC Evaluation Service, Inc. AC133 (Approved May 2008 effective 1 Jun 2008) Cl. 4.1.2 with modifications ICC Evaluation Service, Inc. AC133 (Approved Jan 2010 effective 1 Jul 2010) Cl. 4.1.2 ICC Evaluation Service, Inc. AC133 (Approved Jan 2010 effective 1 Jul 2010) Cl. 4.1.2 with modifications in conjunction with the following specification(s): Buildings Department Code of Practice for Structural Use of Concrete (2013) Cl. 3.2.8.4

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
C2, G/F, Flat G, 4/F & Flat E, 7/F, Chin Fat Factory Building, 3 Tsat Po Street, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗七寶街三號振發工廠大厦地下 C2, 四樓 G 室及七樓 E 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Polymer modified mortar and prebagged materials (Chemical analysis)	Sample treatment	HKHA Standard 002: 1990 (modified) Cl. 6
	Cement content and sand/cement ratio	HKHA Standard 002: 1990 (modified) Cl. 7 (based on CaO content)
	Polymer solids content	HKHA Standard 002: 1990 (modified) Cl. 8
	Carbon dioxide content	HKHA Standard 002: 1990 (modified) Cl. 7.2
Polymer latex (Chemical analysis)	Polymer solids content	HKHA Standard 002: 1990 (modified) Cl. 2
Pulverized fuel ash (PFA)	Fineness	BS 3892: Part 1: 1997 Annex D
	Initial setting time	BS EN 196-3: 1995 BS EN 196-3: 2005 + A1: 2008 in conjunction with the following specification(s): BS 3892: Part 1: 1997 Cl. 10 BS 3892: Part 1: 1997 Cl. 10 with modifications
	Moisture content	BS 3892: Part 1: 1997 Annex C
	Particle density	BS EN 196-6: 1992 Annex NC BS EN 196-6: 2010 Annex NC in conjunction with the following specification(s): BS 3892: Part 1: 1997 Cl. 7
	Soundness	BS EN 196-3: 1995 BS EN 196-3: 2005 + A1: 2008 in conjunction with the following specification(s): BS 3892: Part 1: 1997 Cl. 11 BS 3892: Part 1: 1997 Cl. 11 with modifications
	Strength factor	BS 3892: Part 1: 1997 Annex F BS 3892: Part 1: 1997 Annex F with modifications
	Water requirement	BS 3892: Part 1: 1997 Annex E BS 3892: Part 1: 1997 Annex E with modifications

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
C2, G/F, Flat G, 4/F & Flat E, 7/F, Chin Fat Factory Building, 3 Tsat Po Street, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗七寶街三號振發工廠大厦地下 C2, 四樓 G 室及七樓 E 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Pulverized fuel ash (Chemical analysis)	Sample preparation	BS 4550: Part 1: 1978 Cl. 5.1 BS EN 450-1: 2012 Cl. 5.2.1 (dry sample at 105°C to constant weight) BS EN 196-2: 1995 Cl. 6 BS EN 196-2: 2013 Cl. 4.1.5
	Loss-on-ignition	BS EN 450-1: 2012 Cl. 5.2.2 (using 1hr ignition time) BS EN 196-2: 1995 Cl. 7 (using 1 hr ignition time) BS EN 196-2: 2013 Cl. 4.4.1 (using 1 hr ignition time)
	Calcium oxide content (CaO)	BS EN 450-1: 2012 Cl. 5.2.1 a) - c) BS EN 196-2: 1995 Cl. 13.14 (alternative method) BS EN 196-2: 2013 Cl. 4.5.14 (alternative method)
	Chloride ion content	BS EN 450-1: 2012 Cl. 5.2.3 BS EN 196-21: 1992 Cl. 4 BS EN 196-2: 2013 Cl. 4.5.16
	Magnesium oxide content (MgO)	BS 3892: Part 1: 1982 App. C
	Sulphuric anhydride content (SO_3)	BS EN 450-1: 2012 Cl. 5.2.4 BS EN 196-2: 1995 Cl. 8 BS EN 196-2: 2013 Cl. 4.4.2
	Sodium oxide content (Na_2O)	BS EN 196-2: 2013 Cl. 4.5.19 (reference method)
	Potassium oxide content (K_2O)	BS EN 196-2: 2013 Cl. 4.5.19 (reference method)
	Total alkali content	BS EN 450-1: 2012 Cl. 5.2.9 BS EN 196-21: 1992 Cl. 7 (reference method) BS EN 196-2: 2013 Cl. 4.5.19 (reference method)
Pulverized fuel ash cement (Chemical analysis)	Sample preparation	BS 4550: Part 2: 1970 Cl. 1.2.1
	Loss-on-ignition (L.O.I.)	BS 4550: Part 2: 1970 Cl. 13.2 BS EN 196-2: 2013 Cl. 4.4.1
	Chloride ion content	BS EN 196-2: 2013 Cl. 4.5.16
	Proportion of PFA content	In-house Method FAC-C3
	Magnesium oxide content (MgO)	BS 3892: Part 1: 1982 App. C
	Sodium oxide content (Na_2O)	In-house Method AA05, AA06: 1992

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
C2, G/F, Flat G, 4/F & Flat E, 7/F, Chin Fat Factory Building, 3 Tsat Po Street, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗七寶街三號振發工廠大厦地下 C2, 四樓 G 室及七樓 E 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Pulverized fuel ash cement (Chemical analysis) (cont'd)	Potassium oxide content (K_2O)	In-house Method AA05, AA06: 1992
	Alkali content (equivalent Na_2O)	In-house Method AA05, AA06: 1992 (Flame AA)
	Sulphur trioxide content (SO_3)	BS 4550: Part 2: 1970 Cl. 12 BS EN 196-2: 2013 Cl. 4.4.2

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司

C2, G/F, Flat G, 4/F & Flat E, 7/F, Chin Fat Factory Building, 3 Tsat Po Street, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗七寶街三號振發工廠大廈地下 C2, 四樓 G 室及七樓 E 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Repair mortar	Air permeability	Hong Kong Housing Authority Specification Library (2018) CON 2.T120.8 Cl. 2 Hong Kong Housing Authority Specification Library (2022) CON 2.T120.9 Cl. 2
	Compressive strength of test cubes in the force range 50 kN – 3000 kN	BS 4551: 1980 + Amd. 4374 Section 15 BS 4551: Part 1: 1998 Section 12 Hong Kong Housing Authority Materials Testing Services (2020/2022) for Maintenance & Building Materials Specification Part D Cl. 2.1.1 Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance & Building Materials Specification Part D Cl. 2.1.1
	Consistence	BS 4551: 1980 + Amd. 4374 Section 10 BS 4551: Part 1: 1998 Section 7 In-house method MOR-P2
	Coutinho Ring test (shrinkage cracking)	Hong Kong Housing Authority Materials Testing Services (2020/2022) for Maintenance & Building Materials Specification Part D Cl. 2.1.6 Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance & Building Materials Specification Part D C1.2.1.6
	Flow	BS 4551: 1980 + Amd. 4374 Section 12 BS 4551: Part 1: 1998 Section 9 In-house method MOR-P3
	Long term shrinkage	In-house method MOR-P6
	Sorptivity	Hong Kong Housing Authority Materials Testing Services (2020/2022) for Maintenance & Building Materials Specification Part D Cl. 2.1.10 Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance & Building Materials Specification Part D C1. 2.1.10
	Trial mix	Hong Kong Housing Authority Materials Testing Services (2020/2022) for Maintenance & Building Materials Specification Part D Cl. 2.1.20 Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance & Building Materials Specification Part D C1. 2.1.20

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
C2, G/F, Flat G, 4/F & Flat E, 7/F, Chin Fat Factory Building, 3 Tsat Po Street, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗七寶街三號振發工廠大厦地下 C2, 四樓 G 室及七樓 E 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Repair mortar (cont'd)	Obtaining inspection core samples	Hong Kong Housing Authority Materials Testing Services (2020/2022) for Maintenance & Building Materials Specification Part D Cl. 2.1.22 Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance & Building Materials Specification Part D C1. 2.1.22
Road surfaces	Texture depth of carriageways (by sand patch test method)	General Specification for Civil Engineering Works (2006) Vol. 1 App. 10.1 General Specification for Civil Engineering Works (2020) Vol. 1 App. 10.1 Highways Department (Research and Development Division) Guidance Notes on Road Testing (RD/GN/009) (Sep 1989) Hong Kong Housing Authority Specification Library (2018) EXT 1. T710.8 (5) to 720.8 EXT 2.T910.8 to T1010.8 Hong Kong Housing Authority Specification Library (2022) EXT 1. T710.9 (5) to 720.9 EXT 2.T910.9 to T1010.9 Mass Transit Railway Corporation Specification, D/MTRCL/NW/CIV/M&W/002/A3, App. 16.1
	Surface regularity of carriageways (by 3 metre straightedge method)	General Specification for Civil Engineering Works (2006) Vol. 1 Cl. 10.55 General Specification for Civil Engineering Works (2020) Vol. 1 Cl. 10.55 Hong Kong Housing Authority Specification Library (2018) EXT 2.T810.8 to T850.8 Hong Kong Housing Authority Specification Library (2022) EXT 2.T810.9 to T850.9
	Skid resistance of road surfaces/markings using a portable pendulum tester	Highways Department (Research and Development Division) Guidance Notes on Road Testing (RD/GN/009) (Sep 1989)
	Slip resistance of pedestrian surface using a pendulum tester	BS 7976: Part 2: 2002 + A1: 2013

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
C2, G/F, Flat G, 4/F & Flat E, 7/F, Chin Fat Factory Building, 3 Tsat Po Street, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗七寶街三號振發工廠大厦地下 C2, 四樓 G 室及七樓 E 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Rock	Preparation of rock core specimens and determination of dimensional and shape tolerances	ASTM D4543-85 (Re-approved 1991) ASTM D4543-01 ASTM D4543-04 ASTM D4543-08
	Unconfined compressive strength of intact rock core specimens	ASTM D2938-86 with modifications ASTM D2938-95 with modifications
	Point load strength index of rock by diametral, axial and irregular lump tests	ASTM D5731-95 ASTM D5731-02 ASTM D5731-05 ASTM D5731-08 ASTM D5731-16 International Society for Rock Mechanics (1985) Suggested method for determining point load strength
	Water content of rock	ASTM D2216-98 ASTM D2216-05 ASTM D2216-10 International Society for Rock Mechanics (1979) Part 1 Method 1: Suggested method for determination of water content of a rock sample
	Porosity and density using saturation and caliper techniques	International Society for Rock Mechanics (1979) Part 1 Method 2: Suggested method for porosity/density determination using saturation and caliper techniques
	Porosity and density using saturation and buoyancy techniques	International Society for Rock Mechanics (1979) Part 1 Method 3: Suggested method for porosity/density determination using saturation and buoyancy techniques
	Proof load test of rock dowels and bolts	In-house method RDB-S3 Mass Transit Railway Corporation Specification D/MTRCL/NW/CIV/M&W/003/A3 Cl. 22.20
	Proof load test of expandable rock bolts	Mass Transit Railway Corporation Specification D/MTRCL/NW/CIV/M&W/003/A3 Cl. 22.20

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
C2, G/F, Flat G, 4/F & Flat E, 7/F, Chin Fat Factory Building, 3 Tsat Po Street, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗七寶街三號振發工廠大厦地下 C2, 四樓 G 室及七樓 E 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Soil (Chemical analysis)	Total sulphate content (as SO_3)	GEOSPEC 3: 2001 Test 9.3 GEOSPEC 3: 2017 Test 9.3 BS 1377: Part 3: 1990 Cl. 5 ***< Excluding the following >*** C1. 5.6
	Water-soluble sulphate content (as SO_3)	GEOSPEC 3: 2001 Test 9.3 GEOSPEC 3: 2017 Test 9.3 BS 1377: Part 3: 1990 Cl. 5 ***< Excluding the following >*** C1. 5.6
	Acid-soluble chloride content	BS 1377: Part 3: 1990 Cl. 7.3
	Water-soluble chloride content	GEOSPEC 3: 2001 Test 9.4 GEOSPEC 3: 2017 Test 9.4 BS 1377: Part 3: 1990 Cl. 7.2
	Organic matter content	GEOSPEC 3: 2001 Test 9.1 GEOSPEC 3: 2017 Test 9.1 BS 1377: Part 3: 1990 Cl. 3
	Loss-on-ignition	GEOSPEC 3: 2001 Test 9.2 GEOSPEC 3: 2017 Test 9.2 BS 1377: Part 3: 1990 Cl. 4
	Carbonate content (as CO_2)	BS 1377: Part 3: 1990 Cl. 6.3
	pH value	GEOSPEC 3: 2001 Test 9.5 GEOSPEC 3: 2017 Test 9.5 BS 1377: Part 3: 1990 Cl. 9
Structural fixings (spiders)	Proof load test of spiders in the force range 1 kN – 50 kN	Buildings Department Code of Practice for the Structural Use of Steel (2005) Cl. 16.2.1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Cl. 16.2.1

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
C2, G/F, Flat G, 4/F & Flat E, 7/F, Chin Fat Factory Building, 3 Tsat Po Street, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗七寶街三號振發工廠大厦地下 C2, 四樓 G 室及七樓 E 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Carbon steel (Chemical analysis)	Carbon content	In-house Method CAR-C7 (Carbon and sulphur analyzer)
	Sulphur content	In-house Method CAR-C8 (Carbon and sulphur analyzer)
	Chromium content	In-house Method CAR-C1 (ICP – OES)
	Manganese content	In-house Method CAR-C2 (ICP – OES)
	Molybdenum content	In-house Method CAR-C3 (ICP – OES)
	Nickel content	In-house Method CAR-C4 (ICP – OES)
	Silicon content	In-house Method CAR-C5 (ICP – OES)
	Phosphorus content	In-house Method CAR-C6 (Photometric method)
	Copper content	In-house method CAR-C9 (ICP – OES)
	Vanadium content	In-house method CAR-C10 (ICP – OES)
	Niobium content	In-house method CAR-C11 (ICP – OES)
	Aluminium content	In-house method CAR-C12 (ICP – OES)
	Titanium content	In-house method CAR-C13 (ICP – OES)
Carbon steel (Chemical analysis)	Aluminium, Carbon, Chromium, Copper, Manganese, Molybdenum, Nickel, Nitrogen, Phosphorus, Silicon, Sulphur, Vanadium	In-house Method STE-C8 (Spark-OES)
Low alloy steel (Chemical analysis)	Aluminium, Carbon, Chromium, Copper, Manganese, Molybdenum, Nickel, Nitrogen, Phosphorus, Silicon, Sulphur, Vanadium	In-house Method STE-C8 (Spark-OES)
Carbon steel and low alloy steel	Carbon equivalent value (CEV)	In-house Method STE-C8 (by calculation)

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
C2, G/F, Flat G, 4/F & Flat E, 7/F, Chin Fat Factory Building, 3 Tsat Po Street, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗七寶街三號振發工廠大厦地下 C2, 四樓 G 室及七樓 E 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Stainless steel (Chemical analysis)	Chromium content	In-house Method STA-C1 (ICP – OES)
	Manganese content	In-house Method STA-C2 (ICP – OES)
	Molybdenum content	In-house Method STA-C3 (ICP – OES)
	Nickel content	In-house Method STA-C4 (ICP – OES)
	Silicon content	In-house Method STA-C5 (ICP – OES)
	Phosphorus content	In-house Method STA-C6 (Photometric method)
	Carbon content	In-house Method STA-C7 (Carbon and sulphur analyzer)
	Sulphur content	In-house Method STA-C8 (Carbon and sulphur analyzer)
	Copper content	In-house Method STA-C9 (ICP – OES)
Unalloyed and low alloy steel (Chemical analysis)	Chromium, Copper, Manganese, Molybdenum, Nickel, Vanadium	BS EN 10351: 2011
Steel (Chemical analysis)	Total carbon content	BS EN ISO 15350: 2010 (Method A) ISO 15350: 2000 (Method A)
	Sulfur content	BS EN ISO 15350: 2010 (Method A) ISO 15350: 2000 (Method A)
	Nitrogen content	BS EN ISO 15351: 2010 ISO 15351: 1999
	Phosphorous content	ASTM E350-95 (Reapproved 1997) Cl. 18-29
	Carbon equivalent value (CEV)	CS2: 2012 Cl. 1.5.1 (by calculation)

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
C2, G/F, Flat G, 4/F & Flat E, 7/F, Chin Fat Factory Building, 3 Tsat Po Street, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗七寶街三號振發工廠大厦地下 C2, 四樓 G 室及七樓 E 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
		CS2: 2012 Cl. 1.5.1 in conjunction with SCCT Technical Note No. 3
Steel reinforcing bar (Product analysis grade 250, 500B & 500C) (chemical analysis)	Total carbon	*Test procedure for compliance testing:* BS EN ISO 15350: 2010 (Method A) ISO 15350: 2000 (Method A) In-house Method CAR-C7 (Carbon and sulphur analyzer)
	Sulphur	*Test procedure for compliance testing:* BS EN ISO 15350: 2010 (Method A) ISO 15350: 2000 (Method A) In-house Method CAR-C8 (Carbon and sulphur analyzer)
	Nitrogen	*Test procedure for compliance testing:* BS EN ISO 15351: 2010 ISO 15351: 1999
	Nitrogen binding element (Vanadium)	*Test procedure for compliance testing:* In-house Method CAR-C10 (ICP-OES) BS EN 10351: 2011 (ICP-OES)
	Phosphorus	*Test procedure for compliance testing:* In-house Method CAR-C6 (Photometric method) ASTM E350-95 (Reapproved 1997) Cl. 18-29 (Photometric method)
	Copper	*Test procedure for compliance testing:* In-house Method CAR-C9 (ICP-OES) BS EN 10351: 2011 (ICP-OES)
	Carbon Equivalent Value (CEV)	*Test procedure for compliance testing:* CS2: 2012 Cl. 1.5.1 (by calculation)

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
C2, G/F, Flat G, 4/F & Flat E, 7/F, Chin Fat Factory Building, 3 Tsat Po Street, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗七寶街三號振發工廠大厦地下 C2, 四樓 G 室及七樓 E 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Ground water (Chemical analysis)	Sulphate content	GEOSPEC 3: 2001 Test 9.3 GEOSPEC 3: 2017 Test 9.3 BS 1377: Part 3: 1990 Cl. 5 ***< Excluding the following >*** C1. 5.6
	pH value	GEOSPEC 3: 2001 Test 9.5 GEOSPEC 3: 2017 Test 9.5 BS 1377: Part 3: 1990 Cl. 9
Water (Chemical analysis)	Total dissolved solids	APHA 18e 2540C APHA 21e 2540C
	Chloride ion content	APHA 18e 4500-CT B APHA 21e 4500-CT B BS EN 1008: 2002 Cl. 6.1.3 & BS EN 196-21: 1992 Cl. 4
	Sulphate content (SO_3)	BS 1377: Part 3: 1990 Cl. 5.4 & 5.5 BS EN 1008: 2002 Cl. 6.1.3 & BS EN 196-2: 1995 Cl. 8
	Alkalinity (carbonate and bicarbonate contents)	APHA 18e 2320B APHA 21e 2320B
	pH value	In-house Method WAT-C5: 2003
	Sodium content (Na)	In-house Method WAT-C6: 2003
	Potassium content (K)	In-house Method WAT-C6: 2003
	Acid-soluble alkali content (equivalent Na_2O)	In-house Method WAT-C6: 2003
	Sodium oxide content (Na_2O)	BS EN 1008: 2002 Cl. 6.1.3 & BS EN 196-21: 1992 Cl. 7
	Potassium oxide content (K_2O)	BS EN 1008: 2002 Cl. 6.1.3 & BS EN 196-21: 1992 Cl. 7
	Alkali content (equivalent Na_2O)	BS EN 1008: 2002 Cl. 6.1.3 & BS EN 196-21: 1992 Cl. 7

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
C2, G/F, Flat G, 4/F & Flat E, 7/F, Chin Fat Factory Building, 3 Tsat Po Street, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗七寶街三號振發工廠大厦地下 C2, 四樓 G 室及七樓 E 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Welds (destructive)	Bend test of fusion welded joints	BS 709: 1983 + Amd. 8909, 9146 & 9378 Cl. 6 BS EN 910: 1996 BS EN ISO 5173: 2010 + A1: 2011
	Charpy V-notch impact test of fusion welded joints	BS 709: 1983 + Amd. 8909, 9146 & 9378 Cl. 11 BS EN 875: 1995
	Fracture test on welds in metallic materials	BS 709: 1983 + Amd. 8909, 9146 & 9378 Cl. 7 & 8 BS EN 1320: 1997 BS EN ISO 9017: 2013
	Longitudinal tensile test of fusion welded joints	BS 709: 1983 + Amd. 8909, 9146 & 9378 Cl. 5.3 BS EN 876: 1995
	Macro-etch test on welded reinforcing steel for concrete	BS 7123: 1989 Cl. 12.3.4.2 & 12.3.6
	Macroscopic examination of fusion welded joints	BS 709: 1983 + Amd. 8909, 9146 & 9378 Cl. 9 BS EN 1321: 1997 BS EN ISO 17639: 2013
	Tensile test on welded reinforcing steel for concrete	BS 7123: 1989 Cl. 12.3.4.1 & 12.3.5 BS EN ISO 17660-1: 2006 Cl. 14.2
	Transverse tensile test of fusion welded joints	BS 709: 1983 + Amd. 8909, 9146 & 9378 Cl. 5.1 BS EN 895: 1995
	Vickers hardness test of fusion welded joints in scale range of HV5 and HV10	BS 709: 1983 + Amd. 8909, 9146 & 9378 Cl. 10 BS EN 1043-1: 1996

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
C2, G/F, Flat G, 4/F & Flat E, 7/F, Chin Fat Factory Building, 3 Tsat Po Street, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗七寶街三號振發工廠大厦地下 C2, 四樓 G 室及七樓 E 室

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Water and Wastewater	Physical Examination :-	
	- Conductivity	APHA 21e 2510 B
	- pH value	APHA 21e 4500-H^+ B
	- Total solids dried at 103 - 105°C	APHA 20e 2540 B APHA 21e 2540 B
	- Total dissolved solids dried at 180°C	APHA 20e 2540 C APHA 21e 2540 C
	- Total suspended solids dried at 103 - 105°C	APHA 20e 2540 D APHA 21e 2540 D
	- Turbidity	APHA 21e 2130 B
	Trace Metals:-	
	- Digestion procedure	APHA 21e 3030F
	- Iron	APHA 21e 3120B
	Organic Pollutants :-	
	- Chemical oxygen demand	APHA 20e 5220 D APHA 21e 5220 D

Geotechnics & Concrete Engineering (Hong Kong) Ltd.
香港土力混凝土工程有限公司
No. 4-A3, Lin Tong Mei Village, Sheung Shui, New Territories, Hong Kong
香港新界上水蓮塘尾村 4-A3 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Cement stabilised soil	Unconfined compressive strength of cement stabilised soil cores (with / without capping)	Interim Guidelines on Testing of Unconfined Compressive Strength of Cement Stabilised Soil Cores in Hong Kong (Oct 2017) App. B published by Geotechnical Division of The Hong Kong Institution of Engineers

Labour Department - Occupational Safety and Health Branch - Occupational Hygiene Laboratory
勞工處 - 職業安全及健康部 - 職業環境衞生實驗室

ADDRESS : 15/F., Harbour Building, 38 Pier Road, Central, Hong Kong
地址 香港中環統一碼頭道三十八號海港政府大樓十五字樓

ENQUIRY : Ms Edwina PO Sau-man, Acting Senior Occupational Hygienist (Headquarters)
查詢 布秀文女士,署任高級職業環境衞生師(總部)

TELEPHONE : 2852 4049
電話

FAX : 2581 2049
傳真

E-MAIL : edwinasmpo@labour.gov.hk
電郵

WEBSITE ADDRESS : http://www.labour.gov.hk
網址

CLIENTELE : Government departments, normally not available for public testing
服務對象 通常只服務政府部門

Labour Department - Occupational Safety and Health Branch - Occupational Hygiene Laboratory
勞工處 - 職業安全及健康部 - 職業環境衞生實驗室

ADDRESS : 15/F., Harbour Building, 38 Pier Road, Central, Hong Kong
地址 香港中環統一碼頭道三十八號海港政府大樓十五字樓

ACCREDITED TEST CATEGORY : Environmental Testing 環境測試
認可測試類別

Labour Department - Occupational Safety and Health Branch - Occupational Hygiene Laboratory
勞工處 - 職業安全及健康部 - 職業環境衞生實驗室
15/F., Harbour Building, 38 Pier Road, Central, Hong Kong
香港中環統一碼頭道三十八號海港政府大樓十五字樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Asbestos in bulk	Sampling a) Cementitious b) Wet applied c) Dry applied d) Bonded	In-house Method TM-D
Asbestos Bulk Samples	Identification	In-house Method TM-F (Polarised Light Microscopy)
Asbestos air-borne fibres and dust	Air sampling - Personal sampling - Work Environment sampling	In-house Method TM-C
Asbestos air-borne samples	Fibre counting	In-house Method TM-E (Phase Contrast Microscopy)

Soils & Materials Engineering Co. Ltd.
綜合試驗有限公司

ADDRESS 地址	:	Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong 香港新界葵涌永基路 22-24 號好爸爸創科大廈
ENQUIRY 查詢	:	Mr KWOK Chun-chuen 郭鎮川先生
TELEPHONE 電話	:	2873 6860
FAX 傳真	:	2555 7533
E-MAIL 電郵	:	smec@cigismec.com
WEBSITE ADDRESS 網址	:	www.cigismec.com
CLIENTELE 服務對象	:	Public 公眾

Soils & Materials Engineering Co. Ltd.
綜合試驗有限公司

ADDRESS
地址 : Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永基路22-24號好爸爸創科大廈

ACCREDITED TEST CATEGORIES
認可測試類別 : Calibration Services 校正服務
Construction Materials 建築材料
Environmental Testing 環境測試

Soils & Materials Engineering Co. Ltd.
綜合試驗有限公司

Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永基路 22-24 號好爸爸創科大廈

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Acoustic and vibration measurements		
- Acoustic measurements		
- Sound calibrator	Calibration for the following parameters using insert voltage technique in accordance with IEC 60942: 1997 Annex B	
	Sound pressure level (63 Hz to 4 kHz) at: 94 dB, 104 dB and 114 dB	0.08 dB
	Sound pressure level (above 4 kHz to 8 kHz) at: 94 dB, 104 dB and 114 dB	0.10 dB
	Sound pressure level (above 8 kHz to16 kHz) at: 94 dB, 104 dB and 114 dB	0.25 dB
	Sound pressure level stability (63 Hz to 16 kHz) over the following range : 94 dB, 104 dB and 114 dB	0.005 dB
	Frequency over the following range: 63 Hz to 16 kHz	0.1 Hz
	Total distortion (63 Hz to 16 kHz; 94 dB; 104 dB; 114 dB) over the following range: 0 % to 5 %	0.7 %

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Soils & Materials Engineering Co. Ltd.
綜合試驗有限公司

Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永基路 22-24 號好爸爸創科大廈

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Acoustic and vibration measurements (cont'd)		
- Acoustic measurements (cont'd)		
- Sound calibrator (cont'd)	Calibration for the following parameters using insert voltage technique in accordance with IEC 60942: 2003 Annex B	
	Sound pressure level (63 Hz to 4 kHz) at: 94 dB, 104 dB and 114 dB	0.08 dB
	Sound pressure level (above 4 kHz to 8 kHz) at: 94 dB, 104 dB and 114 dB	0.10 dB
	Sound pressure level (above 8 kHz to 16 kHz) at: 94 dB, 104 dB and 114 dB	0.25 dB
	Frequency over the following range: 63 Hz to 16 kHz	0.1 Hz
	Total distortion (63 Hz to 16 kHz; 94 dB; 104 dB; 114 dB) over the following range: 0 % to 5 %	0.5 %

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Soils & Materials Engineering Co. Ltd.
綜合試驗有限公司

Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永基路 22-24 號好爸爸創科大廈

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Acoustic and vibration measurements (cont'd)		
- Acoustic measurements (cont'd)		
- Sound level meter and integrating averaging sound level meter	Calibration for the following parameters in accordance with BS 7580: Part 1: 1997	
	Electrical tests:	
	Self generated noise	0.2 dB
	Linearity	0.2 dB
	Frequency weighting	0.2 dB
	Time weighting F and S	0.2 dB
	Peak response	0.2 dB
	r.m.s. accuracy	0.2 dB
	Time weight I	0.2 dB
	Time averaging	0.2 dB
	Pulse range and sound exposure level	0.3 dB
	Overload indication for SLM	0.2 dB
	Overload indication for integrating SLM	0.3 dB
	Acoustic tests:	
	At 125 Hz by using sound calibrator	0.2 dB
	At 1000 Hz by using sound calibrator	0.2 dB
	At 8000 Hz by using sound calibrator	0.3 dB

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Soils & Materials Engineering Co. Ltd.
綜合試驗有限公司

Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永基路 22-24 號好爸爸創科大廈

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Acoustic and vibration measurements (cont'd)		
- Acoustic measurements (cont'd)		
- Sound level meter and integrating averaging sound level meter (cont'd)	Calibration for the following parameters in accordance with IEC 61672-3: 2013	
	Indication at the calibration check frequency	0.2 dB
	Self generated noise-replaced by the electrical input signal device	0.2 dB
	Acoustic signal tests:	
	125 Hz to 1 kHz	0.2 dB
	above 1 kHz to 8 kHz	0.3 dB
	Electrical signal tests of frequency weighting	0.2 dB
	Frequency and time weighting at 1K Hz	0.1 dB
	Long-term stability	0.1 dB
	Level linearity on the reference level range	0.2 dB
	Level linearity including the level range control	0.2 dB
	Toneburst response	0.2 dB
	C-weighted peak sound level	0.2 dB
	Overload indication	0.2 dB
	High-level stability	0.1 dB

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Soils & Materials Engineering Co. Ltd.
綜合試驗有限公司

Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永基路 22-24 號好爸爸創科大廈

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Construction materials testing equipment		
- Cement grout flow cone	Calibration in accordance with in-house procedure SMTP004-CA-051 for the performance as specified in ASTM C939/C939M-16 Cl. 9; or ASTM C939/C939M-22 Cl. 9	
	Time of efflux of water from cone: 8.0 s	0.07 s
- Compacting bar	Verification in accordance with in-house procedure SMTP004-CA-046 for the dimensional and mass requirements as specified in CS1: 2010 Vol. 1 Cl. A10	
	Dimensions of ramming face: 25 mm x 25 mm	0.1 mm
	Length: 380 mm	0.2 mm
	Mass: 1.8 kg	10 g

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Soils & Materials Engineering Co. Ltd.
綜合試驗有限公司

Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永基路 22-24 號好爸爸創科大廈

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Construction materials testing equipment (cont'd)		
- Concrete test cube mould	Verification in accordance with in-house procedure SMTP004-CA-041 for the dimensional requirements as specified in CS1: 2010 Vol. 1 Cl. A25	
	Dimensions: 100 mm or 150 mm	0.05 mm
	Flatness: not more than 0.03 mm or 0.06 mm	0.005 mm
	Squareness / Perpendicularity: 0.5 mm	0.005 mm
	Parallelism: 1 mm	0.05 mm
- Curing tank	On-site calibration for the following parameters in accordance with in-house procedure SMTP004-CA-034	
	- temperature distribution at a range of (27 ± 3) ℃	0.6 K
	- efficiency of circulation	0.8 minutes
- Drying oven	On-site calibration for the temperature variation in accordance with in house procedure SMTP004-CA-008, or AS 1289.0- 2000 cl. 4.2.1 or AS 1289.0- 2014 cl. 4.2.2	
	Temperature variation: 10 ℃ to 150 ℃	1.0 K
	On-site calibration for the evaporation rate in accordance with AS 1289.0 - 2000 cl. 4.2.3	
	Evaporation rate: 5 g/hr to 40 g/hr	1.0 g/hr

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Soils & Materials Engineering Co. Ltd.
綜合試驗有限公司

Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永基路 22-24 號好爸爸創科大廈

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Construction materials testing equipment (cont'd)		
- Levelling staff	Calibration for length in accordance with in-house procedure SMTP004-CA-205 over the following range :	
	0 m to 5 m	0.8 mm
- Rebound hammer	Calibration for rebound value in accordance with in-house procedure SMTP004-CA-047A using an anvil complying with BS EN 12504-2: 2021 Cl. 5.2	1 rebound count
	Calibration for the friction of rider in accordance with in-house procedure SMTP004-CA-047A	0.03 N
- Sieve (perforated plate)	Verification in accordance with in-house procedure SMTP004-CA-009D for the dimensional requirements as specified in BS 410-2: 2000; or ISO 3310-2: 1999	
	Hole size: 4 mm to 125 mm	(0.02 + 1.3y) mm where y is the hole size in metre
	Pitch: 4 mm to 200 mm	(0.02 + 1.8y) mm where y is the hole size in metre
	Plate thickness: 0.5 mm to 4 mm	0.1 mm
	Verification in accordance with in-house procedure SMTP004-CA-009D for the dimensional requirements as specified in ISO 3310-2: 2013	
	Hole size: 4 mm to 125 mm	0.04 mm
	Pitch: 4 mm to 200 mm	0.06 mm
	Plate thickness: 0.5 mm to 4 mm	0.1 mm

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Soils & Materials Engineering Co. Ltd.
綜合試驗有限公司

Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永基路 22-24 號好爸爸創科大廈

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Construction materials testing equipment (cont'd) - Sieve (woven wire cloth)	Verification in accordance with in-house procedure SMTP004-CA-009C for the dimensional requirements as specified in BS 410-1: 2000; or ISO 3310-1: 2000; or ISO 3310-1: 2016	
	Aperture size: 0.02 mm to 125 mm	(1.6 + 4.0y) µm where y is the nominal value of aperture size in mm
	Wire diameter: 0.015 mm to 10 mm	(1.6 + 4.0y) µm where y is the nominal value of wire diameter in mm

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Soils & Materials Engineering Co. Ltd.
綜合試驗有限公司

Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永基路 22-24 號好爸爸創科大廈

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Construction materials testing equipment (cont'd)		
- Slump cone	Calibration in accordance with in-house procedure SMTP004-CA-040 for the dimensional requirements as specified in CS1: 2010 Vol. 1 Cl. A5	
	Wall thickness: minimum 1.5 mm	0.3 mm
	Internal diameter of base: 200 mm	0.7 mm
	Internal diameter of top: 100 mm	0.6 mm
	Height: 300 mm	0.4 mm
- Tamping rod	Calibration in accordance with in-house procedure SMTP004-CA-040 for the dimensional requirements as specified in CS1: 2010 Vol. 1 Cl. A6	
	Diameter: 16 mm	0.1 mm
	Length: 600 mm	0.5 mm
- Vane shear tester	Calibration for torque in accordance with in-house procedure SMTP004-CA-149 over the following range :	
	0.1 N·m to 50 N·m	1.5 % of reading

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Soils & Materials Engineering Co. Ltd.
綜合試驗有限公司

Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永基路 22-24 號好爸爸創科大廈

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electricity and magnetism - Time and frequency - Stopwatch	Calibration for time in accordance with in-house procedure SMTP004-CA-019 over the following range : 1 s to 3600 s	 30 ms

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Soils & Materials Engineering Co. Ltd.
綜合試驗有限公司

Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永基路 22-24 號好爸爸創科大廈

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Length and related quantities		
- Angle		
- Angle measuring device	Calibration for angle in accordance with in-house procedure SMTP004-CA-141 over the following range :	
	0° to 360°	3.1 minute of arc
- Spirit level (cylindrical vial) 30 mm to 500 mm	Calibration for sensitivity in accordance with BS 3509: 1962: App. A.2C over the following range :	
	0.04 mm/m to 25 mm/m	0.003 mm/m to 1.5 mm/m
- Square length of blade up to 315 mm length of stock up to 200 mm	Calibration for deviation from squareness in accordance with in-house procedure SMTP004-CA-059 over the following range :	
	-20 μm to 20 μm	11 μm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Soils & Materials Engineering Co. Ltd.
綜合試驗有限公司

Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永基路 22-24 號好爸爸創科大廈

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related quantities (cont'd) - Form - Straightedge of rectangular section 300 mm to 1000 mm	Calibration for deviation from straightness in accordance with in-house procedure SMTP004-CA-025 over the following range : -30 µm to 30 µm	 3.0 µm to 8.2 µm
- Surface plate diagonal length 300 mm to 2000 mm	Calibration for deviation from the flatness overall of the working surface in accordance with in-house procedure SMTP004-CA-090 for the requirements as specified in BS 817: 1988 Cl. 9.2 over the following range : -80 µm to 80 µm Calibration for roughness of the working surface in accordance with in-house procedure SMTP004-CA-090 over the following range : 0.1 µm to 5 µm On-site calibration for deviation from the flatness overall of the working surface in accordance with in-house procedure SMTP004-CA-090 for the requirements as specified in BS 817: 1988 Cl. 9.2 over the following range : -80 µm to 80 µm On-site calibration for roughness of the working surface in accordance with in-house procedure SMTP004-CA-090 over the following range : 0.1 µm to 5.0 µm	 8.6 µm to 18 µm 10 % of reading 8.6 µm to 18 µm 10 % of reading

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Soils & Materials Engineering Co. Ltd.
綜合試驗有限公司

Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永基路 22-24 號好爸爸創科大廈

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Length and related quantities (cont'd) - Form (cont'd) - Surface texture sample	Calibration for roughness (R_a) in accordance with in-house procedure SMTP004-CA-108 over the following range : 0.1μm to 5.0 μm	 10 % of reading

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Soils & Materials Engineering Co. Ltd.
綜合試驗有限公司

Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永基路 22-24 號好爸爸創科大廈

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related quantities (cont'd) - Length		
- Calibration foil	Calibration for thickness in accordance with in-house procedure SMTP-CA-049C over the following range :	
	10 μm to 1500 μm	3.5 μm
- Coating thickness gauge	Calibration for length using calibration foils in accordance with in-house method SMTP-CA-049B over the following range:	
	10 μm to 1500 μm	4.5 μm
- Dial gauge	Calibration for length in accordance with BS 907: 2008 Annex B using digital micrometer head with 0.0001 mm resolution over the following range :	
	0 mm to 25 mm	7 μm
	Calibration for length in accordance with AS 2103: 1978 App. A5; or GEOSPEC 3: 2001 Cl. A.3.4 using digital micrometer head with 0.0001 mm resolution over the following range :	
	0 mm to 25 mm	6 μm
	Calibration for length in accordance with BS 907: 2008 Annex B; or AS 2103: 1978 App. A5; or GEOSPEC 3: 2001 Cl. A.3.4 using digital micrometer head with 0.001 mm resolution over the following ranges :	
	0 mm to 50 mm	17 μm

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Soils & Materials Engineering Co. Ltd.
綜合試驗有限公司

Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永基路 22-24 號好爸爸創科大廈

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Length and related quantities (cont'd)		
- Length (cont'd)		
- Engineer's steel measuring rule	Calibration for length in accordance with in-house procedure SMTP004-CA-004 over the following range :	
	0 m to 1 m	0.3 mm
- Extensometer		
- Grade C with gauge length from 100 mm to 600 mm - Grade D with gauge length from 50 mm to 600 mm - Grade E or F with gauge length from 25 mm to 600 mm	On-site calibration for displacement using calibration rig and verification of grade in accordance with BS 3846: 1970 (excluding determination of calibration factor) over the following range :	
	0.003 mm to 25 mm	1.3 µm to 10 µm
- Class 1 or Class 2 with gauge length from 25 mm to 600 mm	On-site calibration for displacement using using calibration rig and verification of class in accordance with BS EN 10002-4: 1995; or BS EN ISO 9513: 2002 over the following range :	
	0.003 mm to 25 mm	1.3 µm to 10 µm
- Class 1 or Class 2 with gauge length from 25 mm to 600 mm	On-site calibration for displacement using using calibration rig and verification of class in accordance with BS EN ISO 9513: 2012 over the following range :	
	0.003 mm to 25 mm	0.4 µm to 40 µm
- External micrometer	Calibration for travel length in accordance with BS 870: 1950 App. A over the following ranges :	
	0 mm to 50 mm	3 µm
	above 50 mm to 100 mm	20 µm

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Soils & Materials Engineering Co. Ltd.
綜合試驗有限公司

Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永基路 22-24 號好爸爸創科大廈

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Length and related quantities (cont'd) - Length (cont'd)		
- Feeler gauge	Calibration for thickness of blade in accordance with in-house procedure SMTP004-CA-032 for the requirements as specified in BS 957: 2008 Cl. 7 over the following range :	
	0.03 mm to 1.00 mm	4 μm
- Gauge block	Calibration for length using comparator in accordance with JJG 146-2011 cl. 7.3.9.2 and 7.3.10 over the following range :	
	0.5 mm to 100 mm	(0.2 + 3 x length in m) μm
- Linear variable displacement transducer (LVDT)	Calibration for length in accordance with in-house procedure SMTP004-CA-006B over the following range :	
	0 mm to 100 mm	20 μm
	Calibration for length in accordance with GEOSPEC 3: 2001 Cl. A.3.4; or GEOSPEC 3: 2017 Cl. A.3.4 over the following ranges :	
- at resolution of 0.001 mm	0 mm to 50 mm	3 μm
- at resolution of 0.01 mm	0 mm to 100 mm	20 μm
- Measuring microscope	On-site calibration for length in accordance with in-house procedure SMTP004-CA-151 over the following range :	
	travel distance of x-y measuring stage: 100 mm x 100 mm	3 μm

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Soils & Materials Engineering Co. Ltd.
綜合試驗有限公司

Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永基路 22-24 號好爸爸創科大廈

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related quantities (cont'd) - Length (cont'd) - Measuring tape	Calibration for length in accordance with in-house procedure SMTP004-CA-116 over the following range : 0 m to 150 m	 0.25 mm to 7.5 mm
- Steel measuring tape	Calibration for length in accordance with in-house method SMTP004-CA-116 over the following range : 0 m to 150 m	 0.32 mm to 9.6 mm
- Thickness gauge	Calibration for length in accordance with in-house method SMTP004-CA-049A over the following range : 0 mm to 10 mm	 2.8 µm
- Vernier calliper	Calibration for length in accordance with BS 887: 2008 Annex B over the following range : External: 0 mm to 300 mm Internal: 0 mm to 300 mm	 20 µm 20 µm
- Vernier height gauge	Calibration for length in accordance with BS 1643: 2008 Annex A.2 over the following range : 0 mm to 450 mm	 20 µm to 30 µm

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Soils & Materials Engineering Co. Ltd.
綜合試驗有限公司

Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永基路 22-24 號好爸爸創科大廈

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related quantities - Liquid flow - Water meter (mechanical type) size of meter : 15 mm to 25 mm	Calibration for the volume of water passed through the water meter in accordance with BS 5728: Part 3: 1997 (ISO 4064-3: 1999) Cl. 5 The volume of water collected is nominally 10 litre, 20 litre, 50 litre or 100 litre	 1% of reading

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Soils & Materials Engineering Co. Ltd.
綜合試驗有限公司

Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永基路 22-24 號好爸爸創科大廈

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities (cont'd) - Force - Force testing machine - Compression testing machine	On-site calibration for compressive force using true force method and Grade 1.0 load cells and verification for grade in accordance with BS 1610: Part 1: 1992 over the following range :	
	0.1 kN to 3000 kN	0.4 % of reading
	On-site calibration for compressive force using true force method or indicated force method and Class 1 load cells and verification for class in accordance with BS EN ISO 7500-1: 2004; or BS EN 12390-4: 2000 Annex B; or CS1 : 2010 Vol.2 App. D; or BS EN ISO 7500-1: 2018 over the following range :	
	0.1 kN to 3000 kN	0.4 % of reading

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Soils & Materials Engineering Co. Ltd.
綜合試驗有限公司

Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永基路 22-24 號好爸爸創科大廈

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related quantities (cont'd) - Force (cont'd) - Force testing machine (cont'd) - Compression testing machine (cont'd)	On-site verification for strain ratio by performing strain gauged column and proving test (stability test) in accordance with BS 1881: Part 115: 1986 + Amd. 6536; or BS EN 12390-4: 2000 Annex A; or CS1: 2010 Vol.2 App. D over the following range : 200 kN to 2000 kN	 0.02 strain ratio

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Soils & Materials Engineering Co. Ltd.
綜合試驗有限公司

Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永基路 22-24 號好爸爸創科大廈

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related quantities (cont'd) - Force (cont'd) - Force testing machine (cont'd) - Uniaxial testing machine in tension mode	On-site calibration for tensile force using true force method and Grade 1.0 load cells and verification for grade in accordance with BS 1610: Part 1: 1985 over the following range:	
	0.2 kN to 2000 kN	0.4 % of reading
	On-site calibration of tensile force using true force method or indicated force method and Class 1 load cells and verification for class in accordance with BS EN ISO 7500-1: 2004; or BS EN ISO 7500-1: 2018 over the following range :	
	0.2 kN to 2000 kN	0.4 % of reading

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Soils & Materials Engineering Co. Ltd.
綜合試驗有限公司

Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永基路 22-24 號好爸爸創科大廈

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities (cont'd) - Force (cont'd) - Force testing machine (cont'd) - Universal testing machine in compression mode	On-site calibration for compressive force using true force method and Grade 1.0 load cells and verification for grade in accordance with BS 1610: Part 1: 1985; or BS 1610: Part 1: 1992 over the following range:	
	0.1 kN to 3000 kN	0.4 % of reading
	On-site calibration for compressive force using true force method or indicated force method and Class 1 load cells and verification for class in accordance with BS EN ISO 7500-1:2004; or BS EN ISO 7500-1:2018 over the following range :	
	0.1 kN to 3000 kN	0.4 % of reading

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Soils & Materials Engineering Co. Ltd.
綜合試驗有限公司

Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永基路 22-24 號好爸爸創科大廈

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related quantities (cont'd) - Force (cont'd)		
- Impact testing machine	On-site indirect verification in accordance with BS EN 10045-2: 1993 Cl. 6; or BS EN 148-2: 2016 Cl. 7 over the following absorbed energy levels :	
	20 J to 40 J	2.7 J
	above 40 J to 220 J	11 J
- Load cell or other force transducer in compression and tension mode	Calibration for compressive and tensile forces in accordance with in-house procedure SMTP004-CA-028 over the following ranges :	
	0.1 kN to 10 kN	0.16 % of reading
	above 10 kN to 50 kN	0.23 % of reading
	On-site calibration of compressive and tensile forces in accordance with in-house procedure SMTP004-CA-028 over the following ranges :	
	0.1 kN to 10 kN	0.16 % of reading
	above 10 kN to 50 kN	0.23 % of reading

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Soils & Materials Engineering Co. Ltd.
綜合試驗有限公司

Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永基路 22-24 號好爸爸創科大廈

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related quantities (cont'd)		
- Force (cont'd)		
- Load cell or other force transducer in compression mode	Calibration for compressive force in accordance with GEOSPEC 3: 2001 Cl. A.3.1; or GEOSPEC 3: 2017 Cl. A.3.1 over the following ranges :	
	0.1 kN to 10 kN	0.4 % to 0.23 % of reading
	above 10 kN to 50 kN	0.23 % of reading
	On-site calibration for compressive force in accordance with GEOSPEC 3: 2001 Cl. A.3.1; or GEOSPEC 3: 2017 Cl. A.3.1 over the following ranges :	
	0.1 kN to 10 kN	0.4 % to 0.23 % of reading
	above 10 kN to 50 kN	0.23 % of reading
	Calibration for compressive force in accordance with in-house procedure SMTP004-CA-028A over the following ranges :	
	50 kN to 500 kN	0.6 % of reading
	above 500 kN to 3000 kN	0.6 % of reading

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Soils & Materials Engineering Co. Ltd.
綜合試驗有限公司

Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永基路 22-24 號好爸爸創科大廈

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related quantities (cont'd) - Force (cont'd)		
- Proving ring in compression mode	Calibration for compressive force in accordance with GEOSPEC 3: 2001 Cl. A.3.1 over the following ranges :	
	0.1 kN to 10 kN	0.35 % of reading
	above 10 kN to 50 kN	0.22 % of reading
	Calibration for compressive force in accordance with GEOSPEC 3: 2017 Cl. A.3.1 over the following ranges :	
	0.1 kN to 10 kN	0.8 % to 0.22 % of reading
	above 10 kN to 50 kN	0.22 % of reading
	On-site calibration for compressive force in accordance with GEOSPEC 3: 2017 Cl. A.3.1 over the following ranges :	
	0.1 kN to 10 kN	0.8 % to 0.22 % of reading
	above 10 kN to 50 kN	0.22 % of reading
	Calibration for compressive force in accordance with in-house procedure SMTP004-CA-028 over the following ranges :	
	0.1 kN to 10 kN	0.35 % of reading
	above 10 kN to 50 kN	0.22 % of reading
- Push-pull gauge	Calibration for compressive and tensile forces in accordance with in-house procedure SMTP004-CA-165 using standard weights over the following range :	
	2 N to 100 N	0.03 N to 0.4 N

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Soils & Materials Engineering Co. Ltd.
綜合試驗有限公司

Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永基路 22-24 號好爸爸創科大廈

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related quantities (cont'd) - Hardness - Hardness sample	Calibration for hardness in accordance with BS EN ISO 6508-1: 2005 cl. 7 over the following ranges : Rockwell scale 20 HRB to 100 HRB 20 HRC to 70 HRC Calibration for hardness in accordance with BS EN ISO 6507-1: 2005 cl. 7 over the following range : Vickers scale 210 HV30 to 730 HV30	 2.8 HRB 1.5 HRC 3.0 % of reading

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Soils & Materials Engineering Co. Ltd.
綜合試驗有限公司

Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永基路 22-24 號好爸爸創科大廈

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related quantities (cont'd) - Hardness (cont'd) - Hardness testing machine	On-site indirect verification of testing machine for Rockwell hardness scales in accordance with BS EN ISO 6508-2: 2005 Cl. 5 over the following ranges :	
	20 HRB to 100 HRB	1.2 HRB
	20 HRC to 70 HRC	0.6 HRC
	On-site indirect verification of testing machine for Vickers hardness scale in accordance with BS EN ISO 6507-2: 2005 Cl. 5 over the following range :	
	210 HV30 to 730 HV30	2.5 % of reading

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Soils & Materials Engineering Co. Ltd.
綜合試驗有限公司

Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永基路 22-24 號好爸爸創科大廈

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related quantities (cont'd) - Pressure - Pressure gauge	Calibration for pressure in accordance with in-house procedure SMTP004-CA-027 using oil as pressure medium over the following ranges :	
	40 kPa to 6000 kPa	0.68 kPa to 11 kPa
	above 6000 kPa to 60000 kPa	170 kPa
	Calibration for pressure in accordance with in-house procedure SMTP004-CA-027 using water as pressure medium over the following range :	
	10 kPa to 800 kPa	0.5 kPa to 2 kPa
	On-site calibration for pressure in accordance with in-house procedure SMTP004-CA-027 using water as pressure medium over the following range :	
	10 kPa to 800 kPa	0.5 kPa to 2 kPa

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Soils & Materials Engineering Co. Ltd.
綜合試驗有限公司

Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永基路 22-24 號好爸爸創科大廈

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related quantities (cont'd) - Pressure - Pressure gauge (cont'd)	Calibration for pressure in accordance with GEOSPEC 3: 2001 Cl. A.3.2; or GEOSPEC 3: 2017 Cl. A.3.2 using water as pressure medium over the following range :	
	10 kPa to 800 kPa	0.5 kPa to 2 kPa
	On-site calibration for pressure in accordance with GEOSPEC 3: 2001 Cl. A.3.2; or GEOSPEC 3: 2017 Cl. A.3.2 using water as pressure medium over the following range :	
	10 kPa to 800 kPa	0.5 kPa to 2 kPa
	Calibration for pressure in accordance with in-house procedure SMTP004-CA-027 using gas as pressure medium over the following range :	
	5 kPa to 400 kPa	0.4 kPa to 0.8 kPa

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Soils & Materials Engineering Co. Ltd.
綜合試驗有限公司

Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永基路 22-24 號好爸爸創科大廈

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related quantities (cont'd) - Pressure (cont'd) - Pressure transducer	Calibration for pressure in accordance with in-house procedure SMTP004-CA-027 using oil as pressure medium over the following ranges :	
	40 kPa to 6000 kPa	0.3 kPa to 3 kPa
	above 6000 kPa to 60000 kPa	30 kPa
	Calibration for pressure in accordance with in-house procedure SMTP004-CA-027 using water as pressure medium over the following range :	
	10 kPa to 800 kPa	0.3 kPa to 1.2 kPa
	On-site calibration for pressure in accordance with in-house procedure SMTP004-CA-027 using water as pressure medium over the following range :	
	10 kPa to 800 kPa	0.3 kPa to 1.2 kPa
	Calibration for pressure in accordance with GEOSPEC 3: 2001 Cl. A.3.2; or GEOSPEC 3: 2017 Cl. A.3.2 using water as pressure medium over the following range :	
	10 kPa to 800 kPa	0.3 kPa to 1.2 kPa
	On-site calibration for pressure in accordance with GEOSPEC 3: 2001 Cl. A.3.2; or GEOSPEC 3: 2017 Cl. A.3.2 using water as pressure medium over the following range :	
	10 kPa to 800 kPa	0.3 kPa to 1.2 kPa

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Soils & Materials Engineering Co. Ltd.
綜合試驗有限公司

Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永基路 22-24 號好爸爸創科大廈

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related quantities (cont'd) - Pressure (cont'd)		
- Pressure transducer (cont'd)	Calibration for pressure in accordance with in-house procedure SMTP004-CA-027 using gas as pressure medium over the following range :	
	5 kPa to 400 kPa	0.2 kPa to 0.3 kPa
- Vacuum gauge	Calibration for pressure using dead-weight tester in accordance with in-house procedure SMTP004-CA-146 over the following range :	
	-100 kPa to -5 kPa	0.33 kPa

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Soils & Materials Engineering Co. Ltd.
綜合試驗有限公司

Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永基路 22-24 號好爸爸創科大廈

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related quantities (cont'd) - Torque - Torque wrench	Calibration for torque in accordance with in-house procedure SMTP004-CA-120 over the following ranges :	
	0.1 N·m to 1.0 N·m	0.007 N·m to 0.021 N·m
	above 1 N·m to 5 N·m	0.025 N·m to 0.06 N·m
	above 5 N·m to 50 N·m	0.12 N·m to 0.65 N·m
	above 50 N·m to 1000 N·m	1.1 N·m to 11 N·m

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Soils & Materials Engineering Co. Ltd.
綜合試驗有限公司

Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永基路 22-24 號好爸爸創科大廈

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related quantities (cont'd)		
- Volume		
- Single channel piston-operated pipette (for type A only)	Calibration for the delivered volume in accordance with ISO 8655-6: 2002 over the following ranges :	
	10 µl to 50 µl	0.7 µl
	above 50 µl to 100 µl	1.2 µl
	above 100 µl to 500 µl	7 µl
	above 500 µl to 1 ml	8 µl
	above 1 ml to 5 ml	35 µl
	above 5 ml to 10 ml	60 µl
	Calibration for the delivered volume in accordance with in-house procedure SMTP004-CA-240 over the following ranges :	
	10 µl to 50 µl	0.7 µl
	above 50 µl to 100 µl	1.2 µl
	above 100 µl to 500 µl	7 µl
	above 500 µl to 1 ml	8 µl
	above 1 ml to 5 ml	35 µl
	above 5 ml to 10 ml	60 µl

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Soils & Materials Engineering Co. Ltd.
綜合試驗有限公司

Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永基路 22-24 號好爸爸創科大廈

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related quantities (cont'd)		
- Volume		
- Single channel piston-operated pipette (for type A only)	Calibration for the delivered volume in accordance with ISO 8655-6: 2022 and verification for maximum permissible systematic error and random error as specified in ISO 8655-2: 2022 over the following ranges :	
	1 µl to 5 µl	0.06 µl
	above 5 µl to 10 µl	0.13 µl
	above 10 µl to 50 µl	0.7 µl
	above 50 µl to 100 µl	1.2 µl
	above 100 µl to 500 µl	7 µl
	above 500 µl to 1 ml	8 µl
	above 1 ml to 5 ml	35 µl
	above 5 ml to 10 ml	60 µl
- Multi-channel piston-operated pipette (for type A only)	Calibration for the delivered volume in accordance with ISO 8655-6: 2022 and verification for maximum permissible systematic error and random error as specified in ISO 8655-2: 2022 over the following ranges :	
	1 µl to 5 µl	0.1 µl
	above 5 µl to 10 µl	0.14 µl
	above 10 µl to 50 µl	0.8 µl
	above 50 µl to 100 µl	2 µl
	above 100 µl to 300 µl	3 µl

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Soils & Materials Engineering Co. Ltd.
綜合試驗有限公司

Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永基路 22-24 號好爸爸創科大廈

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related quantities (cont'd)		
- Mass		
- Electronic balance	Calibration for mass in accordance with in-house procedure SMTP004-CA-003 using following OIML Class standard weights (1) E1 weights from 1 mg to 500 g (2) F1 weights from 1 mg to 20 kg (3) M1 weights from 10 kg to 20 kg over the following ranges :	
	1 mg to 5 g	0.02 mg
	above 5 g to 100 g	0.02 mg to 0.2 mg
	above 100 g to 1 kg	0.2 mg to 6 mg
	above 1 kg to 10 kg	6 mg to 40 mg
	above 10 kg to 50 kg	40 mg to 2 g
	above 50 kg to 110 kg	2 g to 10 g
	On-site calibration for mass in accordance with in-house procedure SMTP004-CA-003 using following OIML Class standard weights (1) E1 weights from 1 mg to 500 g (2) F1 weights from 1 mg to 20 kg (3) M1 weights from 10 kg to 20 kg over the following ranges :	
	1 mg to 5 g	0.02 mg
	above 5 g to 100 g	0.02 mg to 0.2 mg
	above 100 g to 1 kg	0.2 mg to 6 mg
	above 1 kg to 10 kg	6 mg to 40 mg
	above 10 kg to 50 kg	40 mg to 2 g
	above 50 kg to 110 kg	2 g to 10 g

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Soils & Materials Engineering Co. Ltd.
綜合試驗有限公司

Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永基路 22-24 號好爸爸創科大廈

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related quantities (cont'd)		
- Mass (cont'd)		
- Electronic balance (cont'd) (analytical)	Calibration for mass in accordance with in-house procedure SMTP004-CA-003 using following OIML Class standard weights E1 weights from 1 mg to 500 g over the following ranges :	
	1 mg to 1 g	6 µg to 10 µg
	above 1 g to 30 g	10 µg to 50 µg
	On-site calibration for mass in accordance with in-house procedure SMTP004-CA-003 using following OIML Class standard weights E1 weights from 1 mg to 500 g over the following ranges :	
	1 mg to 1 g	6 µg to 10 µg
	above 1 g to 30 g	10 µg to 50 µg
- Weight	Calibration for mass in accordance with in-house procedure SMTP004-CA-007 over the following ranges :	
	1 mg to 200 mg	8 µg
	above 200 mg to 2 g	20 µg
	above 2 g to 20 g	45 µg
	above 20 g to 80 g	0.2 mg
	above 80 g to 200 g	0.4 mg
	above 200 g to 1 kg	5 mg
	above 1 kg to 10 kg	20 mg
	above 10 kg to 30 kg	310 mg

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Soils & Materials Engineering Co. Ltd.
綜合試驗有限公司

Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永基路 22-24 號好爸爸創科大廈

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Thermometry		
- Humidity		
- Hygrometer	Calibration for relative humidity within the room temperature range of 20 ℃ to 25 ℃ in accordance with in-house procedure SMTP004-CA-145 over the following range :	
	10 %rh to 90 %rh	2.3 % RH to 3.4 % RH
- Temperature		
- Dial thermometer	Calibration for temperature in accordance with in-house procedure SMTP004-CA-127 over the following ranges :	
	0 ℃ to 110 ℃	1.7 K
	above 110 ℃ to 500 ℃	4.0 K
- Electronic thermometer	Calibration for temperature in accordance with in-house procedure SMTP004-CA-026 over the following ranges :	
	-10 ℃ to 110 ℃	0.3 K
	above 110 ℃ to 200 ℃	0.5 K
	above 200 ℃ to 600 ℃	3.4 K
	above 600 ℃ to 960 ℃	6.3 K
- Liquid-in-glass thermometer	Calibration for temperature in accordance with in-house procedure SMTP004- CA-013 over the following ranges :	
	-10 ℃ to -5 ℃	0.3 K
	above -5 ℃ to 110 ℃	0.1 K

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Soils & Materials Engineering Co. Ltd.
綜合試驗有限公司

Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永基路 22-24 號好爸爸創科大廈

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Adhesive	Pull-off test of tile adhesive	In-house method FT017
	Pull-off test of tiles	In-house method FT005
	Pull-off test on concrete	Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance and Building Materials Specification Part D Cl. 4.1.3
	Pull-off test of repair mortar	Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance and Building Materials Specification Part D Cl. 2.1.15 Method 1
Admixtures (Chemical analysis)	Ash content	BS 5075: Part 1: 1982 (Amd. 11057) App. D.2
	Chloride content	BS 5075: Part 1: 1982 (Amd. 11057) App. E
	Water-soluble chloride content	BS EN 480: Part 10: 2009
	Dry material content	BS 5075: Part 1: 1982 (Amd. 11057) App. D.1
	Conventional dry material content	BS EN 480: Part 8: 2012
	Relative density (liquid)	BS 5075: Part 1: 1982 (Amd. 11057) App. D.3
	Density of liquid admixture	ISO 758: 1976
	pH value	In-house method SMTP003-CH(AD)-001
	pH of liquid admixture	ISO 4316: 1977
	Acid-soluble alkali content (equivalent Na_2O)	In-house method SMTP003-CH(AD)-006
	Alkali content (as equivalent Na_2O)	BS EN 480: Part 12: 2005
	Sodium oxide content	BS EN 480: Part 12: 2005
	Potassium oxide content	BS EN 480: Part 12: 2005

Soils & Materials Engineering Co. Ltd.
綜合試驗有限公司

Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永基路 22-24 號好爸爸創科大廈

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Aggregates	Sampling	BS 812: Part 102: 1989 CS3: 2013 Section 8
	Particle size distribution	BS 812: Section 103.1: 1985 + Amd. 6003 (by sieve analysis) CS3: 2013 Section 10 (by sieve analysis)
	Flakiness index	BS 812: Section 105.1: 1989 CS3: 2013 Section 11
	Elongation index	BS 812: Section 105.2: 1990 CS3: 2013 Section 12
	Methylene blue value	CS3: 2013 Section 13
	Los Angeles value	CS3: 2013 Section 14
	Aggregate impact value	BS 812: Part 3: 1975 + Amd. 4616 BS 812: Part 112: 1990 + Amd. 8772 CS3: 2013 Section 15
	Ten per cent fines value	BS 812: Part 111: 1990 CS3: 2013 Section 16
	Particle densities and water absorption	BS 812: Part 2: 1995 + Amd. 9195 & Amd. 10379 Cl. 5 CS3: 2013 Section 17
	Moisture content	BS 812: Section 109: 1990 (by oven drying method) CS3: 2013 Section 18 (by oven drying method)
	Soundness	BS 812: Part 121: 1989 excluding Cl.4 & App. A CS3: 2013 Section 19
	Drying shrinkage	CS3: 2013 Section 20
	Effect of organic substances by mortar method	CS3: 2013 Section 22
	Alkali silica reaction potential by ultra-accelerated mortar-bar test	CS1: 2010 Section 22

Soils & Materials Engineering Co. Ltd.
綜合試驗有限公司

Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永基路 22-24 號好爸爸創科大廈

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Aggregates (cont'd)	Clay, silt and dust content	BS 812: Part 1: 1975 + Amd. 4875 Cl. 7.2 (Decantation method)
	Bulk density	BS 812: Part 2: 1975 + Amd. 4615 Cl. 6
	Relative density and water absorption	BS 812: Part 2: 1975 + Amd. 4615 (Gas jar method & wire basket method)
	Shell content in coarse aggregates	BS 812: Part 106: 1985
	Aggregate crushing value	BS 812: Part 110: 1990
	Resistance to degradation of small size coarse aggregate by abrasion and impact in the Los Angeles Machine	ASTM C131-81 with modification ASTM C131-96 with modification
	Resistance to degradation of large size coarse aggregate by abrasion and impact in the Los Angeles Machine	ASTM C535-81 with modification ASTM C535-96 with modification
	Compacting fraction value of aggregates for granular bed	General Specification for Civil Engineering Works, (2006) Vol. 1 App. 5.2 Hong Kong Housing Authority Specification Library (2018) DRA2.T250.7 to DRA2.T280.8 Hong Kong Housing Authority Specification Library (2022) DRA2.T250.9 to DRA2.T280.9

Soils & Materials Engineering Co. Ltd.
綜合試驗有限公司

Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永基路 22-24 號好爸爸創科大廈

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Aggregate (Chemical analysis)	Acid-soluble material	BS 812: Part 119: 1985 *Excluding* Cl. 4
	Water-soluble chloride salts	BS 812: Part 117: 1988 *Excluding* Cl. 4
	Water-soluble chloride ion content	CS3: 2013 Section 21.3
	Acid-soluble chloride ion content	CS3: 2013 Section 21.4
	Chloride content (acid extraction)	BS 812: Part 117: 1988 App. C *Excluding* Cl. 4
	Water-soluble sulphate content	BS 812: Part 118: 1988 Cl. 5 *Excluding* Cl. 4 (gravimetric)
	Total sulphate content (acid extraction)	BS 812: Part 118: 1988 Cl. 6 *Excluding* Cl. 4
	Acid-soluble sulphate content	CS3: 2013 Section 21.5
	Total sulphur content	CS3: 2013 Section 21.6
	Soluble calcium oxide content	HKHA MTS (2012/2014) for Construction Materials Specification Part D Cl. 1.4.9
	Soluble silica content	HKHA MTS (2012/2014) for Construction Materials Specification Part D Cl. 1.4.9
	Presence of humus	CS3: 2013 Section 21.7

Soils & Materials Engineering Co. Ltd.
綜合試驗有限公司

Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永基路 22-24 號好爸爸創科大廈

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Bituminous materials	Bulk specific gravity and density of non-absorptive compacted bituminous mixtures	ASTM D2726-96a Method 9.1
	Bulk specific gravity and density of compacted bituminous mixtures using automatic vacuum sealing method	ASTM D6752-11 ASTM D6752M-11
	Percentage air voids in compacted dense bituminous paving mixtures	ASTM D3203-94 ASTM D3203/D3203M-11
	Polymer modified binder content and particle size distribution of polymer modified friction coarse and cushion coarse materials by centrifuge method and ignition method	Particular Specification for Highways Department Guidance Notes on Road Surface Requirements for Expressways and High Speed Roads RD/GD/032 (Jun 2007) App. B
	Quantitative extraction of bitumen from bituminous paving mixtures	ASTM D2172-95 (Method A using ashing method)
	Sieve analysis of fine and coarse aggregates and materials finer than 75 micron sieve in mineral aggregates by washing	ASTM C117-95 Procedure B ASTM C136-96a with modification
	Theoretical maximum specific gravity of bituminous paving mixtures	ASTM D2041-95 (Weighing in water method using type A container) with modification
Blocks & Bricks	Compressive strength of clay bricks	BS 3921: 1985 + Amd. 8946 App. D
	Compressive strength of interlocking blocks	Hong Kong Housing Authority Specification Library (2018) EXT3.T110.8 - T160.8 Hong Kong Housing Authority Specification Library (2022) EXT3.T110.9 - T160.9
	Compressive strength of paving blocks	General Specification for Civil Engineering Works (2006) Vol. 1 App. 11.1 General Specification for Civil Engineering Works (2020) Vol. 1 App. 11.1
	Compressive strength of precast concrete masonry units	BS 6073: Part1: 1981 + Amd. 3944 & 4462 App. B

Soils & Materials Engineering Co. Ltd.
綜合試驗有限公司

Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永基路 22-24 號好爸爸創科大廈

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Blocks & Bricks (cont'd)	Compressive strength of precast concrete paving blocks	BS 6717: Part 1: 1993 Annex B
	Dimensions of clay and calcium silicate pavers	BS 6677: Part 1: 1986 App. A & C
	Dimensions of clay bricks	BS 3921: 1985 + Amd. 8946 App. A
	Dimensions of paving blocks	BS 6717: Part 1: 2001 Annex B BS EN 1338: 2003 + Corr 1: 2006 Annex C in conjunction with the following specification(s): BS EN 1338: 2003 + Corr 1: 2006 Table 1 & 2 General Specification for Civil Engineering Works (2020) Vol. 1 Cl. 11.86 (4)
	Dimensions and plan area of precast concrete paving blocks	BS 6717: Part 1: 1993 Annex A
	Dimensions of precast concrete flags, kerbs, channels and edgings	BS 7263: Part 1: 1994 Annex A
	Dimensions of precast concrete masonry units	BS 6073: Part1: 1981 + Amd. 3944 & 4462 App. A
	Transverse breaking load of clay & calcium silicate pavers	BS 6677: Part 1: 1986 App. D
	Transverse strength of precast concrete flags, kerbs, channels and edgings	BS 7263: Part1: 1994 Annex B
	Transverse strength of precast concrete masonry units	BS 6073: Part1: 1981 + Amd. 3944 & 4462 App. C
	Skid resistance value of clay & calcium silicate pavers	BS 6677: Part 1: 1986 App. E
	Unpolished slip/skid resistance value of clay pavers	BS EN 1344: 2002 Annex F
	Water absorption of clay bricks	BS 3921: 1985 + Amd. 8946 App. E
	Water absorption of masonry units, segmental pavers and flags	AS/NZS 4456.14: 1997 AS/NZS 4456.14: 2003
	Water absorption of precast concrete flags, kerbs, channels and edgings	BS 7263: Part 1: 1994 Annex C

Soils & Materials Engineering Co. Ltd.
綜合試驗有限公司

Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永基路 22-24 號好爸爸創科大廈

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Cement & Portland pulverized fuel ash cement (PPFAC)	Compressive strength of broken mortar prisms in the force range 5 kN - 250 kN	BS EN 196-1: 1995 BS EN 196-1: 2005 BS EN 196-1: 2016
	Density	BS EN 196-6: 1992 Annex NC BS EN 196-6: 2010 Annex NC BS EN 196-6: 2018 Annex NC
	Fineness	BS EN 196-6: 1992 (by Blaine Method) BS EN 196-6: 2010 (by Blaine Method) BS EN 196-6: 2018 (by Blaine Method)
	Flexural strength of mortar prisms in the force range 0.5 kN - 5 kN	BS EN 196-1: 1995 BS EN 196-1: 2005 BS EN 196-1: 2016
	Sampling	BS EN 196-7: 2007
	Setting times	BS EN 196-3: 1995 BS EN 196-3: 2005 + A1: 2008 BS EN 196-3: 2016
	Soundness	BS EN 196-3: 1995 BS EN 196-3: 2005 + A1: 2008 BS EN 196-3: 2016
	Standard consistence	BS EN 196-3: 1995 BS EN 196-3: 2005 + A1: 2008 BS EN 196-3: 2016
Cement stabilised soil	Unconfined compressive strength of cement stabilised soil cores (with or without capping)	Interim Guidelines on Testing of Unconfined Compressive Strength of Cement Stabilised Soil Cores in Hong Kong (Oct 2017) App. B published by Geotechnical Division of The Hong Kong Institution of Engineers

Soils & Materials Engineering Co. Ltd.
綜合試驗有限公司

Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永基路 22-24 號好爸爸創科大廈

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Cement (Chemical analysis)	Aluminium oxide content (Al_2O_3)	BS EN 196: Part 2 : 1995 Cl. 13.11
	Chloride ion content	BS EN 196: Part 21: 1992 Cl. 4
	Residue insoluble in hydrochloric acid and sodium carbonate	BS EN 196: Part 2: 1995 Cl. 9
	Iron (III) oxide content (Fe_2O_3)	BS EN 196: Part 2: 1995 Cl. 13.10
	Loss-on-ignition (L.O.I.)	BS EN 196: Part 2: 1995 Cl. 7
	Magnesium oxide content (MgO)	BS EN 196: Part 2: 1995 Cl. 13.15
	Manganese content (Mn)	BS EN 196: Part 2: 1995 Cl. 12
	Manganese content (as MnO)	BS EN 196: Part 2: 1995 Cl. 12
	Manganese content (as Mn_2O_3)	BS EN 196: Part 2: 1995 Cl. 12
	Impure silica content	BS EN 196: Part 2: 1995 Cl. 13.2 & Cl. 13.3
	Pure silica content	BS EN 196: Part 2: 1995 Cl. 13.6
	Soluble silica content	BS EN 196: Part 2: 1995 Cl. 13.7 and Cl. 13.8
	Total silica content (SiO_2)	BS EN 196: Part 2: 1995 Cl. 13.9
	Sulfate content (as SO_3)	BS EN 196: Part 2: 1995 Cl. 8
	Calcium oxide content (CaO)	BS EN 196: Part 2: 1995 Cl. 13.14
	Heat of hydration	BS 4550: Part 3: Section 3.8: 1978 with modification
	Alkali content	BS EN 196: Part 21: 1992 Cl. 7 (reference method)

Soils & Materials Engineering Co. Ltd.
綜合試驗有限公司

Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永基路 22-24 號好爸爸創科大廈

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Portland cement with insoluble residue content < 1% (Chemical analysis)	Insoluble residue	ASTM C114-18 Cl. 7
	Silicon dioxide (SiO_2) content	ASTM C114-18 Cl. 8
	Ferric oxide content (Fe_2O_3)	ASTM C114-18 Cl. 10
	Phosphorus pcntoxidc content (P_2O_5)	ASTM C114-18 Cl. 11
	Titanium dioxide content (TiO_2)	ASTM C114-18 Cl. 12
	Aluminium oxide content (Al_2O_3)	ASTM C114-18 Cl. 9, Cl. 10, Cl. 11, Cl. 12 & Cl. 14
	Sulfur trioxide content (as SO_3)	ASTM C114-18 Cl. 17.1
	Magnesium oxide content (MgO)	ASTM C114-18 Cl. 23.2.1, Cl. 23.2.2 , Cl. 16.3 & Cl. 16.4
	Calcium oxide content (CaO)	ASTM C114-18 Cl. 23

Soils & Materials Engineering Co. Ltd.
綜合試驗有限公司

Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永基路 22-24 號好爸爸創科大廈

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Concrete	Sampling fresh concrete on site	CS1: 2010 Section 1
	Slump of fresh concrete	CS1: 2010 + Amd. 1/2017 Section 2 Part I
	Compacting factor of fresh concrete	CS1: 2010 Section 2 Part II
	Vebe time of fresh concrete	CS1: 2010 Section 2 Part III
	Flow table test	CS1: 2010 Section 2 Part IV
	Slump flow test	CS1: 2010 Section 2 Part V
	Stiffening time	CS1: 2010 Section 3
	Density of compacted fresh concrete	CS1: 2010 Section 5
	Air content of fresh concrete	CS1: 2010 Section 6
	Making test cubes from fresh concrete	CS1: 2010 Section 7
	Making test beams from fresh concrete	CS1: 2010 Section 8
	Making test cylinders from fresh concrete	CS1: 2010 Section 9
	Curing of test specimens	CS 1: 2010 Section 10
	Mixing and sampling of fresh concrete in the laboratory	CS1: 2010 Section 11
	Compressive strength of concrete cubes in the force range 50 kN - 3000 kN	CS1: 2010 Section 12
	Tensile splitting strength of cylinders	CS1: 2010 Section 13
	Flexural strength of beams	CS1: 2010 Section 14
	Obtaining core samples	CS1: 2010 Section 15
	Compressive strength of concrete cores in the force range 50 kN - 3000 kN	CS1: 2010 Section 15
	Density of hardened concrete	CS1: 2010 Section 16

Soils & Materials Engineering Co. Ltd.
綜合試驗有限公司

Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永基路 22-24 號好爸爸創科大廈

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Concrete (cont'd)	Depth of penetration of water under pressure	CS1: 2010 Section 18
	Concrete's ability to resist chloride ion penetration	CS1: 2010 Section 19
	Alkali silica reaction potential by concrete prism test	CS1: 2010 Section 23
	Accelerated curing of test specimens	BS 1881: Part 112: 1983 + Amd. 6100 (Method 35℃, 55℃ and 82℃)
	Water absorption	BS 1881: Part 122: 1983 + Amd. 6108
	Assessment of the cement, aggregate and water contents of fresh concrete	BS 1881: Part 128: 1997 Annex A (Buoyancy method)
	Monitoring of setting time of fresh concrete	Hong Kong Housing Authority Materials Testing Services (2017/2018) for Construction Materials Specification Part D Cl. 1.3.9
	Temperature monitoring (Heat of hydration monitoring)	In-house method FT045
	Temperature measurement of fresh concrete	BS 5328: Part 4: 1990 Cl. 3.4(b)
Concrete (diagnostic)	Covermeter survey	BS 1881: Part 204: 1988
	Surface hardness measurement	BS 1881: Part 202: 1986 BS EN 12504-2: 2001 BS EN 12504-2: 2012
	Ultrasonic pulse velocity measurement	BS 1881: Part 203: 1986 Cl. 6 (direct transmission)

Soils & Materials Engineering Co. Ltd.
綜合試驗有限公司

Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永基路 22-24 號好爸爸創科大廈

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Concrete (Chemical analysis)	Treatment of samples	BS 1881: Part 124: 1988 Cl. 4 CS1: 1990 Section 21.4 CS1: 2010 Section 21.4
	Cement and aggregate content (by CaO determination)	BS 1881: Part 124: 1988 Cl. 5.4 & 5.9 CS1: 1990 Section 21.6.4, 21.6.6 & 21.6.7 CS1: 2010 Section 21.6.4, 21.6.6 & 21.6.7
	Cement and aggregate content (by SiO_2 determination)	BS 1881: Part 124: 1988 Cl. 5.5 & 5.9 CS1: 1990 Section 21.6.5, 21.6.6 & 21.6.7 CS1: 2010 Section 21.6.5, 21.6.6 & 21.6.7
	Aggregate / cement ratio	BS 1881 Part 124: 1988 Cl. 5.9
	Chloride content	BS 1881: Part 124: 1988 Cl. 10.2 CS1: 1990 Section 21.10. 2 CS1: 2010 Section 21.10. 2
	Sulphate content	BS 1881: Part 124: 1988 Cl. 10.3 CS1: 1990 Section 21.10.3 CS1: 2010 Section 21.10.3
	Combined water content	BS 1881: Part 124: 1988 Cl. 7.5 CS1: 1990 Section 21.7.5 CS1: 2010 Section 21.7.5
	Capillary porosity	BS 1881: Part 124: 1988 Cl. 7.4 CS1: 1990 Section 21.7.4 CS1: 2010 Section 21.7.4
	Original water content	BS 1881: Part 124: 1988 Cl. 7 CS1: 1990 Section 21.7 CS1: 2010 Section 21.7
	Original water/cement ratio	BS 1881: Part 124: 1988 Cl. 5 & 7 CS1: 1990 Sections 21.6 and 21.7 CS1: 2010 Sections 21.6 and 21.7

Soils & Materials Engineering Co. Ltd.
綜合試驗有限公司

Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永基路 22-24 號好爸爸創科大廈

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Concrete (Chemical analysis) (cont'd)	Carbonate content	CS1: 1990 Section 21.10.4.2 (manometric) CS1: 2010 Section 21.10.4.2 (manometric)
	Detection of PFA	CS1: 1990 Section 21.5 CS1: 2010 Section 21.5
	pH value	In-house method SMTP003-CH(CO)-009
Foundation	Crosshole sonic logging test (SOLT)	ASTM D6760-02 ASTM D6760-16
	Pile dynamic test (PDA)	ASTM D4945-17
	Plate load test (PLT)	BS 1377: Part 9: 1990 Cl. 4.1 (incremental loading) excluding Cl. 4.1.6.1 Buildings Department Code of Practice for Foundations (Apr 2017) Cl. 8.2(2) excluding 8.2(2)(f) to (h)
Ground granulated blastfurnace slag (GGBS)	Fineness	BS EN 196-6: 2010 Cl. 4 (by Blaine method)
	Initial setting time	BS EN 196-3: 1995 Cl. 5 & 6
	Flexural strength of mortar prism in the force range 0.5 kN – 10 kN	BS EN 196-1: 1995
	Compressive strength of broken mortar prism in the force range 5 kN – 250 kN	BS EN 196-1: 1995
	Activity index	BS EN 15167-1: 2006 Cl. 5.3.2.3

Soils & Materials Engineering Co. Ltd.
綜合試驗有限公司

Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永基路 22-24 號好爸爸創科大廈

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Ground granulated blastfurnace slag (GGBS) (Chemical analysis)	Sample preparation	BS EN 196: Part 2: 2005 Cl. 6
	Moisture content	BS EN 15167: Part 1: 2006 Annex A
	Loss-on-ignition (L.O.I.), corrected for oxidation of sulfides	BS EN 196: Part 2: 2005 Cl. 7
	Sulfide content (as S^{2-})	BS EN 196: Part 2: 2005 Cl. 11
	Sulfate content (as SO_3)	BS EN 196: Part 2: 2005 Cl. 8
	Aluminium oxide content (Al_2O_3)	BS EN 196: Part 2: 2005 Cl. 13.11
	Magnesium oxide content (MgO)	BS EN 196: Part 2: 2005 Cl. 13.13 (reference method)
	Calcium oxide content (CaO)	BS EN 196: Part 2: 2005 Cl. 13.12 (reference method)
	Chloride content (Cl^-)	BS EN 196: Part 2: 2005 Cl. 14
	Iron (III) oxide content (Fe_2O_3)	BS EN 196: Part 2: 2005 Cl. 13.10
	Total alkali content (equivalent Na_2O)	BS EN 196: Part 21: 1992 Cl. 7 (reference method)
	Total silica content (SiO_2)	BS EN 196: Part 2: 2005 Cl. 13.9
	Pure silica content	BS EN 196: Part 2: 2005 Cl. 13.6
	Soluble silica content	BS EN 196: Part 2: 2005 Cl. 13.7 and Cl. 13.8
	Impure silica content	BS EN 196: Part 2: 2005 Cl. 13.2 and Cl. 13.4

Soils & Materials Engineering Co. Ltd.
綜合試驗有限公司

Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永基路 22-24 號好爸爸創科大廈

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Grout	Bleeding and free expansion	General Specification for Civil Engineering Works (2006) Vol.2 Cl. 17.60 Hong Kong Housing Authority Specification Library (2022) Cl. PIL 1.T320.9
	Change in height	ASTM C1090-01 (Re-approved 2005) ASTM C1090-15
	Compressive strength of grout cubes in the force range of 50 kN – 3000 kN	In-house method SMTP 001-CO-031 Hong Kong Housing Authority Materials Testing Services (2017/2018) for Construction Materials Specification Part D Cl. 2.1
	Early change in height	ASTM C827-01a (Re-approved 2005) ASTM C827-16
	Flow of grout for preplaced-aggregate concrete (flow cone method)	ASTM C939-97 ASTM C939-97 with modification (using 19 mm diameter discharge tube flow cone) ASTM C939-16a ASTM C939-16a with modifications (using 19 mm diameter discharge tube flow cone)
	Modified Figg test-Air permeability test	Hong Kong Housing Authority Materials Testing Services (2017/2018) for Construction Materials Specification Part D Cl. 2.8 Hong Kong Housing Authority Specification Library (2022) CON 2.T120.9(2)
	Setting time	ASTM C953-06 ASTM C953-17

Soils & Materials Engineering Co. Ltd.
綜合試驗有限公司

Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永基路 22-24 號好爸爸創科大廈

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Ground water (Chemical analysis)	Sulphate content	BS 1377: Part 3: 1990 Cl. 5 *Excluding* Cl. 5.6 GEO Report No. 36 Test 3.5.5: 1996 GEOSPEC 3: 2001 Cl. 9.3 GEOSPEC 3: 2017 Cl. 9.3
	pH value	BS 1377: Part 3: 1990 Cl. 9 GEOSPEC 3: 2001 Cl. 9.5 GEOSPEC 3: 2017 Cl. 9.5
Manhole steps	Bending test of manhole steps	BS 1247: Part 1: 1990 App. A
	Pull-out test of manhole steps	BS 1247: Part 1: 1990 App. B
	Twist test of manhole steps	BS 1247: Part 1: 1990 Cl. 7.1
	Twist test of steps for underground man entry chambers	BS EN 13101: 2002 Annex A
	Vertical loading test of steps for underground man entry chambers	BS EN 13101: 2002 Annex B
	Pull-out test of steps for underground man entry chambers	BS EN 13101: 2002 Annex D

Soils & Materials Engineering Co. Ltd.
綜合試驗有限公司

Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永基路 22-24 號好爸爸創科大廈

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Metallic materials	Mass per meter of steel reinforcing bars	BS 4449: 2005 + A2: 2009 Cl. 7.3 CS2: 2012 (Rev. 6) Cl. 6.1 & 6.2
	Bend test of carbon steel bars	BS 4449: 1988 Cl. 10.2 CS2: 1995 Cl. 6.1 & 6.3
	Rebend test of carbon steel bars	BS 4449: 1988 Cl. 10.3 CS2: 1995 Cl. 6.1 & 6.4
	Rebend test of reinforcing bars, wire rods, welded fabrics or cold reduced wires for reinforcement of concrete	BS EN ISO 15630-1: 2002 Cl. 7 in conjunction with the following specification(s): BS 4449: 2005 + A2: 2009 Cl. 7.2.5 BS 4482: 1985 Cl. 12.2 & App. C.5 BS 4482: 2005 Cl. 7.2.4 & 9 BS 4483: 1985 Cl. 12.1 BS 4483: 1998 Cl. 13.1 BS 4483: 2005 Cl. 7.2.5 & 8.1.3.2 CS2: 2012 (Rev. 6) Cl. 6.1 & 6.5
	Bond property of steel reinforcing bars by surface geometry measurement	BS EN ISO 15630-1: 2002 Cl. 10, 11.2 & 11.3 in conjunction with the following specification(s): BS 4449: 2005 + A2: 2009 Cl. 7.4 & 9 CS2: 2012 (Rev. 6) Cl. 6.1 & 6.7.2
	Charpy V-notch impact test	BS EN 10045-1: 1990 BS EN ISO 148-1: 2016
	Tensile test of carbon steel bars in the force range 2 kN – 2000 kN	BS 4449: 1988 CS2: 1995 Cl. 6.1 & 6.2
	Tensile test of reinforcing bars, wire rods, welded fabrics or cold reduced wires for reinforcement of concrete in the force range 2 kN - 2000 kN	BS EN 10002-1: 2001 BS EN ISO 6892-1: 2009 Cl. 10.4 Method B in conjunction with the following specification(s): BS 4449: 2005 + A2: 2009 Cl. 7.2.2, 7.2.3 & 8.1.3.1 BS 4482: 1985 Cl. 12.1 & App. C.3 BS 4482: 2005 Cl. 8.1.3.1 & 9 BS 4483: 1985 Cl. 12.1 BS 4483: 1998 Cl. 13.1 BS 4483: 2005 Cl. 7.2.2, 7.2.3, 8.1.3.1 & 9 BS EN ISO 15630-1: 2002 Cl. 5 BS EN ISO 15630-2: 2002 Cl. 5 CS2: 2012 (Rev. 6) Cl. 6.1 & 6.4

Soils & Materials Engineering Co. Ltd.
綜合試驗有限公司

Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永基路 22-24 號好爸爸創科大廈

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Metallic materials (cont'd)	Tensile test of high tensile 7-wire strands in the force range 5 kN – 2000 kN	BS EN ISO 6892-1: 2019 Cl. 10.3.2 & 10.3.3 Method A & Method B, & BS EN ISO 15630-3: 2010 Cl. 5 in conjunction with the following specification(s): BS 5896: 1980 App. A BS 5896: 2012 Cl. 7.2.2
	Tensile test of metallic materials in the force range 2 kN – 2000 kN	BS 18: 1987 in conjunction with the following specification(s): BS 4360: 1986 Cl. 23 BS EN 10002-1: 2001 Cl. 10 BS EN ISO 6892-1: 2019 Cl. 10.3.3 Method B in conjunction with the following specification(s): BS 4360: 1990 + Amd. 6825 Cl. 23 BS EN 10025-1: 2004 Cl. 7.3.1, 9.2.3.2 & 10.2.1 BS EN 10210-1: 2006 Cl. 6.6.1, 9.2.1 & 9.2.2 BS EN 10219-1: 2006 Cl. 6.7.1, 9.2.1 & 9.2.2
	Tensile test of machined bolts and screws in the force range 50 kN – 2000 kN	BS EN 10002-1: 2001 BS EN ISO 6892-1: 2009 Cl. 10.4 Method B in conjunction with the following specification(s): BS 3692: 2001 Cl. 11 & 13 BS EN 20898-1: 1992 Cl. 8.1 BS EN ISO 898-1: 2013 Cl. 9.7
	Tensile test of unmachined bolts and screws in the force range 50 kN – 2000 kN	BS EN 10002-1: 2001 BS EN ISO 6892-1: 2009 Cl. 10.4 Method B in conjunction with the following specification(s): BS 3692: 2001 Cl. 11 & 13 BS EN 20898-1: 1992 Cl. 8.2 BS EN ISO 898-1: 2013 Cl. 9.2
	Proof load test of steel nuts in the force range 50 kN – 2000 kN	BS 3692: 2001 Annex C.1 BS EN 20898-2: 1994 Cl. 5-7 & 8.1 BS EN ISO 898-2: 2012 Cl. 9.1
	Performance test of fusion bonded epoxy coated carbon steel bars	BS 3900: Part C5: 1992 Method 6 BS 7295: Part 1: 1990 + Amd. 6955 Cl. 4 Hong Kong Housing Authority Specification Library (2018) CON3.T450.8 & CON3.T460.8 Hong Kong Housing Authority Specification Library (2022) CON3.T450.9 & CON3.T460.9

Soils & Materials Engineering Co. Ltd.
綜合試驗有限公司

Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永基路 22-24 號好爸爸創科大廈

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Metallic materials (cont'd)	Tensile test & slip/permanent elongation test of mechanical coupler for reinforcing bar in the force range 2 kN - 2000 kN	BS EN ISO 6892-1: 2009 Cl. 10.4 Method B & ISO 15835-2: 2018 Cl. 5.4 excluding Cl. 5.4.4 in conjunction with the following specification(s): BS 8110: Part 1: 1997 Cl. 3.12.8.16.2 Buildings Department Code of Practice for Structural Use of Concrete (2004) Cl. 3.2.8.2 Buildings Department Code of Practice for Structural Use of Concrete (2013)Cl. 3.2.8.3 General specification for Civil Engineering Works (2006) Vol. 2 Cl. 15.35 General Specification for Civil Engineering Works (2020) Vol. 2 Cl. 15.35
	Static tension test, static compression test, cyclic tension & compression tests for mechanical connector systems (Type 2 Splice) for steel reinforcing bars in the force range 10 kN - 2000 kN	ICC Evaluation Service, Inc. AC133 (Approved May 2008, Effective 1 Jun 2008) Cl. 4.1.2 with modifications ICC Evaluation Service, Inc. AC133 (Approved Jan 2010, Effective 1 Jun 2010) Cl. 4.1.2 with modifications in conjunction with the following specification(s): Buildings Department Code of Practice for Structural Use of Concrete (2013) Cl. 3.2.8.4(b), (c) & (d)
	Weld shear force test of steel fabrics for reinforcement of concrete	BS EN ISO 15630-2: 2002 Cl. 7 ISO 10287: 1992 in conjunction with the following specification(s): BS 4483: 1985 Cl. 13.2 BS 4483: 1998 Cl. 13.2 BS 4483: 2005 Cl. 7.2.2 & 7.2.4
Pulverised-fuel ash (PFA)	Fineness	BS 3892: Part 1: 1982 App. D BS 3892: Part 1: 1997 Annex D
	Initial setting time	BS 3892: Part 1: 1997 Cl. 10
	Moisture content	BS 3892: Part 1: 1982 App. B BS 3892: Part 1: 1997 Annex C
	Particle density	BS 3892: Part 1: 1997 Cl. 7
	Soundness	BS 3892: Part 1: 1997 Cl. 11
	Strength factor	BS 3892: Part 1: 1997 Annex F
	Water requirement	BS 3892: Part 1: 1982 App. E BS 3892: Part 1: 1997 Annex E

Soils & Materials Engineering Co. Ltd.
綜合試驗有限公司

Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永基路 22-24 號好爸爸創科大廈

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Pulverised fuel ash (Chemical analysis)	Loss-on-ignition	BS EN 196: Part 2: 1995 Cl. 7 (using 1 hr for ignition time)
	Aluminium oxide content (Al_2O_3)	BS EN 196: Part 2: 1995 Cl. 13.11
	Iron (III) oxide content (Fe_2O_3)	BS EN 196: Part 2: 1995 Cl. 13.10
	Calcium oxide content (CaO)	BS EN 196: Part 2: 1995 Cl. 13.12 (reference method)
	Magnesium oxide content (MgO)	BS EN 196: Part 2: 1995 Cl. 13.13 (reference method)
	Sulfate content (as SO_3)	BS EN 196: Part 2: 1995 Cl. 8
	Total silica content (SiO_2)	BS EN 196: Part 2: 1995 Cl. 13.9
	Pure silica content	BS EN 196: Part 2: 1995 Cl. 13.6
	Soluble silica content	BS EN 196: Part 2: 1995 Cl. 13.7 and Cl. 13.8
	Impure silica content	BS EN 196: Part 2: 1995 Cl. 13.2 & 13.3
	Chloride content	BS EN 196: Part 21: 1992 Cl. 4
	Total alkali content (equivalent Na_2O)	In-house method SMTP 003-CH(PF) 005 BS EN 196: Part 21: 1992 Cl. 7 (reference method)
Portland pulverized fuel ash cement (PPFAC) (Chemical analysis)	Loss-on-ignition (L.O.I.)	BS EN 196: Part 2: 1995 Cl. 7
	Proportion of PFA	In-house method SMTP003-CH(PC)-005
	Sulfate content (as SO_3)	BS EN 196: Part 2: 1995 Cl. 8
Road surfaces	Luminance coefficient under defuse illumination (Qd) and retro-reflected luminance (RL) of road markings	BS EN 1436: 1998 Annex A & B (excluding Annex B7) BS EN 1436: 2007 + A1: 2008 Annex A & B (excluding Annex B7)
	Skid resistance of road surfaces/markings using a portable pendulum tester	BS EN 1436: 1998 Annex D BS EN 1436: 2007 + A1: 2008 Annex D
	Thickness of road marking materials (by micrometer method)	BS 3262: Part 3: 1989 App. B

Soils & Materials Engineering Co. Ltd.
綜合試驗有限公司

Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永基路 22-24 號好爸爸創科大廈

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Rock	Direct shear strength of jointed rock	International Society for Rock Mechanics (1981) Part 2: Suggested method for determining direct shear strength with modifications ASTM D5607-95 with modifications ASTM D5607-02 (Reapproved 2006) with modifications
	Point load strength index of rock by diametral, axial, block and irregular lump tests	ASTM D5731-95 International Society for Rock Mechanics (1985) Suggested method for determining point load strength
	Water content of rock	ASTM D2216-98 with modifications
	Porosity and density of intact rock using saturation and buoyancy techniques	International Society for Rock Mechanics (1981) Part 1 Method 3: Suggested method for porosity/density determination using saturation and buoyancy techniques with modifications
	Porosity and density of intact rock using saturation and caliper techniques	International Society for Rock Mechanics (1981) Part 1 Method 2: Suggested method for porosity/density determination using saturation and caliper techniques with modifications
	Pulse velocities and ultrasonic elastic constants of intact rocks	International Society for Rock Mechanics (1981) Suggested method for determining sound velocity with modifications
	Schmidt rebound hardness of rocks	International Society for Rock Mechanics (1981) Part 3: Suggested method for determining Schmidt rebound hardness with modification
	Unconfined compressive strength of intact rock core specimens	ASTM D2938-95 with modifications ASTM D7012-07 with modifications
	Preparation of rock core specimens and determination of dimensional shape and tolerances	ASTM D4543-85 (Re-approved 1991) with modifications
	Particle size distribution of coarse grading of rock armour	BS EN 13383-2: 2002 Cl. 5 BS EN 13383-2: 2013 Cl. 5 General Specification for Civil Engineering Works (2006) Vol. 1 Cl. 6.72(3)

Soils & Materials Engineering Co. Ltd.
綜合試驗有限公司

Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永基路 22-24 號好爸爸創科大廈

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Rock (Cont'd)	Mass distribution of light and heavy gradings of rock armour	BS EN 13383-2: 2002 Cl. 6 (reference method) BS EN 13383-2: 2013 Cl. 6 (reference method)
	Dropping test of rock armour to determine the resistance to fracture	General Specification for Civil Engineering Works (2006) Vol. 2 Cl.21.97 (1) & (2) & Cl.21.99 (2)
Soil (Phase I)	Moisture content by oven-drying at 45˚C ± 5˚C	GEOSPEC 3: 2001 Test 5.1 GEOSPEC 3: 2017 Test 5.1
	Moisture content by oven-drying at 105˚C ± 5˚C	GEOSPEC 3: 2001 Test 5.2 GEOSPEC 3: 2017 Test 5.2
	Comparative test for the determination of moisture content by oven-drying	GEOSPEC 3: 2001 Test 5.3 GEOSPEC 3: 2017 Test 5.3
	Liquid limit, plastic limit, and plasticity index	GEOSPEC 3: 2001 Test 6.1 GEOSPEC 3: 2017 Test 6.1
	Liquidity index	GEOSPEC 3: 2001 Test 6.2 GEOSPEC 3: 2017 Test 6.2
	Particle density by gas jar method	GEOSPEC 3: 2001 Test 7.1 GEOSPEC 3: 2017 Test 7.1
	Particle density by small pyknometer method	GEOSPEC 3: 2001 Test 7.2 GEOSPEC 3: 2017 Test 7.2
	Particle size distribution by wet sieving (with dispersant)	GEOSPEC 3: 2001 Test 8.1 GEOSPEC 3: 2017 Test 8.1
	Particle size distribution by wet sieving (without dispersant)	GEOSPEC 3: 2001 Test 8.2 GEOSPEC 3: 2017 Test 8.2
	Particle size distribution by hydrometer (with dispersant)	GEOSPEC 3: 2001 Test 8.5 GEOSPEC 3: 2017 Test 8.5
	Particle size distribution by hydrometer (without dispersant)	GEOSPEC 3: 2001 Test 8.6 GEOSPEC 3: 2017 Test 8.6
	Construction of a continuous particle size distribution curve from the results of wet-sieving and sedimentation tests	GEOSPEC 3: 2001 Test 8.7 GEOSPEC 3: 2017 Test 8.7

Soils & Materials Engineering Co. Ltd.
綜合試驗有限公司

Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永基路 22-24 號好爸爸創科大廈

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Soil (Phase I) (cont'd)	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a 1000cc mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.1 GEOSPEC 3: 2017 Test 10.1
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a 1000cc mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.2 GEOSPEC 3: 2017 Test 10.2
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a CBR mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.3 GEOSPEC 3: 2017 Test 10.3
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a CBR mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.4 GEOSPEC 3: 2017 Test 10.4
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a 1000cc mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.5 GEOSPEC 3: 2017 Test 10.5
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a 1000cc mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.6 GEOSPEC 3: 2017 Test 10.6
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a CBR mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.7 GEOSPEC 3: 2017 Test 10.7
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a CBR mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.8 GEOSPEC 3: 2017 Test 10.8

Soils & Materials Engineering Co. Ltd.
綜合試驗有限公司

Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永基路 22-24 號好爸爸創科大廈

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Soil (Phase I) (cont'd)	In-situ bulk density and in-situ dry density of soils by the sand replacement method suitable for fine- and medium-grained soils (with small pouring cylinder)	GEOSPEC 3: 2001 Test 11.1 GEOSPEC 3: 2017 Test 11.1
	In-situ bulk density and in-situ dry density of soils by the sand replacement method suitable for fine-, medium-, and coarse-grained soils (with large pouring cylinder)	GEOSPEC 3: 2001 Test 11.2 GEOSPEC 3: 2017 Test 11.2
	Relative compaction of fill material	GEOSPEC 3: 2001 Test 11.4 GEOSPEC 3: 2017 Test 11.4 Buildings Department PNAP APP-15 (2005) Cl. 4 App. A
	California Bearing Ratio (CBR)	GEOSPEC 3: 2001 Test 12.1 GEOSPEC 3: 2017 Test 12.1
	Density of soil by linear measurement method	BS 1377: Part 2: 1990 Cl. 7.2

Soils & Materials Engineering Co. Ltd.
綜合試驗有限公司

Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永基路 22-24 號好爸爸創科大廈

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Soil (Phase II)	One-dimensional consolidation test	GEOSPEC 3: 2001 Test 14.1 GEOSPEC 3: 2017 Test 14.1
	Isotropic compression test in a triaxial cell	GEOSPEC 3: 2001 Test 14.2 GEOSPEC 3: 2017 Test 14.2
	Unconsolidated undrained triaxial compression test without pore pressure measurement	GEOSPEC 3: 2001 Test 15.1 GEOSPEC 3: 2017 Test 15.1
	Isotropically consolidated undrained triaxial compression test with pore pressure measurement	GEOSPEC 3: 2001 Test 15.2 GEOSPEC 3: 2017 Test 15.2
	Isotropically consolidated undrained triaxial compression test with pore pressure measurement for loosely compacted fill materials (with use of carbon dioxide for sample saturation)	GEOSPEC 3: 2001 Test 15.2 with modifications GEOSPEC 3: 2017 Test 15.2 with modifications
	Isotropically consolidated drained triaxial compression test with measurement volume change	GEOSPEC 3: 2001 Test 15.3 GEOSPEC 3: 2017 Test 15.3
	Direct shear test (small shear box apparatus)	GEOSPEC 3: 2001 Test 16.1 GEOSPEC 3: 2017 Test 16.1
	Unconfined compressive strength of cohesive soil by load frame method	BS 1377: Part 7: 1990 Cl. 7
	Shear strength of cohesive soil by laboratory vane method	BS 1377: Part 7: 1990 Cl. 3

Soils & Materials Engineering Co. Ltd.
綜合試驗有限公司

Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永基路 22-24 號好爸爸創科大廈

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Soil (other)	Resistivity of soil by disc electrode method	BS 1377: Part 3: 1990 Cl. 10.2
	GCO probe test	General Specification for Civil Engineering Works (2006) Vol. 1 App. 7.1 GEOGUIDE 2:2017 Section 23 (dynamic probing)
	Pull-out test of soil nails	GEO Particular Specification for soil nail pull out test (2004) CL. 7.229A1 General Specification for Civil Engineering Works (2006) Vol. 1 Cl. 7.138
	Permeability by falling-head or constant-head method (with permeameter of model Nanjing-55)	CN SD128-84 with modifications
	Time domain reflectometry (TDR) test on soil nails	GEO Guidelines on Test Procedure using Time Domain Reflectometry (TDR) to determine the length of installed soil nails (July 2007)

Soils & Materials Engineering Co. Ltd.
綜合試驗有限公司

Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永基路 22-24 號好爸爸創科大廈

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Soil (Chemical analysis)	Organic matter content	BS 1377: Part 3: 1990 Cl. 3 GEOSPEC 3: 2001 Cl. 9.1 GEOSPEC 3: 2017 Cl. 9.1
	Mass loss on ignition	BS 1377: Part 3: 1990 Cl. 4 GEOSPEC 3: 2001 Cl. 9.2 GEOSPEC 3: 2017 Cl. 9.2
	Water-soluble chloride content	BS 1377: Part 3: 1990 Cl. 7.2 GEOSPEC3: 2001 Cl. 9.4 GEOSPEC3: 2017 Cl. 9.4
	Acid-soluble chloride content	BS 1377: Part 3: 1990 Cl. 7.3
	pH value	BS 1377: Part 3: 1990 Cl. 9 GEOSPEC3: 2001 Cl. 9.5 GEOSPEC3: 2017 Cl. 9.5
	Water-soluble sulphate content	BS 1377: Part 3: 1990 Cl. 5 *Excluding* Cl. 5.6 GEO Report No. 36: Test 3.5.5: 1996 GEOSPEC 3: 2001 Cl. 9.3 GEOSPEC 3: 2017 Cl. 9.3
	Acid-soluble sulphate content	BS 1377: Part 3: 1990 Cl. 5 *Excluding* Cl. 5.6 GEO Report No. 36 Test 3.5.5: 1996 GEOSPEC 3: 2001 Cl. 9.3
	Total sulphate content	GEOSPEC 3: 2017 Cl. 9.3
Structural fixings	Tensile proof load test of anchors by incremental loading in the force range 5 kN – 500 kN	BS 5080: Part 1: 1993 Cl. 6, 7.1.1 & 7.1.3 with modifications
	Tensile proof load test of drilled-in anchors used for cantilevered structure/hanger/curtain wall remedial works by incremental loading in the force range 5 kN – 500 kN	Buildings Department PNAP APP-169 (Oct 2023) App. A
	Tensile proof load test of drilled-in anchors used for works other than cantilevered structure/ hanger/curtain wall remedial works in the force range 5 kN – 500 kN	Buildings Department PNAP APP-169 (Oct 2023) App. B
	Tensile proof load test for cementitious or polymer based grouted bolts or dowels or reinforcing bars works in the force range 5 kN – 600 kN	Buildings Department PNAP APP-169 (Oct 2023) App. C

Soils & Materials Engineering Co. Ltd.
綜合試驗有限公司

Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永基路 22-24 號好爸爸創科大廈

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Elemental composition:-	
Steel (Chemical analysis)	Total carbon content	BS EN ISO 15350: 2010 (Method A) ISO 15350: 2000 (Method A)
	Total sulphur content	BS EN ISO 15350: 2010 (Method A) ISO 15350: 2000 (Method A)
	Nitrogen content	BS EN ISO 15351: 2010 ISO 15351: 1999
	Copper, Chromium, Manganese, Nickel, Molybdenum, Phosphorus, Vanadium	In-house method SMTP003-CH(ST)-004 (ICP-OES)
Low alloy steel (Chemical analysis)	Carbon equivalent value	CS2: 2012 Cl. 1.5.1 BS 4449:2005 + A2:2009 Cl. 7.1
Stainless steel (Co content up to 0.5 %) (Chemical analysis)	Nickel	ASTM E353-2019 Cl. 172-179 (dimethylglyoxime gravimetric method) ***<Excluding the following>*** Cl. 173.2, 175.1, 176.2 and 177.2
Stainless steel (Chemical analysis)	Chromium	ASTM E353-2019 Cl. 212-220 (peroxydisulfate oxidation and back titration with potassium permanganate) ***<Excluding the following>*** Cl. 216.3, 217.2, 217.3, 218.9, 218.10, 219.2
	Silica	In-house method SMTP003-CH(ST)-010 (ICP-OES)
	Aluminium, Copper, Manganese, Molybdenum, Phosphorus, Titanium, Vanadium	In-house method SMTP003-CH(ST)-011 (ICP-OES)

Soils & Materials Engineering Co. Ltd.
綜合試驗有限公司

Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永基路 22-24 號好爸爸創科大廈

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Elemental composition:-	
Iron (Chemical analysis)	Total carbon content	BS EN ISO 15350: 2010 (Method A) ISO 15350: 2000 (Method A)
	Total sulphur content	BS EN ISO 15350: 2010 (Method A) ISO 15350: 2000 (Method A)
	Nitrogen content	BS EN ISO 15351:2010 ISO 15351: 1999

Soils & Materials Engineering Co. Ltd.
綜合試驗有限公司

Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永基路 22-24 號好爸爸創科大廈

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Water (Chemical analysis)	Total alkalinity	APHA 20e 2320B
	Chloride content	APHA 20e 4550 Cl B BS EN 1008: 2002 Cl. 6.1.3 & BS EN 196-21: 1992 Cl.4
	Sulphate content	BS 1377: Part 3: 1990 Cl. 5 *Excluding* Cl. 5.6 BS EN 1008: 2002 Cl. 6.1.3 & BS EN 196-2: 1995: Cl. 8
	Total dissolved solids dried at 180ºC	APHA 20e 2540C
	Acid-soluble alkali content (equivalent Na_2O)	In-house method SMTP003-CH(WC)007
	Alkali content	BS EN 1008: 2002 Cl. 6.1.3 & BS EN 196-21: 1992 Cl. 7 (reference method)

Soils & Materials Engineering Co. Ltd.
綜合試驗有限公司

Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永基路 22-24 號好爸爸創科大廈

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Water and Wastewater	Physical examination :-	
	- pH value	In-house Method SMTP003-CH(EN)003
	- Total suspended solids dried at 103˚C to 105˚C	APHA 20e 2540 D (Gravimetric)
	Organic pollutants :-	
	- Chemical oxygen demand	APHA 20e 5220 B (Open reflux)
	Non-metallic constituents :-	
	Chloride Nitrite Nitrate ortho-Phosphate Sulfate	ASTM D4327-17 (Suppressed Ion Chromatography) ***<Excluding the following>*** Cl. 9.1

Chow Sang Sang Jewellery Co. Ltd. - Chow Sang Sang Precious Metal Laboratory
周生生珠寶金行有限公司 - 周生生貴金屬化驗所

ADDRESS : Flat A6, Block A, 2/F., Hong Kong Industrial Centre,
地址 489-491 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道489-491號香港工業中心A座二樓A6室

ENQUIRY : Mr Pitar LI Chi-ho
查詢 李志豪先生

TELEPHONE : 2173 2584
電話

FAX : 2370 3718
傳真

E-MAIL : li.chi.ho.8223@chowsangsang.com
電郵

WEBSITE ADDRESS : www.chowsangsang.com
網址

CLIENTELE : Public
服務對象 公眾

Chow Sang Sang Jewellery Co. Ltd. - Chow Sang Sang Precious Metal Laboratory
周生生珠寶金行有限公司 – 周生生貴金屬化驗所

ADDRESS **地址**	:	Flat A6, Block A, 2/F., Hong Kong Industrial Centre, 489-491 Castle Peak Road, Kowloon, Hong Kong 香港九龍青山道 489-491 號香港工業中心 A 座二樓 A6 室
ACCREDITED TEST CATEGORY **認可測試類別**	:	Calibration Services 校正服務 Chemical Testing 化學測試

Chow Sang Sang Jewellery Co. Ltd. - Chow Sang Sang Precious Metal Laboratory
周生生珠寶金行有限公司 – 周生生貴金屬化驗所
Flat A6, Block A, 2/F., Hong Kong Industrial Centre, 489-491 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道 489-491 號香港工業中心 A 座二樓 A6 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related quantities		
- Weight and balance		
- Electronic balance	On-site calibration for mass using OIML Class E2 weights from 1 mg to 1 kg in accordance with in-house procedure CSSPML-IR-7.2-WI-1 over the following ranges:	
	1 mg to 0.5 g	0.007 mg to 0.03 mg
	above 0.5 g to 5 g	0.03 mg to 0.06 mg
	above 5 g to 50 g	0.06 mg to 0.16 mg
	above 50 g to 500 g	0.16 mg to 2.0 mg
	above 500 g to 1.2 kg	2.0 mg to 13 mg
	On-site calibration for mass using OIML Class F1 weights from 1 mg to 16 kg in accordance with in-house procedure CSSPML-IR-7.2-WI-1 over the following ranges:	
	1 mg to 10 g	0.03 mg to 2 mg
	above 10 g to 200 g	2 mg to 20 mg
	above 200 g to 1 kg	20 mg to 100 mg
	above 1 kg to 16 kg	100 mg to 540 mg
- Volume		
- Single channel piston-operated pipette	Calibration for the contained or delivered volume in accordance with ISO 8655-6: 2022 and verification for maximum permissible systematic error and random error as specified in ISO 8655-2: 2022	
	1 µL to 10 µL	0.08 µL
	10 µL to 100 µL	0.5 µL to 2.2 µL
	above 100 µL to 500 µL	2.2 µL to 3.0 µL
	above 500 µL to 1 mL	3.0 µL to 8.6 µL
	above 1 mL to 5 mL	8.6 µL to 87 µL

@ UNLESS OTHERWISE SPECIFIED, ACCREDITED ACTIVITIES ARE CONDUCTED AT THE LABORATORY.

* THE CALIBRATION UNCERTAINTY OF A DEVICE UNDER TEST IS USUALLY REPORTED AT 95% CONFIDENCE LEVEL AND DEPENDS ON BOTH THE CMC OF THE LABORATORY AND THE PERFORMANCE OF THE DEVICE DURING CALIBRATION.

Chow Sang Sang Jewellery Co. Ltd. - Chow Sang Sang Precious Metal Laboratory
周生生珠寶金行有限公司 – 周生生貴金屬化驗所
Flat A6, Block A, 2/F., Hong Kong Industrial Centre, 489-491 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道 489-491 號香港工業中心 A 座二樓 A6 室

Chemical Testing 化學測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Gold and gold alloys	Fineness	ISO 11426: 2014 ISO 11426: 2021
	Fineness (by difference method) Impurities: Silver, Bismuth, Cadmium, Cobalt, Copper, Iron, Iridium, Manganese, Nickel, Lead, Palladium, Platinum, Rhodium, Ruthenium, Tin, Titanium, and Zinc	ISO 15093: 2015
	Fineness (by difference method) Impurities: Silver, Aluminum, Arsenic, Bismuth, Cadmium, Cobalt, Chromium, Copper, Iron, Gallium, Indium, Iridium, Magnesium, Manganese, Nickel, Lead, Palladium, Platinum, Rhodium, Ruthenium, Antimony, Selenium, Silicon, Tin, Tellurium, Titanium, Thallium, Tungsten, Zinc and Zirconium	ISO 15093: 2020
High purity gold in the form of ingots and granules ***<Excluding the following>*** Gold jewellery, accessories, investment gold bars and other derivatives	Gold content (by difference method) Impurities: Silver, Copper, Bismuth, Antimony, Palladium, Arsenic, Nickel, Manganese, Cadmium, Platinum, Rhodium, Iridium and Titanium	GB/T 25933-2010 Cl. 3.1.1 and Cl. 3.1.2 *Test procedure for compliance testing:* GB/T 25934.2-2010
	Iron, Lead, Silicon, Magnesium, Tin, Chromium, Aluminum and Zinc	GB/T 25934.3-2010 (with modification)

Chow Sang Sang Jewellery Co. Ltd. - Chow Sang Sang Precious Metal Laboratory
周生生珠寶金行有限公司 – 周生生貴金屬化驗所
Flat A6, Block A, 2/F., Hong Kong Industrial Centre, 489-491 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道 489-491 號香港工業中心 A 座二樓 A6 室

Chemical Testing 化學測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Platinum and platinum alloys	Fineness (by difference method) Impurities: Silver, Gold, Bismuth, Cadmium, Cobalt, Copper, Iron, Iridium, Manganese, Nickel, Lead, Palladium, Rhodium, Ruthenium, Tin, Titanium and Zinc	ISO 15093: 2015
	Fineness (by difference method) Impurities: Silver, Aluminum, Arsenic, Gold, Bismuth, Cadmium, Cobalt, Chromium, Copper, Iron, Gallium, Indium, Iridium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Lead, Palladium, Rhodium, Ruthenium, Antimony, Selenium, Silicon, Tin, Tantalum, Tellurium, Titanium, Thallium, Tungsten, Zinc and Zirconium	ISO 15093: 2020
	Fineness	In-house Method PML/JPA/TC2 In-house Method PML/JPA/TC4
Silver and silver alloys	Fineness	ISO 11427: 2014

Castco Testing Centre Ltd.
佳力高試驗中心有限公司

ADDRESS 地址	:	6/F., Techno Centre, 33 On Kui Street, On Lok Tsuen, Fanling, New Territories, Hong Kong 香港新界粉嶺安樂村安居街 33 號得利中心 6 樓
ENQUIRY 查詢	:	Dr Stephen LEE Shu-hang, Executive Director 李樹恆博士，執行總裁
TELEPHONE 電話	:	2597 8333
FAX 傳真	:	2597 8399
E-MAIL 電郵	:	info@castco.com.hk
WEBSITE ADDRESS 網址	:	www.castco.com.hk
CLIENTELE 服務對象	:	Public 公眾

Castco Testing Centre Ltd.
佳力高試驗中心有限公司

ADDRESS
地址

Main Laboratory	:	29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong 香港新界粉嶺安樂村安全街 29 號 A
Branch Laboratories	:	6/F, Techno Centre, 33 On Kui Street, On Lok Tsuen, Fanling, New Territories, Hong Kong 香港新界粉嶺安樂村安居街 33 號得利中心 6 樓
	:	31, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong 香港新界粉嶺安樂村安全街 31 號
Test Location at Zhongshan	:	No. 68, Bijiaotou Group, Baiqi Village, Nanlang Street, Zhongshan City, Guangdong Province, China 中國廣東省中山市南朗街道白企村碑角頭小組 68 號
ACCREDITED TEST CATEGORIES **認可測試類別**	:	Calibration Services 校正服務 Chemical Testing 化學測試 Chinese Medicine 中藥 Construction Materials 建築材料 Environmental Testing 環境測試 Food 食品 Miscellaneous 雜類 Pharmaceutical Products 藥物 Physical and Mechanical Testing 物理及機械測試

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Construction materials testing equipment		
- BRE screed tester	Verification in accordance with in-house method CAL-BRE for the dimensional and mass requirements as specified in BS 8204: Part 1: 1987: App. B2; or BS 8204: Part 1: 1999: Annex C2	
	Travel distance: 1000 mm	0.5 mm
	Diameter of tool piece: 25.23 mm	0.02 mm
	Mass of annular weight: 4.00 kg	2.1 g
	Depth measuring device: 0 to 10 mm	0.02 mm
- Cement grout flow cone	Verification in accordance with in-house method CAL-FLOW-CONE for the performance as specified in ASTM C939-02 Cl. 8, or ASTM C939-10 Cl. 9	
	Time of efflux of water from cone: 8.0 s	0.06 s
- Compacting bar	Verification in accordance with in-house method CAL-COMP-BAR for the dimensional and mass requirements as specified in CS1: 1990: Vol. 1 (Amd. 1102) App. A9; or CS1: 2010: Vol. 1 App. A10	
	Dimensions of ramming face: 25 mm x 25 mm	0.02 mm
	Length: 380 mm	1 mm
	Mass: 1.8 kg	2.1 g
- Covermeter	Calibration for depth of cover in accordance with in-house method CAL-COVER using a device as specified in BS 1881: Part 204: 1988 Cl. 6.2 (Method A) over the following range :	
	12 mm to 100 mm	1.5 mm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Construction materials testing equipment (cont'd)		
- Cube mould	Verification in accordance with in-house method CAL-MOULD for the dimensional requirements as specified in CS1: 1990 Vol. 1 (AMD 1102) App. A21 excluding A21.2(e); or CS1: 2010 Vol. 1 App. A25	
	Dimensions: 100 mm or 150 mm	0.03 mm
	Flatness: not more than 0.03 mm or 0.06 mm	0.007 mm
	Squareness: 0.5 mm	0.02 mm
	Parallelism: 1 mm	0.06 mm
	On-site verification in accordance with in-house method CAL-MOULD for the dimensional requirements as specified in CS1: 1990 Vol. 1 (AMD 1102) App. A21 excluding A21.2(e); or CS1: 2010 Vol. 1 App. A25	
	Dimensions: 100 mm or 150 mm	0.03 mm
	Flatness: not more than 0.03 mm or 0.06 mm	0.007 mm
	Squareness: 0.5 mm	0.02 mm
	Parallelism: 1 mm	0.06 mm
	Verification in accordance with in-house method CAL-MOULD for the dimensional requirements as specified in BS 4550: Part 3: Section 3.4: 1978 Cl. 2.3.1.3	
	Dimension: 70.7 mm	0.03 mm
	Flatness: not more than 0.03 mm or 0.06 mm	0.007 mm
	Squareness: 0.5 mm	0.02 mm
	On-site verification in accordance with in-house method CAL-MOULD for the dimensional requirements as specified in BS 4550: Part 3: Section 3.4: 1978 Cl. 2.3.1.3	
	Dimension: 70.7 mm	0.03 mm
	Flatness: not more than 0.03 mm or 0.06 mm	0.007 mm
	Squareness: 0.5 mm	0.02 mm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Construction materials testing equipment (cont'd)		
- Curing tank	On-site verification for the following parameters in accordance with in-house methods CAL-TANK-TEMP and CAL-TANK-CIR for the requirements as specified in CS1: 1990: Vol. 1 App. A24; or CS1: 2010: Vol. 1 App. A28	
	- temperature distribution at a range of (27 ± 3) ℃	0.4 K
	- efficiency of circulation	0.5 min
- Cylinder mould	Verification in accordance with in-house method CAL-CYLMOULD for the dimensional requirements as specified in CS 1: 1990: Vol. 1 App. A23 excluding A23.2 (*e*) and (*f*)	
	Dimension: 150 mm to 300 mm	0.05 mm
	Flatness: 0.03 mm to 0.15 mm	0.007 mm
	Squareness: 1.0 mm	0.02 mm
	Parallelism: 1.0 mm	0.06 mm
	On-site verification in accordance with in-house method CAL-CYLMOULD for the dimensional requirements as specified in CS 1: 1990: Vol. 1 App. A23 excluding A23.2 (*e*) and (*f*)	
	Dimension: 150 mm to 300 mm	0.05 mm
	Flatness: 0.03 mm to 0.15 mm	0.007 mm
	Squareness: 1.0 mm	0.02 mm
	Parallelism: 1.0 mm	0.06 mm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Construction materials testing equipment (cont'd)		
- Cylinder mould (cont'd)	Verification in accordance with in-house method CAL-CYLMOULD for the dimensional requirements as specified in CS 1: 2010: Vol. 1 App. A27	
	Dimension: 150 mm to 300 mm	0.05 mm
	Flatness: 0.03 mm to 0.15 mm	0.007 mm
	Straightness: 0.5 mm	0.007 mm
	Perpendicularity: 1.0 mm	0.02 mm
	Parallelism: 1.0 mm	0.06 mm
	On-site verification in accordance with in-house method CAL-CYLMOULD for the dimensional requirements as specified in CS 1: 2010: Vol. 1 App. A27	
	Dimension: 150 mm to 300 mm	0.05 mm
	Flatness: 0.03 mm to 0.15 mm	0.007 mm
	Straightness: 0.5 mm	0.007 mm
	Perpendicularity: 1.0 mm	0.02 mm
	Parallelism: 1.0 mm	0.06 mm
- Drying oven	On-site verification of temperature at center, temperature variation and evaporation rate in accordance with AS 1289.0: 2000 Cl. 4.2.1 and 4.2.3 over the following range :	
	Temperature: 105 ℃ to 110 ℃	1.0 ℃
	Evaporation rate at 105 ℃ to 110 ℃: 10 g/hr to 50 g/hr	0.5 g/hr
	On-site verification of temperature variation in accordance with in-house method CAL-OVEN2 over the following range :	
	45 ℃ to 200 ℃	0.8 ℃ to 1.2 ℃

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Construction materials testing equipment (cont'd)		
- Flow table for determination of flow of fresh concrete	Verification in accordance with in-house method CAL-FLOW-TABLE for the dimensional and mass requirements as specified in CS 1: 1990 Vol. 2 (Amd. 1206) App. E1; CS 1: 2010 Vol. 1 App. A15.1; or BS EN 12350-5: 2000 Cl. 4.1	
	Dimensions of metal plate: 700 mm x 700 mm	1 mm
	Thickness of metal plate: minimum 2 mm	0.06 mm
	Diameter of central circle: 210 mm	0.06 mm
	Fall height: 40 mm	0.06 mm
	Mass: 16 kg	5 g
- Friction tester (TRRL type portable skid- resistance tester)	Verification in accordance with in-house method CAL-FRICTION-TESTER for the dimensional and mass requirements as specified in BS EN 1097-8: 2000 Cl. 7.3.2.1, 7.3.2.6, 7.3.2.8 to 7.3.2.11 and Annex D	
	Dimensions: 10 mm to 600 mm	1 mm
	Mass: 0.01 kg to 20 kg	0.6 g
	Movement: 0.5 mm to 200 mm	0.07 mm
	Static force/deflection: 21.0 N/mm to 23.4 N/mm	0.007 N/mm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Construction materials testing equipment (cont'd)		
- Heat soak oven	On-site calibration in accordance with BS EN 14179-1: 2005 Annex A for the temperature and time as listed in Section 18(e) of Buildings Department APP-37 (May 2012)	
	Temperature: 0 ℃ to 320 ℃	2.0 ℃
	Time: 2 hrs to 20 hrs	8.2 min
	On-site calibration in accordance with BS EN 14179-1: 2016 Annex A for the temperature and time as listed in Section 9.3.1(5) & section 9.3.2 of Buildings Department Code of Practice for Structural Use of Glass 2018	
	Temperature: 0 ℃ to 290℃	2.0 ℃
	Time: 2 hrs to 20 hrs	8.2 min
- Metal mould for determination of flow of fresh concrete	Verification in accordance with in-house method CAL-FLOW-MOULD for the dimensional requirements as specified in CS 1: 1990: Vol.2 (Amd. 1206) App. E2; CS 1: 2010: Vol 1. App. A15.2; or BS EN 12350-5: 2000 Cl. 4.2	
	Internal diameter of top: 130 mm	0.5 mm
	Internal diameter of base: 200 mm	0.5 mm
	Height: 200 mm	0.5 mm
	Thickness of metal: 1.5 mm	0.03 mm
- Mixer	On-site calibration in accordance with in-house method CAL-MIXER-SPD for rotation speed of mixing blade and mixing bowl over the following range :	
	100 rpm to 2000 rpm	1.2 rpm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Construction materials testing equipment (cont'd)		
- Rebound hammer	Calibration for rebound value in accordance with in-house method CAL-HAM using an anvil complying with BS EN 12504-2: 2001 Cl. 4.2	0.7 rebound count
	Calibration for the friction of rider in accordance with in-house method CAL-HAM over the following range :	
	0.49 N to 0.78 N	0.016 N
- Rolling type straightedge for road surface irregularity measurement	Calibration for depression in accordance with in-house method CAL-ROLLING over the following range :	
	1 mm to 10 mm	0.22 mm
- Slump cone	Verification in accordance with in-house method CAL-SLUMP-CONE for the dimensional requirements as specified in CS 1: 1990: Vol. 1 App. A4; or CS 1: 2010: Vol. 1 App. A5	
	Height: 300 mm	0.6 mm
	Wall thickness: minimum 1.5 mm	0.07 mm
	Internal diameter of base: 200 mm	0.07 mm
	Internal diameter of top: 100 mm	0.07 mm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Construction materials testing equipment (cont'd)		
- Tamping bar for determination of flow of fresh concrete	Verification in accordance with in-house method CAL-FLOW-TAMPBAR for the dimensional requirements as specified in CS1: 1990: Vol. 2 (Amd. 1206) App. E3; CS1: 2010: Vol.1 App. A15.3; or BS EN 12350-5: 2000 Cl. 4.3	
	Dimensions of square section: 40 mm x 40 mm	0.02 mm
	Length of square section: 200 mm	1 mm
	Length of circular handle: 120 mm to 150 mm	1 mm
- Tamping rod	Verification in accordance with in-house method CAL-TAMP-ROD for the dimensional requirements as specified in CS1: 1990: Vol. 1 (Amd. 1102) App. A5; or CS1: 2010: Vol. 1 App. A6	
	Diameter: 16 mm	0.02 mm
	Length: 600 mm	1 mm
- Test sieve aperture size greater than 4 mm	Verification in accordance with in-house method CAL-SIEVE-PER for the dimensional requirements as specified in BS 410: 1986	
	Aperture size: 4 mm to 125 mm	0.03 mm
	Pitch of hole: 5.8 mm to 160 mm	0.03 mm
	Bridge width: 0.9 mm to 17.5 mm	0.03 mm
	Plate thickness: 0.8 mm to 4.0 mm	0.03 mm
	Verification in accordance with in-house method CAL-SIEVE-PER for the dimensional requirements as specified in BS 410-2: 2000; or ISO 3310-2: 1999	
	Hole: 4 mm to 125 mm	0.03 mm
	Pitch: 4.9 mm to 184 mm	0.03 mm
	Plate thickness: 0.8 mm to 3.5 mm	0.03 mm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Electrical measurements		
- Time and frequency measuring instruments		
- Stop watch / Timer	Calibration for time in accordance with in-house method CAL-TIMER over the following ranges :	
	1 s to 1800 s	0.1 s
	above 1800 s to 3600 s	2 s

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Length and related measurements		
- Angle measurements		
- Try square	Calibration for deviation from squareness in accordance with in-house method CAL-SQUARE over the following ranges :	
- Square with inner length of blade from 25 mm to 160 mm	20 μm to 1000 μm	9 μm
- Square with inner length of blade above 160 mm to 600 mm	20 μm to 1000 μm	25 μm
- Form measurements		
- Straight edge	Calibration for straightness of working area in accordance with in-house method CAL-STR-EDGE over the following range :	
- Length of straight edge from 50 mm to 600 mm	20 μm to 1000 μm	11 μm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Length and related measurements (cont'd)		
- Length measurements		
- Calliper	Calibration for length in accordance with in-house method CAL-CALLIPER-DVR over the following ranges :	
- Dial type:	External measurement: 0.5 mm to 600 mm Internal measurement: 10 mm to 600 mm	25 µm 41 µm
- Digital type :	External measurement: 0.5 mm to 600 mm Internal measurement: 10 mm to 600 mm	15 µm 35 µm
- Vernier type :	External measurement: 0.5 mm to 600 mm Internal measurement: 10 mm to 600 mm	25 µm 41 µm
- Coating thickness measuring device	Calibration for thickness in accordance with in-house method CAL-ELCO over the following ranges :	
	12.5 µm to 50 µm above 50 µm to 1.0 mm above 1.0 mm to 1.5 mm	1.4 µm 2.2 µm 2.6 µm
- Dial gauge	Calibration for length using gauge blocks in accordance with BS 907: 2008 Cl. 9 and Annex B over the following ranges :	
	0.002 mm to 13 mm above 13 mm to 50 mm above 50 mm to 80 mm	1.4 µm 6.2 µm 6.3 µm
	Calibration for length using micrometer head in accordance with BS 907: 2008 Cl. 9 and Annex B over the following ranges :	
	0.002 mm to 5 mm above 5 mm to 80 mm	7 µm 9 µm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Length and related measurements (cont'd)		
- Length measurements (cont'd)		
- Displacement transducer	Calibration for length in accordance with GEOSPEC 3: 2001 App. A Cl. A.3.4 over the following ranges :	
	0.5 mm to 13 mm	1.4 μm
	above 13 mm to 25 mm	1.9 μm
	above 25 mm to 50 mm	1.9 μm
- Linear variable displacement transducer (LVDT)	Calibration for length in accordance with in-house method CAL-LIN-DISP over the following ranges :	
	0.5 mm to 10 mm	1.4 μm
	above 10 mm to 100 mm	8 μm
- Engineer's steel measuring rule	Calibration for length in accordance with in-house method CAL-ST-RULE over the following range :	
	0.01 m to 2 m	0.3 mm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Length and related measurements (cont'd)		
- Length measurements (cont'd)		
- Extensometer	On-site calibration for displacement using calibration rig and verification of grade in accordance with BS 3846: 1970 (excluding the determination of calibration factor) over the following ranges :	
- Grade A with gauge length from 100 mm to 500 mm	0.003 mm to 25 mm	0.7 μm to 20 μm
- Grade B with gauge length from 50 mm to 500 mm	0.003 mm to 25 mm	0.7 μm to 20 μm
- Grade C with gauge length from 25 mm to 500 mm	0.003 mm to 25 mm	0.7 μm to 20 μm
- Grade D with gauge length from 25 mm to 500 mm	0.003 mm to 25 mm	0.7 μm to 20 μm
- Extensometer - Class 0.5 with gauge length from 25 mm to 500 mm	On-site calibration for displacement using calibration rig and verification of class in accordance with BS EN ISO 9513: 2012 + Cor. May 2013; ISO 9513: 2012 + Cor. 1: 2013; BS EN ISO 9513: 2002; over the following range :	
	0.003 mm to 50 mm	0.7 μm to 20 μm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related measurements (cont'd)		
- Length measurements (cont'd)		
- External micrometer	Calibration for length in accordance with BS 870: 2008 Annex. A Cl. A.6 & A.7 over the following range : 0.5 mm to 100 mm	 2 μm
- Feeler gauge	Calibration for mean thickness in accordance with in-house method CAL-FEELER-ACC over the following range : 0.03 mm to 5.00 mm	 3 μm
- Levelling staff	Calibration for length in accordance with in-house method CAL-LEVEL-STAFF over the following range : 0.1 m to 5 m	 1.0 mm
- Measuring tape	Calibration for length in accordance with in-house method CAL-MTAPE over the following range : 0.1 m to 150 m	 0.3 mm per 5 m
- Microscope	Calibration for length in accordance with in-house method CAL-MICROSCOPE over the following range : 0.1 mm to 8 mm	 13 μm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related measurements (cont'd)		
- Length measurements (cont'd)		
- Plastic calibration foil	Calibration for thickness in accordance with in-house method CAL-ELCO-FOILS over the following ranges :	
	12.5 μm to 50 μm	3.0 μm
	above 50 μm to 1000 μm	3.4 μm
	above 1000 μm to 1500 μm	3.9 μm
- Steel measuring tape	Calibration for length in accordance with in-house method CAL-MTAPE over the following range :	
	0.1 m to 150 m	0.3 mm per 5 m

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related measurements		
- Force measurements		
- Compression testing machine	On-site calibration for compressive force using Grade 0.5 / Grade 1.0 load cells and verification for grade in accordance with BS 1610: Part 1: 1985 (Amd. 6175); or BS 1610: Part 1: 1992 (constant true force method or indicated force method for above two standards) over the following range :	
	0.05 kN to 3000 kN	0.04 % to 1.2 % of reading
	On-site calibration for compressive force using Class 0.5/ Class 1 load cells and verification for class in accordance with BS EN ISO 7500-1: 2018; or ISO 7500-1: 2018 (constant true force method or indicated force method for the above two standards) over the following range :	
	0.05 kN to 3000 kN	0.04 % to 1.2 % of reading
- Concrete testing machine	On-site calibration for compressive force using Class 0.5/ Class 1 load cells and verification for class in accordance with BS EN 12390-4: 2000 Annex B (constant true force method or indicated force method) over the following range :	
	0.05 kN to 3000 kN	0.04 % to 1.2 % of reading

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related measurements		
- Force measurements (cont'd)		
- Concrete testing machine (cont'd)	On-site calibration for strain ratio by performing strain gauged column and proving test (stability test) in accordance with BS 1881: Part 115: 1986 (Amd. 6536) App. A; CS 1: 1990: Vol. 2 App. D; BS EN 12390-4: 2000 Annex A & Table 3; or CS 1: 2010: Vol. 2 App. D over the following range of compressive force:	
	200 kN to 2000 kN	0.03 strain ratio
- Force measuring device	Calibration for compressive force in accordance with GEOSPEC 3: 2001 App. A Cl. A.3.1 over the following ranges :	
	0.05 kN to 1 kN	2 % to 3 % of reading
	above 1 kN to 20 kN	1 % of reading
	above 20 kN to 100 kN	0.3 % of reading
	Calibration for compressive force in accordance with in-house method CAL-FMD over the following ranges :	
	0.05 kN to 0.15 kN	1.3 % of reading
	above 0.15 kN to 0.45 kN	1.0 % of reading
	above 0.45 kN to 100 kN	0.3 % of reading
	above 100 kN to 14000 kN	0.6 % of reading

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related measurements (cont'd)		
- Force measurements (cont'd)		
- Force measuring device for pile tests - load cell	Calibration for compressive force in accordance with in-house method CAL-LOAD-BSEN over the following ranges :	
	500 kN to 1000 kN	1.9 % of reading
	above 1000 kN to 2000 kN	1.4 % of reading
	above 2000 kN to 10000 kN	1.0 % of reading
- Force measuring device for pile tests - load cell with hydraulic jack	Calibration for compressive force in accordance with in-house method CAL-FMD+JACK over the following ranges :	
	500 kN to 1000 kN	1.0 % of reading
	above 1000 kN to 14000 kN	0.6 % of reading
- Force measuring device for site tests - load cell	Calibration for compressive force in accordance with in-house method CAL-LOAD-BSEN (SML) over the following ranges :	
	2 kN to 50 kN	2.0 % of reading
	above 50 kN to 200 kN	1.5 % of reading
	above 200 kN to 1000 kN	1.0 % of reading
- Force measuring device for site tests - load cell with hydraulic jack	Calibration for compressive force in accordance with in-house method CAL-LOAD+JACK(SML) over the following ranges :	
	2 kN to 50 kN	2.0 % of reading
	above 50 kN to 200 kN	1.5 % of reading
	above 200 kN to 1000 kN	1.0 % of reading

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related measurements (cont'd)		
- Force measurements (cont'd)		
- Pull out tester	Calibration for pull out force in accordance with in-house method CAL-PULL-OT over the following ranges :	
	0.05 kN to 0.2 kN	2 % of reading
	above 0.2 kN to 2 kN	1 % of reading
	above 2 kN to 100 kN	0.5 % of reading
- Static uniaxial force testing machine (compression mode)	On-site calibration for compressive force using Class 0.5/ Class 1 load cells and verification of class in accordance with BS EN ISO 7500-1: 2004; BS EN ISO 7500-1: 2018; or ISO 7500-1: 2018 (constant true force method or indicated force method for above three standards) over the following range :	
	0.05 kN to 3000 kN	0.04 % to 2 % of reading
- Static uniaxial force testing machine (tension mode)	On-site calibration for tension force using Class 0.5/ Class 1 load cells and verification of class in accordance with BS EN ISO 7500-1: 2004; BS EN ISO 7500-1: 2018; or ISO 7500-1: 2018 (constant true force method or indicated force method for above three standards) over the following range :	
	0.2 kN to 2000 kN	0.3 % of reading

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related measurements (cont'd)		
- Force measurements (cont'd)		
- Universal testing machine (compression mode)	On-site calibration for compressive force using Grade 0.5 / Grade 1.0 load cells and verification of grade in accordance with BS 1610: Part 1: 1985 (Amd. 6175); or BS 1610: Part 1: 1992 (constant true force method or indicated force method for above two standards) over the following range :	
	0.05 kN to 3000 kN	0.04 % to 1.2 % of reading
- Universal testing machine (tension mode)	On-site calibration for tension force using Grade 0.5/Grade 1.0 load cells and verification of grade in accordance with BS 1610: Part 1: 1985 (Amd. 6175) (constant true force method or indicated force method) over the following range :	
	0.2 kN to 2000 kN	0.3 % of reading

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
- Hardness measurements		
- Hardness testing machine (Brinell hardness)	On-site indirect calibration for Brinell hardness scales in accordance with BS EN ISO 6506- 2: 1999 Cl. 5 and Annex A; BS EN ISO 6506-2: 2005 Cl. 5; at the following specific values :	
	HB 187.5	1.6 % of reading
	HB 250	1.2 % of reading
	HB 750	1.2 % of reading
	HB 1000	1.4 % of reading
	HB 3000	1.2 % of reading
- Hardness testing machine (Rockwell hardness)	On-site indirect calibration for Rockwell hardness scales in accordance with BS EN ISO 6508-2: 1999 Cl. 5; BS EN ISO 6508-2: 2005 Cl. 5; OR at the following ranges :	
	55 HRA to 83 HRA	0.8 HRA
	40 HRB to 94 HRB	1.2 HRB
	26 HRC to 63 HRC	0.7 HRC
- Hardness testing machine (Vickers hardness)	On-site indirect calibration for Vickers hardness scales in accordance with BS EN ISO 6507-2: 1998 Cl. 5 and Annex A; BS EN ISO 6507-2: 2005 Cl. 5; at the following ranges :	
	223 HV 5 to 761 HV 5	2.1 % of reading
	187 HV 10 to 733 HV 10	2.2 % of reading
	166 HV 30 to 763 HV 30	2.1 % of reading

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related measurements (cont'd)		
Mass measurements		
- Balance	Calibration for mass in accordance with in-house method CAL-BAL-NMI using OIML Class F1 weights from 1 mg to 100 kg over the following range :	
	1 mg to 100 kg	0.6 mg to 1.1 g
	On-site calibration for mass in accordance with in-house method CAL-BAL-NMI using OIML Class F1 weights from 1 mg to 100 kg over the following range :	
	1 mg to 100 kg	0.6 mg to 1.1 g
- Weight	Calibration for mass in accordance with in-house method CAL-WEIGHTS-NMI over the following ranges :	
	1 mg to 20 g	0.06 mg to 0.1 mg
	above 20 g to 100 g	0.2 mg
	above 100 g to 1 kg	1.5 mg to 2.6 mg
	above 1 kg to 5 kg	12 mg to 16 mg
	above 5 kg to 20 kg	1.1 g

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related measurements (cont'd)		
- Pressure measurements		
- Pressure gauge and pressure transducer (bourdon tube types or transducer types)	Calibration for gauge pressure in accordance with in-house method CAL-PRESSURE; or GEOSPEC 3: 2001 App. A Cl. A.3.2 using reference pressure transducer with water as pressure medium over the following range :	
	20 kPa to 1000 kPa	0.2 % FS
- Bourdon tube pressure gauge	Calibration for gauge pressure in accordance with BS 1780: 1985 Cl. 7; or BS EN 837-1: 1998 Cl. 10.2 using dead-weight tester with nitrogen gas as pressure medium over the following ranges :	
	20 kPa to 1000 kPa	0.3 % FS
	above 1000 kPa to 3500 kPa	0.3 % FS
	Calibration of gauge pressure in accordance with BS 1780: 1985 Cl. 7; or BS EN 837-1: 1998 Cl. 10.2 using reference pressure transducer with water as pressure medium over the following range :	
	20 kPa to 1000 kPa	0.2 % FS

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related measurements (cont'd)		
- Pressure measurements (cont'd)		
- Pressure transducer	Calibration of gauge pressure in accordance with in-house method CAL-PRESSURE-1780 using dead-weight tester with nitrogen gas as pressure medium over the following ranges :	
	20 kPa to 1000 kPa	0.3 % FS
	above 1000 kPa to 3500 kPa	0.3 % FS
	Calibration of gauge pressure in accordance with in-house method CAL-PRESSURE-1780 using reference pressure transducer with water as pressure medium over the following range :	
	20 kPa to 1000 kPa	0.2 % FS
- Vacuum pressure gauge	Calibration of pressure in accordance with in-house method CAL-VAC over the following range :	
	0 kPa to to 101 kPa	1.1 kPa

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related measurements (cont'd)		
- Volume measurements		
- Volume change measuring device (burrette type or transducer type)	Calibration for volume change in accordance with in-house method CAL-VOL-CHG; or GEOSPEC 3: 2001 App. A Cl. A.3.3 over the following range :	
	1 ml to 90 ml	0.2 ml
- Volumetric glassware	Calibration for contained capacity with temperature corrections specified in BS 1797: 1987 in accordance with in-house method CAL-MEACON-VOL over the following range :	
	1 ml to 1000 ml	0.14 ml to 7 ml

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Temperature and humidity measurements		
- Temperature measurements		
- Dial thermometer	Calibration for temperature using dry well calibrator as the medium in accordance with in-house method CAL-THERMOMETER over the following ranges :	
	-15 ℃ to 100 ℃	0.7 ℃
	above 100 ℃ to 200 ℃	3.0 ℃
	above 200 ℃ to 320 ℃	6.1 ℃
	Calibration for temperature using water bath as the medium in accordance with in-house method CAL-THERMOMETER over the following ranges :	
	8 ℃ to 85 ℃	0.6 ℃
- Digital thermometer	Calibration for temperature using dry well calibrator as the medium in accordance with in-house method CAL-THERMOMETER over the following ranges :	
	-15 ℃ to 100 ℃	0.3 ℃
	above 100 ℃ to 200 ℃	0.7 ℃
	above 200 ℃ to 320 ℃	2.0 ℃
	Calibration for temperature using water bath as the medium in accordance with in-house method CAL-THERMOMETER over the following ranges :	
	8 ℃ to 85 ℃	0.15 ℃

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Temperature and humidity measurements (cont'd)		
- Temperature measurements (cont'd)		
- Liquid in glass thermometer (LIGT)	Calibration for temperature using dry well calibrator as the medium in accordance with in-house method CAL-THERMOMETER over the following ranges :	
	-15 ℃ to 100 ℃	0.32 ℃
	above 100 ℃ to 200 ℃	0.72 ℃
	Calibration for temperature using water bath as the medium in accordance with in-house method CAL-THERMOMETER over the following ranges :	
	8 ℃ to 85 ℃	0.16 ℃
- Digital thermometer with PRT sensor	Calibration for temperature using dry well calibrator as the medium in accordance with in-house method CAL-THERMOMETER over the following ranges :	
	-15 ℃ to 100 ℃	0.3 ℃
	above 100 ℃ to 200 ℃	0.7 ℃
	above 200 ℃ to 320 ℃	2.0 ℃

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Temperature and humidity measurements (cont'd)		
- Temperature measurements (cont'd)		
- Temperature recorder with sensors	Calibration for temperature using dry well calibrator as the medium in accordance with in-house method CAL-THERMOMETER over the following ranges :	
	-15 ℃ to 100 ℃	0.4 ℃
	above 100 ℃ to 200 ℃	0.8 ℃
	Calibration for temperature using water bath as the medium in accordance with in-house method CAL-THERMOMETER over the following ranges :	
	8 ℃ to 85 ℃	0.32 ℃
- Digital thermometer with thermocouple sensor	Calibration for temperature using dry well calibrator as the medium in accordance with in-house method CAL-THERMOMETER over the following ranges :	
	-15 ℃ to 100 ℃	0.32 ℃
	above 100 ℃ to 200 ℃	0.70 ℃
	above 200 ℃ to 320 ℃	2.0 ℃
	Calibration for temperature using water bath as the medium in accordance with in-house method CAL-THERMOMETER over the following ranges :	
	8 ℃ to 85 ℃	0.24 ℃

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Temperature and humidity measurements (cont'd)		
- Humidity measurements		
- Hygrometer / psychrometer	Calibration of humidity and temperature using conditioned chamber in accordance with in-house method CAL-THER-HYGRO over the following ranges :	
	30 % RH to 95 % RH 23 ± 2 ºC	4.4 % RH 1.0 ºC
- Conditioning chamber	On-site calibration of humidity and temperature in accordance with in-house method CAL-WKN-CHAMBER over the following range :	
	30 % RH to 95 % RH 23 ± 2 ºC	3.6% RH 0.8 ºC

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Adhesive	Pull-off test of repair mortar	Hong Kong Housing Authority Materials Testing Services (2024/2027) for Maintenance and Building Materials Specification Part D Cl. 2.1.15 Method 1
	Pull-off test of tiles	Hong Kong Housing Authority Materials Testing Services (2024/2027) for Maintenance and Building Materials Specification Part D Cl. 7.11 In-house method PULL.TILE
	Pull-off test of concrete	Hong Kong Housing Authority Materials Testing Services (2024/2027) for Maintenance and Building Materials Specification Part D Cl. 4.1.3
Aggregates	Sampling	BS 812: Part 102: 1989 CS3: 2013 Section 8
	Particle size distribution	BS 812: Section 103.1: 1985 + Amd. 6003 (by sieve analysis) CS3: 2013 + Amd. 1/2013 Section 10 (by sieve analysis)
	Flakiness index	BS 812: Section 105.1: 1989 CS3: 2013 Section 11
	Elongation index	BS 812: Section 105.2: 1990 CS3: 2013 Section 12
	Methylene blue value	CS3: 2013 Section 13
	Los Angeles value	CS3: 2013 Section 14
	Aggregate impact value	BS 812: Part 112: 1990 + Amd. 8772 CS3: 2013 Section 15
	Ten per cent fines value	BS 812: Part 111: 1990 CS3: 2013 Section 16
	Particle densities and water absorption	BS 812: Part 2: 1995 + Amd. 9195 & 10379 CS3: 2013 Section 17
	Moisture content	BS 812: Part 109: 1990 (by oven drying method) CS3: 2013 Section 18 (by oven drying method)

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Aggregates (cont'd)	Soundness	BS 812: Part 121: 1989 CS3: 2013 Section 19
	Drying shrinkage	CS3: 2013 Section 20
	Effect of organic substances by mortar method	CS3: 2013 + Amd. 1/2016 Section 22
	Alkali silica reaction potential by ultra-accelerated mortar-bar test	ASTM C1260-94 CS1: 2010 + Amd. 1/2013 Section 22 RILEM TC 106-2: 2000
	Aggregate crushing value	BS 812: Part 110: 1990
	Bulk density, voids and bulking	BS 812: Part 2: 1995
	Clay, silt and dust content	BS 812: Part 1: 1975 + Amd. 4875 & 6587 (by decantation method)
	Compacting fraction value of aggregates for granular bed	General Specification for Civil Engineering Works (2006) Vol. 1 App. 5.2
	Foreign material content in recycled aggregates	Building Research Establishment Digest 433 (Nov 1998)
	Resistance to degradation of small size coarse aggregate by abrasion and impact in the Los Angeles Machine	ASTM C131-81 with modification ASTM C131-96 with modification
	Resistance to degradation of large size coarse aggregate by abrasion and impact in the Los Angeles Machine	ASTM C535-81 with modification ASTM C535-96 with modification
	Shell content in coarse aggregates	BS 812: Part 106: 1985

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Bituminous materials	Bitumen content of bituminous paving materials by ignition method	ASTM D6307-98 ASTM D6307-05 ASTM D6307-16
	Bulk specific gravity and density of compacted bituminous mixtures using automatic vacuum sealing method	ASTM D6752/D6752M-11 with modification ASTM D6752/D6752M-18 with modification
	Bulk specific gravity and density of non-absorptive compacted bituminous mixtures	ASTM D2726-96a ASTM D2726/D2726M-14 with modification
	Mechanical size analysis of extracted aggregate	ASTM D5444-15 with modification
	Percent air voids in compacted dense bituminous paving mixtures	ASTM D3203-94 ASTM D3203-11 ASTM D3203/D3203M-17
	Polymer modified binder content of bituminous paving materials by combination of both centrifuge and ignition method	ASTM D2172-95 Method A & ASTM D6307-98 ASTM D2172-95 Method A & ASTM D6307-05 ASTM D2172/D2172M-17 Method A & ASTM D6307-16 Particular Specification for Highways Department Guidance Notes on Road Surface Requirements for Expressways and High Speed Roads RD/GD/032 (Jun 2007) App. B
	Quantitative extraction of bitumen from bituminous paving mixtures	ASTM D2172-95 (Method A using ashing method) with modifications ASTM D2172/D2172M-17 (Method A using ashing method) with modifications
	Sieve analysis of fine and coarse aggregates and materials finer than 75 micron sieve in mineral aggregates by washing	ASTM C117-95 ASTM C117-13 ASTM C136-96a with modifications ASTM C136/C136M-14 with modifications
	Theoretical maximum specific gravity and density of bituminous paving mixtures	ASTM D2041-95 (Weighing in water method using type A container) with modifications ASTM D2041/D2041M-11 (Weighing in water method) with modifications

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Bituminous materials (cont'd)	Thickness or height of compacted asphalt mixture specimens	ASTM D3549-93a excluding Cl. 6.2 & 6.3 ASTM D3549/D3549M-17 excluding Cl. 7.3 & 7.4
	Viscosity of asphalt binder using rotational viscometer	AASHTO T316-06 with modification AASHTO T316-13 (2017) with modification
Blocks & Bricks	Bending strength and breaking load of concrete paving flags	BS EN 1339: 2003 Annex F
	Compressive strength of paving blocks	General Specification for Civil Engineering Works (2006) Vol. 1 App. 11.1 General Specification for Civil Engineering Works (2020) Vol. 1 App. 11.1
	Compressive strength of interlocking blocks	Hong Kong Housing Authority Specification (2022) EXT3.T110.9 - T160.9
	Compressive strength of masonry units	BS EN 772-1: 2011 + A1: 2015 excluding Cl. 7.3.4
	Compressive strength of precast concrete masonry units	BS 6073: Part 1: 1981 App. B
	Compressive strength of precast concrete paving blocks	BS 6717: Part 1: 1993 Annex B
	Compressive strength of clay bricks	BS 3921: 1985 App. D
	Dimensions of clay bricks	BS 3921: 1985 App. A
	Dimensions of clay pavers	BS EN 1344: 2002 Annex B
	Dimensions of clay and calcium silicate pavers	BS 6677: Part 1: 1986 App. A & C
	Dimensions of concrete masonry units	BS 6073: Part 1: 1981 App. A BS EN 772-16: 2011
	Dimensions of concrete paving blocks	BS 6717: 2001 Annex B
	Dimension of masonry units	BS EN 772-16: 2011

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Blocks & Bricks (cont'd)	Net and gross dry density of masonry units	BS EN 772-13: 2000
	Skid resistance value of clay and calcium silicate pavers	BS 6677: Part 1: 1986 App. E
	Skid resistance test of clay and calcium silicate pavers	ASTM E303-93 (Reapproved 1998)
	Transverse breaking load of clay and calcium silicate pavers	BS 6677: Part 1: 1986 App. D
	Transverse breaking load of clay pavers	BS EN 1344: 2002 Annex D
	Transverse strength of precast concrete masonry units	BS 6073: Part 1: 1981 App. C
	Unpolished slip/skid resistance value of clay pavers	BS EN 1344: 2002 Annex F
	Water absorption of masonry units, segmental pavers and flags	AS/NZS 4456.14: 1997 AS/NZS 4456.14: 2003
	Water absorption of concrete flags, kerbs, channels and edgings	BS 7263: Part 1: 1994 Annex C
	Water absorption of clay bricks	BS 3921: 1985 App. E
	Water absorption of aggregate concrete, autoclaved aerated concrete, manufactured stone and natural stone masonry units due to capillary action and the initial rate of water absorption of clay masonry units	BS EN 772-11: 2011

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Cement & Portland pulverised fuel ash cement (PPFAC)	Sampling	BS EN 196-7: 2007
	Compressive strength of broken mortar prisms in the force range 4 kN - 250 kN	BS EN 196-1: 2005 BS EN 196-1: 2016
	Density	BS EN 196-6: 2010 Annex NC BS EN 196-6: 2018 Annex NC
	Fineness	BS EN 196-6: 2010 (by Blaine method) BS EN 196-6: 2018 (by Blaine method)
	Flexural strength of mortar prisms	BS EN 196-1: 2005 BS EN 196-1: 2016
	Setting times	ASTM C191-92 BS EN 196-3: 2005 + A1: 2008 BS EN 196-3: 2016
	Soundness	BS EN 196-3: 2005 + A1: 2008 BS EN 196-3: 2016
	Standard consistence	BS EN 196-3: 2005 + A1: 2008 BS EN 196-3: 2016
Cement stabilised soil	Unconfined compressive strength of cement stabilised soil cores (with or without capping)	Interim Guidelines on Testing of Unconfined Compressive Strength of Cement Stabilised Soil Cores in Hong Kong (Oct 2017) App. B published by Geotechnical Division of The Hong Kong Institution of Engineers

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Coating	Dry-film coating thickness by wedge cut method	ASTM D4138-07a (Reapproved 2022) Procedure A BS EN 2808: 2019 Method 6B
	Coating thickness by magnetic method	BS EN ISO 2178: 1995
	Pull-off test of coating	In-house Method PULL.COAT In-house Method PULL-COAT-SQ&REC ASTM D4541-02 Test Method C & Method E ASTM D4541-17 Test Method C & Method E ASTM D7234-19 BS 3900-E10: 2003 Cl. 9.4.2 BS EN ISO 4624: 2003 Cl. 9.4.2
	Mass per unit area of hot dip galvanized coating by gravimetric method	BS 729: 1971 App. A BS 2989: 1991 App. A BS EN 10346: 2015 Annex A BS EN ISO 1460: 1995 BS EN ISO 1460: 2020 in conjunction with following specification(s): BS 2989: 1991 Cl. 3.3 BS EN 10346: 201 5 Cl. 8.5.5.1

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Concrete	Sampling fresh concrete on site	CS1: 2010 + Amd. 1/2017 Section 1
	Slump of fresh concrete	CS1: 2010 + Amd. 1/2017 Section 2 Part I
	Compacting factor of fresh concrete	CS1: 2010 Section 2 Part II
	Flow table test	CS1: 2010 Section 2 Part IV
	Slump flow test	CS1: 2010 Section 2 Part V
	Stiffening time of fresh concrete	CS1: 2010 + Amd. 1/2013 Section 3
	Density of compacted fresh concrete	CS1: 2010 Section 5
	Air content of fresh concrete	CS1: 2010 Section 6
	Making test cubes from fresh concrete	CS1: 2010 Section 7
	Making test beams from fresh concrete	CS1: 2010 Section 8
	Making test cylinders from fresh concrete	CS1: 2010 + Amd. 1/2013 Section 9
	Curing of test specimens	CS1: 2010 Section 10
	Mixing and sampling of fresh concrete	CS1: 2010 Section 11
	Compressive strength of concrete cubes in the force range 10 kN - 3000 kN	CS1: 2010 + Amd. 1/2013 Section 12
	Tensile splitting strength of cylindrical specimens	CS1: 2010 + Amd. 1/2013 Section 13
	Flexural strength of concete test beams	CS1: 2010 Section 14
	Obtaining core samples	CS1: 2010 + Amd. 1/2013 Section 15
	Compressive strength of concrete cores in the force range 10 kN - 3000 kN	CS1: 2010 + Amd. 1/2013 Section 15
	Density of hardened concrete	CS1: 2010 Section 16
	Depth of penetration of water under presssure	CS1: 2010 Section 18

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Concrete (cont'd)	Concrete's ability to resist chloride ion penetration	AASHTO T277-07 ASTM C1202-05 ASTM C1202-07 CS1: 2010 Section 19
	Assessment of the cement, aggregates and water contents of fresh concrete	DD 83: 1983 Sections 2 & 3(Pressure filter Sandberg method)
	Bleeding test	ASTM C232/C232M-21
	Estimating concrete strength by the maturity method	ASTM C1074-19e1 Cl. 6, 7, 8.2, 8.5 -8.6, 8.8, 9.1-9.4
	Flexural toughness and first-crack strength of fiber-reinforced concrete	ASTM C1018-94b ASTM C1018-97
	Temperature measurement of the fresh concrete	BS 5328: Part 4: 1990 Cl. 3.4(b) in conjunction with the following specification: BS EN 206: 2013 + A2: 2021 Cl. 5.2.9
	Temperature monitoring of fresh concrete	In-house method SITE-CON-TEMP In-house method (HY-MON)
	Water absorption	BS 1881: Part 122: 2011
	Monitoring of setting time of fresh concrete	Hong Kong Housing Authority Materials Testing Services (2022/2024) for Construction Materials Specification Part D Cl. 1.3.9
	Removal of concrete cover to expose reinforcement	Hong Kong Housing Authority Materials Testing Services (2024/2027) for Maintenance and Building Materials Specification Part D Cl. 4.2.1
	Reinforcement survey	Hong Kong Housing Authority Materials Testing Services (2024/2027) for Maintenance and Building Materials Specification Part D Cl. 4.3.13
	Crack survey	Hong Kong Housing Authority Materials Testing Services (2024/2027) for Maintenance and Building Materials Specification Part D Cl. 4.3.14

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Concrete (cont'd)	Dry cutting of mini-cores	Hong Kong Housing Authority Materials Testing Services (2024/2027) for Maintenance and Building Materials Specification Part D Cl. 6.2
	Cutting of stitch cores	Hong Kong Housing Authority Materials Testing Services (2024/2027) for Maintenance and Building Materials Specification Part D Cl. 6.3
	Obtaining drilling powder samples	Hong Kong Housing Authority Materials Testing Services (2024/2027) for Maintenance and Building Materials Specification Part D Cl. 6.4
	Suitability of water for making concrete (strength and setting time)	BS EN 196-1: 1995 BS EN 196-3: 1995 in conjunction with the following specification: BS EN 1008: 2002 Cl. 4.4

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Concrete (diagnostic)	Carbonation accelerating test	GB/T 50082-2009 Cl. 11 with modification
	Carbonation test	BS EN 14630: 2006 Building Research Establishment Information Paper IP 6/81 Hong Kong Housing Authority Materials Testing Services (2024/2027) for Maintenance & Building Materials Specification Part D Cl. 4.3.1 (Method 2)
	Covermeter survey	BS 1881: Part 204: 1988
	Half-cell potential measurement	ASTM C876-91 (Method A and B for Pre-Wetting) ASTM C876-09 (Method A and B for Pre-Wetting) ASTM C876-15
	Infrared thermography for detection of building surface defects	Hong Kong Concrete Institute TM1 Issue 2 (2022) + Amd. 1/2024
	Infrared thermography survey for detection of thermal anomalies of exposed water-proof membranes/coatings	Hong Kong Concrete Institute TM4 Issue 1 (2024)
	Resistivity measurement	BS 1881: Part 201: 1986 Cl. 2.3
	Spark test for basement waterproofing	Hong Kong Housing Authority Materials Testing Services (2024/2027) for Maintenance & Building Materials Specification Part D Cl. 10.6
	Surface hardness measurement	BS 1881: Part 202: 1986 BS EN 12504-2: 2012 BS EN 12504-2: 2021
	Surface penetration radar survey for determination of concrete cover and distribution of steel reinforcement	Hong Kong Concrete Institute TM2 Issue 1 (2009)
	Ultrasonic pulse velocity measurement (direct & semi-drect transmissions)	ASTM C597-16 BS 1881: 203: 1986 BS EN 12504-4: 2004 BS EN 12504-4: 2021

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Dimension stones	Absorption and bulk specific gravity	ASTM C97-18
	Compressive strength	ASTM C170-24a
	Flexural strength	ASTM C880-24
	Modulus of rupture	ASTM C99-24
	Strength of individual stone anchorages	ASTM C1354-22
Doors	Dimensional accuracy and squareness of door leaves	BS 5278: 1976 in conjunction with the following specification: Hong Kong Housing Authority Specification Library (2018) COM5.M040.A(2)(f) Test No. 1 Hong Kong Housing Authority Specification Library (2022) COM5.M040.9(2)(f) Test No. 1
	General flatness and evenness of door leaves	BS 5277: 1976 in conjunction with the following specification: Hong Kong Housing Authority Specification Library (2018) COM5.M040.A(2)(g) Test No. 2 Hong Kong Housing Authority Specification Library (2022) COM5.M040.9(2)(g) Test No. 2
	Behaviour under humidity variations of door leaves	BS 5369: 1987 (BS EN 43) in conjunction with the following specification: Hong Kong Housing Authority Specification Library (2018) COM5.M040.A(2)(h) Test No. 3 Hong Kong Housing Authority Specification Library (2022) COM5.M040.9(2)(h) Test No. 3
	Resistance to impact (hard body) of doorsets	Hong Kong Housing Authority Specification Library (2018) COM5.M040.A(2)(i) Test No. 4 Hong Kong Housing Authority Specification Library (2022) COM5.M040.9(2)(i) Test No. 4
	Resistance to torsion of door leaves	Hong Kong Housing Authority Specification Library (2018) COM5.M040.A(2)(j) Test No. 5 Hong Kong Housing Authority Specification Library (2022) COM5.M040.9(2)(j) Test No. 5
	Strength in the plane of the door leaves	Hong Kong Housing Authority Specification Library (2018) COM5.M040.A(2)(k) Test No. 6 Hong Kong Housing Authority Specification Library (2022) COM5.M040.9(2)(k) Test No. 6

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Doors (cont'd)	Slamming open of doorsets	Hong Kong Housing Authority Specification Library (2018) COM5.M040.A(2)(l) Test No. 7 Hong Kong Housing Authority Specification Library (2022) COM5.M040.9(2)(l) Test No. 7
	Slamming close of doorsets	Hong Kong Housing Authority Specification Library (2018) COM5.M040.A(2)(m) Test No. 8 Hong Kong Housing Authority Specification Library (2022) COM5.M040.9(2)(m) Test No. 8
	Resistance to jarring and vibration of doorsets	Hong Kong Housing Authority Specification Library (2018) COM5.M040.A(2)(n) Test No. 9 Hong Kong Housing Authority Specification Library (2022) COM5.M040.9(2)(n) Test No. 9
	Resistance to impact (heavy body) of doorsets	Hong Kong Housing Authority Specification Library (2018) COM5.M040.A(2)(o) Test No. 10 Hong Kong Housing Authority Specification Library (2022) COM5.M040.9(2)(o) Test No. 10
	Resistance to closing against an obstruction of doorsets	Hong Kong Housing Authority Specification Library (2018) COM5.M040.A(2)(p) Test No. 11 Hong Kong Housing Authority Specification Library (2022) COM5.M040.9(2)(p) Test No. 11

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Doors (cont'd)		
- Ironmongery		
- Lever Handle Furniture and Locks	Strength of return mechanism	BS 4951: 1973 App. B.2
	Strength of Furniture and methods of fixing	BS 4951: 1973 App. B.3
	Durability of mechanism	BS 4951: 1973 App. B.4
	Repeat of strength of furniture and methods of fixing	BS 4951: 1973 App. B.5
	Repeat of strength of retune mechanism	BS 4951: 1973 App. B.6
	Freedom of operation of follower, knob and spring bolt action in rim and mortice locks and latches	BS 5872: 1980 A.2
	Strength of bolt spring	BS 5872: 1980 A.6
	Strength of follower or cam, knob, spring bolt and stopping medium in rim and mortice locks and Latches	BS 5872: 1980 A.7
	Dead bolt against end pressure	BS 5872: 1980 A.13
	Operation of security mechanism	BS 5872: 1980 A.14
	Strength of keys	BS 5872: 1980 A.15
	Spring bolt through follower or knob	BS 5872: 1980 A.16
	Spring bolt through striking plate or staple	BS 5872: 1980 A.17
	Strength of lock or latch case, forend and bolt	BS 5872: 1980 A.19
	Strength of striking plate	BS 5872: 1980 A.21

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Door closers	Mechanical performance and durability test of overhead door closers – Test Sample B :	
	- Set test door to required mass for strength of closer on tester	BS EN 1154: 1997 Cl. 7.3.1 para. 1
	- Open door to determine maximum opening angle	BS EN 1154: 1997 Cl. 7.3.1 para. 2 & Cl. 5.2.7
	- Cycle opening to 90^0 and allowing to close to 0^0, in a time of 3 to 7 seconds, 5000 times	BS EN 1154: 1997 Cl. 7.3.3.1
	- Measure torques and calculate efficiency over region 0^0 to 4^0	BS EN 1154: 1997 Cl. 7.3.4.1, 7.3.4.2 & Cl. 5.2.3 to 5.2.5
	- Measure closing time	BS EN 1154: 1997 Cl. 7.3.4.3 & Cl. 5.2.6
	- Closing overload test of closer on tester	BS EN 1154: 1997 Cl. 7.3.4.4 & 5.2.8
	- All closers cycle for a total of 500,000 cycles. Measuring closing time	BS EN 1154: 1997 Cl. 7.3.5.1 & 7.3.6.1
	- Calculate efficiency over region 0^0 to 4^0 after 500,000 cycles	BS EN 1154: 1997 Cl. 7.3.6.2, 7.3.4.1, 7.3.4.2 & Cl. 5.2.3 to 5.2.5
	- Measure closing time after 500,000 cycles	BS EN 1154: 1997 Cl. 7.3.6.3
	- Closing overload test after 500,000 cycles	BS EN 1154: 1997 Cl. 7.3.6.4, 7.3.4.4 & 5.2.8
	Corrosion resistance test of overhead door closer – Test Sample C :	
	- Set test door to required mass for strength of closer on test	BS EN 1154: 1997 Cl. 7.4.1
	- Measure opening and closing torque	BS EN 1154: 1997 Cl. 7.4.2
	- Expose to neutral salt spray	BS EN 1154: 1997 Cl. 7.4.3
	- Measure closing moment after NSS Test	BS EN 1154: 1997 Cl. 7.4.4, 7.4.2 & 5.2.17

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Fibre reinforced polymers (FRP)	Longitudinal tensile strength of FRP bars for reinforcing or strengthening concrete structures	ACI 440.3R-04 Cl. B1 & B2 ACI 440.3R-12 Cl. B1 & B2
	Transverse shear strength of FRP bars for reinforcing or strengthening concrete structures	ACI 440.3R-04 Cl. B1 & B4 ACI 440.3R-12 Cl. B1 & B4
Fire (other)	Non-combustibility test for building materials	BS 476 Part 4: 1970 + Amd. 2483 and 4390
	Rate of burning and/or extent and time of burning of plastics in a horizontal position	ASTM D635-06
Foundation	Borehole video inspection test	Hong Kong Housing Authority Materials Testing Services (2024/2026) for Non-destructive Pile Testing Cl. D8 & D10
	Compression static loading tests on pile (SLT)	Architectural Services Department General Specification for Building (2017) Section 5.29 Architectural Services Department General Specification for Building (2022) Section 5.29 Buildings Department Code of Practice for Foundations (2017) Cl. 8.4 General Specification for Civil Engineering Works (2020) Vol. 1 App. 8.1 Hong Kong Housing Authority Specification Library (2018) PIL1.T610.8 to PIL1.T1110.8 Hong Kong Housing Authority Specification Library (2022) PIL1.T610.9 to PIL1.T1110.9
	Crosshole sonic logging test (SOLT)	ASTM D6760-16
	Pile dynamic test (PDA)	ASTM D4945-17
	Pile integrity test (PIT)	ASTM D5882-16
	Plate load test (PLT)	BS 1377: Part 9: 1990 Cl. 4.1 (incremental loading) excluding Cl. 4.1.6.1 Buildings Department Code of Practice for Foundations (Apr 2017) Cl. 8.2(2) excluding 8.2(2)(f) to (h) Hong Kong Housing Authority Specification Library (2018) GIN.T190.8 Hong Kong Housing Authority Specification Library (2022) GIN.T190.9

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Foundation (cont'd)	Single-hole sonic logging test (SOLT)	ASTM D6760-16
	Tension static loading tests on pile (SLT)	Architectural Services Department, Technical Instruction No. 4/2005: Particular Specification for Tension Piles Buildings Department Code of Practice for Foundations (2017) Cl. 8.10
	Ultrasonic echo sounder test (UEST)	Hong Kong Concrete Institute TM3 Issue 2 (2024)
Foundation (Geotechnical monitoring)	Vibration monitoring	Guidance Note No. GN 10 Vibration Monitoring – Mines Division, Geotechnical Engineering Office, Civil Engineering and Development Department Cl. 5 to Cl. 9
Gatesets	Operation test	Hong Kong Housing Authority Specification Library (2018) COM7.M010.A(2)(d) Hong Kong Housing Authority Specification Library (2022) COM7.M010.9(2)(d)
	Slamming closed test	Hong Kong Housing Authority Specification Library (2018) COM7.M010.A(2)(e) Hong Kong Housing Authority Specification Library (2022) COM7.M010.9(2)(e)
	Heavy body impact test	Hong Kong Housing Authority Specification Library (2018) COM7.M010.A(2)(g) Hong Kong Housing Authority Specification Library (2022) COM7.M010.9(2)(g)
	Endurance performance test	Hong Kong Housing Authority Specification Library (2018) COM7.M010.A(2)(m) Hong Kong Housing Authority Specification Library (2022) COM7.M010.9(2)(m)
Glass	Impact test of glass	BS 6206: 1981 + Amd. 4580, 5189, 7589 & 8693

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Ground granualated blastfurnace slag (GGBS)	Activity index	BS EN 196-1: 2005 in conjunction with the following specification: BS EN 15167-1: 2006 Cl. 5.3.2.3
	Density	BS EN 196-6: 2010 Annex NC in conjunction with the following specification: BS EN 15167-1: 2006 Cl. 5.5g
	Fineness	BS EN 196-6: 2010 (Blaine method) in conjunction with the following specification: BS EN 15167-1: 2006 Cl. 5.3.1
	Initial setting time	BS EN 196-3: 2005 + A1: 2008 in conjunction with the following specification: BS EN 15167-1: 2006 Cl. 5.3.2.2
	Standard consistence	BS EN 196-3: 2005 + A1: 2008 in conjunction with the following specification: BS EN 15167-1: 2006 Cl. 5.3.2.2

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Grout	Bleeding and free expansion	Hong Kong Housing Authority Specification Library (2018) PIL1.T320.8 Hong Kong Housing Authority Specification Library (2022) PIL1.T320.9 General Specification for Building (2017) Section 5.21 General Specification for Building (2022) Section 5.21 General Specification for Civil Engineering Works (2006) Vol.2 Cl. 17.60
	Bleeding and volume change by wick-induced test	BS EN 445: 2007 Cl. 4.5 General Specification for Civil Engineering Works (2006) Section 17.60 + Amd. 1/2013 General Specification for Civil Engineering Works (2020) Section 17.60
	Changes in height	ASTM C1090-96 ASTM C1090-15
	Compressive strength of grout cubes in the force range 10 kN – 3000 kN	CS1: 2010 + Amd. 1/2013 Section 12
	Early change in height	ASTM C827-95a (Reapproved 1997) ASTM C827-16
	Expansion and bleeding of freshly mixed grout for preplace-aggregate concrete	ASTM C940-98a ASTM C940-98a/16 with modification
	Flow of grout for preplaced-aggregate concrete by flow cone method	ASTM C939-10 ASTM C939/939M-16a
	Fluidity test by cone method	BS EN 445: 2007 Cl. 4.3.1 General Specification for Civil Engineering Works (2006) Section 17.66 + Amd. 1/2013 General Specification for Civil Engineering Works (2020) Section 17.66
	Setting time	ASTM C953-87 (Reapproved 1997) ASTM C953-17
Joint filler	Recovery value, reduction in mass, extrusion	Hong Kong Housing Authority Specification Library (2018) EXT2.T620.8 to EXT2.T680.8 Hong Kong Housing Authority Specification Library (2022) EXT2.T620.9 to EXT2.T680.9

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Manhole covers / steps	Bending test of manhole steps	BS 1247: Part 1: 1990 App. A
	Dimension measurement of manhole steps	BS 1247: Part 1: 1990 Cl. 3
	Loading test for manhole covers, road gully gratings and frames for drainage purpose	BS 497: Part 1: 1976 Cl. 7 & 14
	Loading test of manhole covers and gully gratings	BS EN 124: 1994 + Amd. 8587 Cl. 8 BS EN 124-1: 2015 Cl. 8
	Mass determination and loading test of manhole covers, gully gratings and kerb overflow weirs	Hong Kong Housing Authority Specification Library (2018) DRA2.T430.8 to DRA2.T490.8 Hong Kong Housing Authority Specification Library (2022) DRA2.T430.9 to DRA2.T490.9
	Mass determination and resistance to fracture of manhole covers, gully gratings and kerb overflow weirs	General Specification for Civil Engineering Works (2006) Vol. 1 Cl. 5.95 & App. 5.3 General Specification for Civil Engineering Works (2020) Vol. 1 Cl. 5.95 & App. 5.3
	Pull-out test of manhole steps	BS 1247: Part 1: 1990 App. B
	Pull-out test of steps for underground man entry chambers	BS EN 13101: 2002 Annex D in conjunction with the following specification: BS EN 13101: 2002 Cl. 4.3.9
	Twist test of manhole steps	BS 1247: Part 1: 1990 Cl. 7.1
	Twist test of steps for underground man entry chambers	BS EN 13101: 2002 Annex A in conjunction with the following specification: BS EN 13101: 2002 Cl. 4.3.6
	Vertical loading test of steps for underground man entry chambers	BS EN 13101: 2002 Annex B in conjunction with the following specification: BS EN 13101: 2002 Cl. 4.3.7

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Metallic materials	Bend test of carbon steel bars	BS 4449: 1988 Cl. 10.2 CS2: 1995 Cl. 6.1 & 6.3
	Bend test of stainless steel bars	BS 6744: 2001 + A2: 2009 Annex E (excluding cold worked stainless steel bars)
	Bond property of steel reinforcing bars by surface geometry measurement	BS EN ISO 15630-1: 2002 + Corr. 1 Cl. 10, 11.2 & 11.3 CS2: 2012 (Rev. 6) Cl. 6.1 & 6.7.2 in conjunction with following specification(s): BS 4449: 2005 + A2: 2009 Cl. 7.4 & 9 BS 4482: 2005 Cl. 7.4.2 & 9
	Brinell hardness test of metallic materials in the scale of HBW 95.5 / 653	BS EN ISO 6506: Part 1: 1999 BS EN ISO 6506: Part 1: 2014
	Charpy V-notch and/or U-notch impact test	BS EN 10045-1: 1990 BS EN ISO 148-1: 2016 in conjunction with the following specification(s): BS EN 10025-1: 2004 Cl. 10.2.2 BS EN 10025-2: 2004 Cl. 10.2 & Table 9 BS EN 10025-4: 2004 Cl. 10.2, Table 6 & 7 BS EN 10210-1: 2006 Cl. 6.6.2, 9.2.3, Table A.3 & B.3 BS EN 10219-1: 2006 Cl. 6.7.2, 9.2.3, Table A.3, B.4 & B.5
	Effective cross-sectional area and mass per meter of stainless steel bars	BS 6744: 2001 + A2: 2009 Cl. 6.1 (excluding cold worked stainless steel bars)
	Mass per metre of cold reduced steel wires	BS 4482: 1985 Cl. 9 & App. A BS EN ISO 15630-1: 2002 Cl. 12 in conjunction with the following specification: BS 4482: 2005 Cl. 7.3 & 9
	Mass per meter of steel reinforcing bars	BS EN ISO 15630-1: 2002 + Corr. 1 Cl. 12 CS2: 2012 (Rev. 6) Cl. 6.1 & 6.2 in conjunction with the following specification(s) BS 4449: 2005 + A2: 2009 Cl. 7.2.2, 7.3 & 9

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Metallic materials (cont'd)	Pitch and mass per meter square of steel fabric for reinforcement of concrete	BS 4483: 1998 Cl. 6 & 10 BS 4483: 2005 Cl. 7.3 & General Specification for Civil Engineering Works (2020) + Amd. 1/2025 Vol. 2 Section 15
	Performance test of tension bonded epoxy coated carbon steel bars	BS 7295: Part 1: 1990 Cl. 4 + Amd. 6955 with modifications
	Proof load test of stainless steel nuts in the force range 5 kN – 3000 kN	BS 6105: 1981 Cl. 6.6, Table 3 & 4
	Proof load test of steel nuts in the force range 5 kN – 3000 kN	BS 3692: 2001 Annex C.1 BS 3692: 2014 Annex C.1 BS 4190: 2014 Annex A.1 BS EN 20898-2: 1994 Cl. 5-7 & 8.1 BS EN ISO 898-2: 2022 Cl. 9.1 ISO 898-2: 1992 Cl. 5-7 & 8.1
	Rebend test of carbon steel bars	BS 4449: 1988 Cl. 10.3 CS2: 1995 Cl. 6.1 & 6.4
	Rebend test of reinforcing bars, wire rods, welded fabrics or cold reduced wires for reinforcement of concrete	BS EN ISO 15630-1: 2002 + Corr. 1 Cl. 7 CS2: 2012 (Rev. 6) Cl. 6.1 & 6.5 in conjunction with the following specification(s): BS 4449: 2005 + A2: 2009 Cl. 7.2.5 & 9 BS 4482: 1985 Cl. 12.2 & App. C.5 with modifications BS 4482: 2005 Cl. 7.2.4 & 9 BS 4483: 1998 Cl. 13.1 BS 4483: 2005 Cl. 7.2.5, 8.1.3.2 & 9
	Rockwell hardness test in the scale range HRA to HRC	BS EN ISO 6508-1: 1999 BS EN ISO 6508-1: 2023
	Static tension test, static compression test, cyclic tension & compression tests for mechanical connector systems (Type 2 Splice) for steel reinforcing bars in the force range 10 kN - 2000 kN	ICC Evaluation Service, Inc. AC133 (Approved May 2008, Effective 1 Jun 2008) Cl. 4.1.2 ICC Evaluation Service, Inc. AC133 (Approved Oct 2020) Cl. 4.3 in conjunction with the following specification(s): Buildings Department Code of Practice for Structural Use of Concrete (2013) Cl. 3.2.8.4(b), (c) & (d)

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Metallic materials (cont'd)	Surface geometry of stainless steel bars	BS 6744: 2001 + A2: 2009 Cl. 10 & Annex C (excluding cold worked stainless steel bars)
	Tensile test of carbon steel bars in the force range 5 kN – 3000 kN	CS2: 1995 Cl. 6.1 & 6.2 BS 4449: 1988 Cl. 10.1
	Tensile test of high tensile 7-wire strands in the force range 5 kN – 3000 kN	BS 18-2: 1971 BS EN ISO 6892-1: 2019 Cl. 10.3.2 & 10.3.3 Method A & Method B & BS EN ISO 15630-3: 2019 Cl. 5 in conjunction with the following specification(s): BS 5896: 1980 App. A BS 5896: 2012 Cl. 7.2.2
	Tensile test of metallic materials in the force range 5 kN – 3000 kN	BS 18: 1987 BS EN 10002-1 : 1990 BS EN 10002-1 : 2001 BS EN ISO 6892-1: 2009 Cl. 10.3 & 10.4 Method A & Method B BS EN ISO 6892-1: 2016 Cl. 10.3.2 & 10.3.3 Method A & Method B BS EN ISO 6892-1: 2019 Cl. 10.3.2 & 10.3.3 Method A & Method B in conjunction with the following specification(s): BS 1452: 1990 Cl. 4 BS 4360: 1986 Cl. 23 BS 4360: 1990 Cl. 23 BS 4486: 1980 Cl. 9.1.6 BS 6744: 2001 + A2: 2009 (excluding cold worked stainless steel bars) BS EN 10025-1: 2004 Cl. 7.3.1, 9.2.3.2 & 10.2.1 BS EN 10025-2: 2004 Cl. 10.2 & Table 7 BS EN 10025-4: 2004 Cl. 10.2 & Table 5 BS EN 10210-1: 2006 Cl. 6.6.1, 9.2.1 & 9.2.2 BS EN 10219-1: 2006 Cl. 6.7.1, 9.2.1 & 9.2.2 BS EN 1561: 1997 Cl. 9.1 & Table 1 & 2

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Metallic materials (cont'd)	Tensile test of reinforcing bars, wire rods, welded fabrics or cold reduced wires for reinforcement of concrete in the force range 0.2 kN – 3000 kN	BS EN 10002-1: 2001 BS EN ISO 6892-1: 2009 Cl. 10.3 & 10.4 Method A & Method B BS EN ISO 6892-1: 2016 Cl. 10.3.2 & 10.3.3 Methods A1, A2 & Method B BS EN ISO 6892-1: 2019 Cl. 10.3.2 & 10.3.3 Methods A1, A2 & Method B in conjunction with the following specification(s): BS 4449: 1997 Cl. 11.1 & 11.2 (up to 16 mm dia.) BS 4449: 2005 + A2: 2009 Cl. 7.2.2, 7.2.3, 8.1.3.1 & 9 BS 4482: 1985 Cl. 12.1 & App. C.3 with modifications BS 4482: 2005 Cl. 8.1.3.1 & 9 BS 4483: 1998 Cl. 13.1 BS 4483: 2005 Cl. 7.2.2, 7.2.3, 8.1.3.1 & 9 CS2: 2012 (Rev. 6) Cl. 6.1 & 6.4
	Tensile test & slip/permanent elongation test of mechanical couplers for reinforcing bar in the force range 5 kN – 3000 kN	BS EN ISO 6892-1: 2019 Cl. 10.3.2 & 10.3.3 Methods A1, A2 & Method B & ISO 15835-2: 2018 Cl. 5.4 excluding Cl. 5.4.4 in conjunction with the following specification(s): BS 8110: Part 1: 1997 Cl. 3.12.8.16.2 Buildings Department Code of Practice for Structural Use of Concrete (2004) Cl. 3.2.8.2 Buildings Department Code of Practice for Structural Use of Concrete (2013) Cl. 3.2.8.3 General Specification for Civil Engineering Works (2006) Vol. 2 Cl. 15.35 General Specification for Civil Engineering Works (2020) Vol. 2 Cl. 15.35
	Tensile test of unmachined (finished) bolts, screws and studs in the force range 5 kN – 3000 kN	BS EN ISO 6892-1: 2019 Cl. 10.3.2 & 10.3.3 Methods A1, A2 & Method B in conjunction with the following specification(s): BS EN ISO 898-1: 2013 Cl. 9.2
	Tensile test of machined bolts, screws and studs in the force range 5 kN – 3000 kN	BS EN ISO 6892-1: 2019 Cl. 10.3.2 & 10.3.3 Methods A1, A2 & Method B in conjunction with the following specification(s): BS EN ISO 898-1: 2013 Cl. 9.7

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Metallic materials (cont'd)	Vickers hardness test of metallic materials in scale range HV5, HV10 and HV30	BS 427: 1990 BS EN ISO 6507: Part 1: 1998 BS EN ISO 6507: Part 1: 2023
	Weld shear force test of steel fabrics for reinforcement of concrete	BS EN ISO 15630-2: 2002 Cl. 7 ISO 10287: 1992 in conjunction with the following specification(s): BS 4483: 1998 Cl. 13.2 BS 4483: 2005 Cl. 7.2.2 & 7.2.4
Mortar	Dry bulk density of hardened mortar	BS EN 1015-10: 1999
	Flexural strength of hardened mortar in the force range 1 kN – 9.5 kN	BS EN 1015-11: 1999
	Compressive strength of hardened mortar in the force range 10 kN – 140 kN	BS EN 1015-11: 1999
	Adhesive strength of hardened rendering and plastering mortar on substrates	BS EN 1015-12: 2000
	Consistence retentivity and water retentivity of mortar	BS 4551: 2005
	Consistence of fresh mortar (By flow table)	BS EN 1015-3: 1999
	Air content of fresh mortar	BS EN 1015-7: 1999 (Method A)
	Workable life and correction time of fresh mortar	BS EN 1015-9: 1999 (Method A)

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Paint	Bend test	BS 3900: E1: 1995 BS EN ISO 1519: 2011
	Coating thickness	BS EN ISO 2808: 2007, BS 3900-C5: 2007 (Method 7C)
	Comparison of contrast ratio (Hiding power)	BS 3900-D4: 1974 BS EN ISO 2814: 2006, BS 3900-D4: 2006
	Surface drying time using ballotini	BS 3900: Part C2: 1994 BS EN ISO 9117-3: 2010
	Through dry	BS 3900: Part C3: 1990 BS EN ISO 9117-1: 2009
	Fineness of grind	BS 3900-C6: 2000 BS EN ISO 1524: 2013
	Examination and preparation of samples	BS 3900: Part A2: 1993 Cl. 4.1.2 - 4.1.6 & 5.1.2 - 5.1.6 BS EN ISO 1513: 2010 Cl. 5.1.1 – 5.1.4 & 5.1.6
	Scratch test	BS 3900: Part E2: 1992 BS EN ISO 1518-1: 2011
	Specular gloss	BS 3900: Part D5: 1997 BS EN ISO 2813: 2000 BS EN ISO 2813: 2014
	Flow time by use of flowcups	BS 3900: Part A6: 1996 BS EN ISO 2431: 2011
	Consistency (Measuring Krebs unit viscosity using a Stormer-type viscometer)	ASTM D 562-01 (Method B) ASTM D 562-10 (Method B) ASTM D 562-10 (Reapproved 2018) (Method B)
	Scrub resistance	ASTM D 2486-96 ASTM D 2486-17 (Method A) SS5: Part F5: 2003
	Accelerated weathering resistance	ASTM G53-88 ASTM G53-96 ASTM G154-12a ASTM G154-16
	Resistance to humid atmospheres containing sulphur dioxide	BS 3900: F8: 1976 BS EN ISO 3231: 1998, BS 3900: F8: 1993
	Cross-cut test	BS EN ISO 2409: 2013

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Paint (cont'd)		
- Multi-layer	Adhesion strength	JIS A 6910 –1988 Cl. 5.8
	Change in consistency	JIS A 6910 –1988 Cl. 5.6
	Cracking resistance due to initial stage drying	JIS A 6910 –1988 Cl. 5.7 & Architectural Services Department General Specification for Building (2022) Cl. 21.93
	Impact test	JIS A 6910 –1988 Cl. 5.11 & Architectural Services Department General Specification for Building (2022) Cl. 21.93
	Low temperature stability	JIS A 6910 –1988 Cl. 5.5
	Permeability	JIS A 6910 –1988 Cl. 5.10 & Architectural Services Department General Specification for Building (2022) Cl. 21.93
	Repeat warming and cooling	JIS A 6910 –1988 Cl. 5.9 (Four sides of specimens are wrapped.)

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Paint (cont'd)		
- Bitumen-based	Flash point	BS 3416: 1991 Cl. 5 and Cl. B.1 of App. B BS 3900: Part A13: 1986 Cl. 7.2 (Method 2)
	Drying and over-coating times	BS 3416: 1991 Cl. 6 and Cl. B.2 of App. B, App. C (with modifications) BS 3900: Part C2: 1994 Cl. 7 excluding 7.3 BS 3900: Part A3: 1997 Cl. 3
	Finish	BS 3416: 1991 Cl. 7 and Cl. B.3 of App. B, App. C (with modifications) BS 3900: Part A3: 1997 Cl. 3
	Protection against corrosion	BS 3416: 1991 Cl. 8 & App. B Cl. B4 (with modification) BS 3900: Part H2: 1983 BS 3900: Part G5: 1993 (Method 1 – procedure A) ISO 4628-2: 2003 (E)
	Bend resistance	BS 3416: 1991 Cl. 9 and Cl. B.5 of App. B, App. C (with modifications) BS 3900: Part A3: 1997 Cl. 4 BS 3900: Part E1: 1995 Cl. 6 excluding 6.2.2 & 6.3
	Shelf life	BS 3416: 1991 Cl. 11

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Pipes and fittings		
- Cast iron pipes and fittings	Cast iron pipes and fittings, joints and accessories - test methods	BS EN 877: 1999 + A1: 2006 <excluding the following> Cl. 4.1.3, Cl. 4.1.4, Cl. 4.6.3 & Cl. 5.7.3.3 BS EN 877: 2021 <excluding the following> Cl. 5.7.3.1, 5.7.3.2, 5.7.3.3 & 5.9.2
	Crushing test of cast iron pipes & fittings	BS 437: 1978 App. A BS 437: 2008 Annex A10 in conjunction with the following specification(s): BS 437: 1978 Cl. 8 BS 437: 2008 Cl. 4.5
	Dimensions and masses measurement of cast iron spigot and socket drain pipes and fittings	BS 437: 2008 Annex A1 to A9 In- house method PIP-DIMMAS-CIRON437 in conjunction with the following specification(s): BS 437: 1978 Cl. 5 BS 437: 2008 Cl. 4.3 & 4.4
	Dimensions measurement of discharge and ventilating pipes and fittings, sand-cast or spun in cast iron	In- house method PIP-DIM-CIRON416 in conjunction with the following specification(s): BS 416: Part 1: 1990 Cl. 4.1 & 4.2
	Freedom from defects and determination of depth of seal of cast iron spigot and socket drain pipes and fittings	BS 437: 1978 Cl. 4 and 6
	Hydrostatic test of cast iron spigot and socket drain pipes and fittings	BS 437: 1978 Cl. 7
	Leakage test of cast iron discharge and ventilating pipes and fittings, sand –cast or spun in cast iron	BS 4772: 1988 App. B in conjunction with the following specification(s): BS 416: Part 1: 1990 Cl. 5

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Pipes and fittings (cont'd) - Cast iron pipes and fittings (cont'd)	Tensile testing of grey (flake graphite) cast iron, malleable cast iron and ductile cast iron in the range 20 kN to 1000 kN	BS 1452: 1990 Cl. 4 & BS 18: 1987 BS 18: 1987 BS EN 10002-1: 1990 ISO BS EN ISO 6892-1: 2009 in conjunction with the following specification(s): BS 416: Part 1: 1990 Cl. 3 BS 437: 1978 Cl. 3 BS 1452: 1990: Cl. 4 BS EN 1561: 1997 Cl. 7.2 BS 6681: 1986 Cl. 7, 8, 9, 10, 11 & 12 ISO 185: 1988 Cl. 4 & 5
- Ductile iron pipes and fittings	Brinell hardness testing of ductile iron pipes and fittings	BS EN ISO 6506: Part 1: 1990 in conjunction with the following specification(s): BS 4772: 1988 Cl. 2.6 BS EN 545: 2002 Cl. 6.4 BS EN 545: 2006 Cl. 6.4 BS EN 598: 1995 Cl. 6.4 BS EN 598: 2007 + A1: 2009 Cl. 6.4
	Diametral stiffness testing of ductile iron pipes	BS EN 598: 1995 Cl. 7.2 BS EN 598: 2007 + A1: 2009 Cl. 7.3
	Hydrostatic test of ductile iron pipes and fittings	BS 4772: 1988 App. B BS EN 598: 2007 + A1: 2009 Cl. 6.5 in conjunction with the following specification(s): BS 4772: 1988 Cl. 2.2.1
	Straightness of ductile iron pipes	BS 4772: 1988 Cl. 2.9
	Surface condition, dimensions measurement and mass of ductile iron pipes and fittings	In-house method PIP-CDIMMAS-DIRON4772 in conjunction with the following specification(s): BS 4772: 1988 Cl. 2.8, 2.10 & 2.11
	Surface condition and repairs, straightness dimensions measurement of ductile iron pipe, fittings, accessories and their joints for sewage applications	In-house method PIP-SC-DIRON598, PIP-STS-DIRON598 & PIP-DIM-DIRON598 in conjunction with the following specification(s): BS EN 598: 1995 Cl. 4.1.2, 4.2.4, 6.1 & 6.2 BS EN 598: 2007 + A1: 2009 Cl. 4.1.2, 4.2.1 to 4.2.4, 6.1 & 6.2

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Pipes and fittings (cont'd)		
- Ductile iron pipes and fittings (cont'd)	Surface condition and repairs, straightness dimensions measurement and diametral stiffness testing of ductile iron pipes, fittings, accessories and their joints for water pipelines.	In-house method PIP-SC-DIRON545, PIP-ST-DIRON545, PIP-DIM-DIRON545, PIP-CASION-DMS, PIP-DIRON-DIM-EN545:2010 & PIP-DIRON-ST-EN545:2010 in conjunction with the following specification(s): BS EN 545: 1995 Cl. 4.1.2, 4.2.4, 6.1, 6.2 & Annex C BS EN 545: 2006 Cl. 4.1.2, 4.2.4, 6.1 & 6.2 & Annex C BS EN 545: 2010 Cl. 4.3, 6.1, 6.2, 8.3 & 8.4 Tables 1, 2, 6, 17 to 37
	Tensile test of ductile iron pipes and fittings	BS 4772: 1988 + Amd. 6270 App. D BS EN 10002-1: 1990 in conjunction with the following specification(s): BS 4772: 1988 + Amd. 6270 Cl. 2.5 BS EN 545: 1995 Cl. 6.3 Method A BS EN 545: 2006 Cl. 6.3
	Tensile testing of grey (flake graphite) cast iron, malleable cast iron and ductile cast iron in the range 20 kN – 1000 kN	BS EN 10002-1: 1990 in conjunction with the following specification(s): BS EN 598: 1995 Cl. 6.3
	Thickness of paint coating and cement mortar lining of ductile iron pipes and fittings	In-house method PIP-DIRON-CT-EN545:2010 in conjunction with the following specification(s): BS EN 545: 2010 Cl. 6.7 & 6.8
	Works leaktightness test of ductile iron pipes and fittings	BS EN 545: 1995 Cl. 6.5 BS EN 545: 2006 Cl. 6.5 BS EN 545: 2010 Cl. 6.5 BS EN 598: 1995 Cl. 6.9 & 6.10 in conjunction with the following specification(s): BS EN 545: 1995 Cl. 4.7 BS EN 545: 2006 Cl. 4.7

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Pipes and fittings (cont'd)		
- Grey iron pipes and fittings	Brinell hardness testing of grey iron pipes, fittings, accessories and their joints for sewage applications and water pipeline	BS EN ISO 6506: Part 1: 1990 in conjunction with the following specification(s): BS 4622: 1970 Cl. 14
	Dimensions measurement and mass of grey iron pipes and fittings	In-house method PIP-DIM-GI4622 in conjunction with the following specification(s): BS 4622: 1970 Cl. 10 & 11
	Hydrostatic test of grey iron pipes and fittings	BS 4622: 1970 Cl. 15.1 in conjunction with the following specification(s): BS 4622: 1970 Cl. 3.4 & 4.2
	Surface condition, straightness and uniformity of grey iron pipes and fittings	In-house method PIP-GREYION-SCI & PIP-GREYION-SU in conjunction with the following specification(s): BS 4622: 1970 Cl. 7 & 9
	Tensile test of grey iron pipes and fittings	BS 4622: 1970 + Amd. 614, 1298 & 3772 Cl. 14

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Pipes and fittings (cont'd)		
- Copper pipes and fittings	Carbon film test of copper and copper alloys plumbing fittings with ends for capillary soldering or capillary brazing to copper tubes	BS EN 1254-1 : 1998 Annex A in conjunction with the following specification(s): BS EN 1254-1 : 1998 Cl. 5.4.1
	Dimensions measurement of copper and copper alloys plumbing fittings with ends for capillary soldering or capillary brazing to copper tubes	In-house method PIP-COPPER-DIM-EN1254-1: 1998 in conjunction with the following specification(s): BS EN 1254-1: 1998 Cl. 4.3
	Dimensions measurement of copper and copper alloys plumbing fittings with compression ends for use with copper tubes	In-house method PIP-COPPER-DIM-EN1254-2: 1998 in conjunction with the following specification(s): BS EN 1254-2: 1998 Cl. 4.3
	Leaktightness test of copper and copper alloys plumbing fittings with ends for capillary soldering or capillary brazing to copper tubes	In-house method PIP-COPPER-PRE-EN1254-1: 1998 in conjunction with the following specification(s): BS EN 1254-1: 1998 Cl. 5.2
	Leaktightness test of copper and copper alloys plumbing fittings with compression ends for use with copper tubes	BS EN 1254-2: 1998 Cl. 5.4
	Resistance to pull-out of copper and copper alloys plumbing fittings with compression ends for use with copper tubes	BS EN 1254-2: 1998 Cl. 5.5
	Leaktightness under internal hydrostatic pressure whilst subjected to bending of copper and copper alloys plumbing fittings with compression ends for use with copper tubes	BS EN 1254-2: 1998 Cl. 5.6
	Stress corrosion resistance of copper and copper alloys plumbing fittings with ends for capillary soldering or capillary brazing to copper tubes	ISO 6957: 1988 in conjunction with the following specification(s): BS EN 1254-1 : 1998 Cl. 5.6
	Stress corrosion resistance of copper and copper plumbing fittings with compression ends for use with copper tubes	ISO 6957: 1988 in conjunction with the following specification(s): BS EN 1254-2: 1998 Cl. 5.9

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Pipes and fittings (cont'd)		
- Copper pipes and fittings (cont'd)	Carbon film test of copper and copper alloys (seamless) round copper tubes for water, gas in sanitary, and heating applications	BS EN 1057: 2006 + A1: 2010 Annex B in conjunction with the following specification(s): BS EN 1057: 2006 + A1: 2010 Cl. 7.5 & 10.5
	Dimensions measurement of copper and copper alloys (seamless) round copper tubes for water, gas in sanitary, and heating applications	In-house method BC-COPPER-DIM-EN1057-2006 + A1-2010 in conjunction with the following specification(s): BS EN 1057: 2006 + A1: 2010 Cl. 7.3
	Drift expanding test of copper and copper alloys (seamless) round copper tubes for water, gas in sanitary, and heating applications	BS EN 1057: 2006 + A1 : 2010 Cl. 10.7 BS EN ISO 8493: 2004
	Hydrostatic test of copper and copper alloys (seamless) round copper tubes for water, gas in sanitary, and heating applications	BS EN 1057: 2006 + A1: 2010 Annex C.2 in conjunction with the following specification(s): BS EN 1057: 2006 + A1: 2010 Cl. 7.4 & 10.9
	Surface quality, dimensions, and tolerances, freedom from defects test (hydrostatic test), tensile test and hardness carbon film test of copper and copper alloys (seamless) round copper tubes for water, gas in sanitary, and heating applications	BS EN 1057: 1996 Cl. 6.3 to 6.5, 8.2, 8.3, 8.5 & 8.9 (Method in C2)
- Non-alloy steel pipes	Dimensions measurement of non-alloy steel tubes	In-house method DIP-NST-DIM-EN10225: 2004 + A1 2007 in conjunction with the following specification(s): BS EN 10255: 2004 + A1: 2007(E) Cl. 8.4
	Flattening test of non-alloy steel tubes	BS EN 10255: 2004 + A1: 2007(E) Cl. 9.5 BS EN ISO 8492: 2013
	Leaktightness test of non-alloy steel tubes	In-house method DIP-NST-LEAK-EN10225: 2004 + A1 2007 in conjunction with the following specification(s): BS EN 10255: 2004 + A1: 2007(E) Cl. 9.6

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Pipes and fittings (cont'd)		
- Stainless steel pipes and fittings	Dimensions of Stainless Steel Fittings	In- house method SSF-DIM-AS3688 in conjunction with the following specification(s): AS 3688: 2016 Section 3, Table 3.6.4 & 3.7.2(B)
	Leaktightness under internal pressure test of stainless steel fittings	AS 3688: 2016 Appendix D in conjunction with the following specification(s): AS 3688: 2016 Section 4.2
	Pressure cycle test of stainless steel fittings	AS 3688: 2016 Appendix F in conjunction with the following specification(s): AS 3688: 2016 Section 4.4
	Resistance to pull-out of assembled joints of stainless steel fitting	AS 3688: 2016 Appendix G in conjunction with the following specification(s): AS 3688: 2016 Section 4.5
	Leaktightness under internal pressure whilst subjected to bending of stainless steel fittings	AS 3688: 2016 Appendix I in conjunction with the following specification(s): AS 3688: 2016 Section 4.7
	Compatibility of water fittings with pipe of stainless steel fittings	AS 3688: 2016 Appendix J in conjunction with the following specification(s): AS 3688: 2016 Section 4.8
	Roll-grooved assembly (Joint Pressure Resistance test) of stainless steel fittings	AS 3688: 2016 Appendix K in conjunction with the following specification(s): AS 3688: 2016 Section 4.9
	Resistance of press fitting joints and tubes to vibration of stainless steel fittings	AS 3688: 2016 Appendix P in conjunction with the following specification(s): AS 3688: 2016 Section 4.13
	Intergranular corrosion test of stainless steel	BS EN ISO 3651-2: 1998
- Steel tubes	Dimensions measurement, visual inspection, tensile test, bend test, flattening test, leaktightness test, and bore test of screwed and socketed steel tubes and tubulars and for plain end steel tubes	BS 1387: 1985 Cl. 2.5, 3.1 to 3.6

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Pipes and fittings (cont'd)		
- Welded stainless steel tubes	Dimensions measurement of welded stainless steel tubes	In-house method DIP-WST-DIM-EN10312:2002 in conjunction with the following specification(s): BS EN 10312: 2002 Cl. 8.8, 11.7, Table 1 and 2
	Drift expanding test of welded stainless steel tubes	BS EN 10312: 2002 Cl. 11.2 BS EN ISO 8493: 2004
	Flattening test of welded stainless steel tubes	BS EN 10312: 2002 Cl. 11.3 BS EN ISO 8492: 2013
	Hydrostatic test of welded stainless steel tubes	In-house method DIP-WST-LEAK-EN10312:2002 in conjunction with the following specification(s): BS EN 10312: 2002 Cl. 11.4.3
- Clay pipes and fittings	Bore and length of vitrified clay pipes	In-house method PIP-VTFCLAY-DIM in conjunction with the following specification(s): BS 65: 1991 Cl. 5.1 & 5.2 BS EN 295-1: 1991 Cl. 2.2 & 2.3
	Crushing strength test of vitrified clay pipes & fittings & pipe joints for drains & sewers	BS EN 295: Part 3: 1991 + Amd. A1 Cl. 4 BS 65: 1988 App. B BS 65: 1991 App. B in conjunction with the following specification(s): BS 65: 1988 Cl. 6.2 BS 65: 1991 Cl. 6.2
	Water pressure test (impermeability) of vitrified clay pipes and fittings	BS 65: 1988 Cl. 6.4 & 8.2 BS 65: 1991 Cl. 6.4 & 8.2

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Pipes and fittings (cont'd)		
- Concrete pipes and fittings	Crushing strength test of precast concrete pipes & fittings	BS 5911: Part 100: 1988 + Amd. 7588 App. D in conjunction with the following specification(s): BS 5911: Part 100: 1988 + Amd. 7588 Cl. 20.4 BS EN 1916: 2002 Annex C in conjunction with the following specification(s): BS EN 1916: 2002 Cl. 4.5.3 & Cl. 6.4 BS 5911: Part 1: 2002 + A2: 2010 Cl. 5.6
	Dimension measurement of precast concrete pipes	In-house method PIP-DIM-5911 in conjunction with the following specification(s): BS 5911: Part 100: 1988 + Amd. 7588 Cl. 9 and 10 BS 5911: Part 1: 2002 + A2: 2010 Annex D in conjunction with the following specification(s): BS 5911: Part 1: 2002 + A2: 2010 Cl. 5.4
	Hydrostatic test of concrete pipes and fittings	BS 5911: Part 100: 1988 + Amd. 7588 App. F in conjunction with the following specification(s): BS 5911: Part 100: 1988 + Amd. 7588 Cl. 20.3 BS EN 1916: 2002 Annex E (excluding joint assembly) in conjunction with the following specification(s): BS EN 1916: 2002 Cl. 4.3.7
	Water absorption test of precast concrete pipes and fittings	BS 5911: Part 100: 1988 + Amd. 7588 App. E in conjunction with the following specification(s): BS 5911: Part 100: 1988 + Amd. 7588 Cl. 20.2 BS EN 1916: 2002 Annex F in conjunction with the following specification(s): BS EN 1916: 2002 Cl. 4.2.6.2 & 6.7

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Pipes and fittings (cont'd)		
- Polyethylene (PE) pipes and fittings	Assessment of the degree of pigment dispersion (blue compound) of polyethylene (PE) compounds, pipes and fittings	ISO 18553: 2002 excluding Cl. 4.1.2 & 4.2.2 in conjunction with the following specification(s): BS EN 12201-1: 2003 Cl. 4.4
	Cohesive resistance for polyethylene (PE) electrofusion socket fittings	ISO 13954: 1997 in conjunction with the following specification(s): BS EN 13244-3: 2002 Cl. 8 BS EN 12201-3: 2003 Cl. 8
	Density of polyethylene (PE) compounds, pipes and fittings	ISO 1183-1: 2004 (Method A - Immersion method) in conjunction with the following specification(s): BS EN 13244-1: 2002 Cl. 4.4 BS EN 12201-1: 2003 Cl. 4.4
	Dimensions measurement of polyethylene (PE) Pipes	EN ISO 3126 : 2005 ISO 3126: 2005 in conjunction with the following specification(s): BS EN 12201-2: 2003 Cl. 6 BS EN 12201-2 : 2011 + A1: 2013 Cl.6 BS EN 13244-2: 2002 Cl. 6.1 to 6.5 ISO 4427: 1996 Cl. 4.1, 4.2 & 4.3 ISO 11922-1: 1997
	Dimensions measurement of polyethylene (PE) electrofusion sockets	ISO 3126: 2005 in conjunction with the following specification(s): BS EN 12201-3: 2003 Cl. 6.1 & 6.2 BS EN 12201-3: 2011 + A1: 2012 Cl.6.2 BS EN 13244-3: 2002 Cl. 6.1 & 6.2
	Elongation at break of polyethylene (PE) pipes	BS EN ISO 6259-1: 2001 ISO 6259-3: 1997 in conjunction with the following specification(s): BS EN 13244-2: 2002 Cl. 8 BS EN 12201-2: 2003 Cl. 8

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
31 On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 31 號

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Pipes and fittings		
- Polyethylene (PE) pipes and fittings	1,000 hours hydrostatic strength at 80℃ of electrofusion polyethylene (PE) fittings	BS 7336: 1990 App. L in conjunction with the following specification(s): Water Industry Specification 4-32-14 Mar 1995 Issue 1 Cl. 7.4
	Hydrostatic strength of polyethylene (PE) pipes and fittings	EN 921: 1994 in conjunction with the following specification(s): BS EN 12201-2: 2003 Cl. 7 BS EN 12201-3: 2003 Cl. 7.1 to 7.4 BS EN 13244-2: 2002 Cl. 7 BS EN 13244-3: 2002 Cl. 7.1 to 7.4 EN ISO 1167-1 : 2006 EN ISO 1167-2 : 2006 ISO 1167: 1996 in conjunction with the following specification(s): BS EN 12201-2: 2011 + A1: 2013 Cl.7 BS EN 12201-3: 2011 + A1: 2012 Cl.7 ISO 4427: 1996 Cl. 5 Tables 8 & 9
	Melt mass-flow rate (MFR) of polyethylene (PE) compounds, pipes and fittings	EN ISO 1133: 1999 (Procedure A) in conjunction with the following specification(s): BS EN 12201-1: 2003 Cl. 4.4 BS EN 12201-2: 2003 Cl. 8 BS EN 12201-3: 2003 Cl. 8 BS EN 13244-1: 2002 Cl. 4.4 BS EN 13244-2: 2002 Cl. 8 BS EN 13244-3: 2002 Cl. 8 ISO 1133: 2005 (mass-measurement method) ISO 4427: 1996 Cl. 3.7
	Oxidation induction time (OIT) of electrofusion polyethylene (PE) fittings	BS 7281: 1990 App. D in conjunction with the following specification(s): Water Industry Specification 4-32-14 Mar 1995 Issue 1 Cl. 8.5

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
31 On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 31 號

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Pipes and fittings (cont'd)		
- Polyethylene (PE) pipes and fittings (cont'd)	Oxidation induction time (OIT) of polyethylene (PE) compounds, pipes and fittings	EN 728: 1997 in conjunction with the following specification(s): BS EN 12201-1: 2003 Cl. 4.4 BS EN 12201-2: 2003 Cl. 8 BS EN 12201-3: 2003 Cl. 8 BS EN 13244-1: 2002 Cl. 4.4 BS EN 13244-2: 2002 Cl. 8 BS EN 13244-3: 2002 Cl. 8
	Thermal stability (Oxidation Induction Time OIT) of polyethylene (PE) compounds and pipes	ISO/TR 10837: 1991 in conjunction with the following specification(s): ISO 4427: 1996 Cl. 3.3 & 6.1

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Pipes and fittings (cont'd)		
- Thermoplastics pipes and fittings	Dimensions measurement of thermoplastics pipes, fittings and valves	BS 2782: Part 11: 1981 (Method 1101A)
	Longitudinal reversions of thermoplastics pipes	BS 2782: Part 11: 1995 (Method 1102B) BS EN 743: 1995 Cl. 3
	True impact rate boundaries (TIR) of thermoplastics pipes	BS 2782: Part 11: 1989 (Method 1108A)
-	Appearance of thermoplastics ancillary fittings for below ground gravity drainage and sewerage	BS 4660: 2000 Cl. 5
	Appearance of thermoplastics waste pipe and fittings	BS 5255: 1989 Cl. 4
	Impact test of plastic waste traps including bottle trap and U-trap	BS 3943: 1979 + Amd. 4692 Cl. 17 in conjunction with the following specification(s): Hong Kong Housing Authority Specification Library (2022) DRA1.M150.9(2)(f)(i)(v)
	Dimensions measurement of thermoplastic waste pipe and fittings	BS 5255: 1989 Cl. 5 in conjunction with the following specification(s): Hong Kong Housing Authority Specification Library (2022) DRA1.M150.9(2)(f)(i)(i) & (iii)
	Impact resistance of thermoplastics waste pipes and two-way floor drain	BS 5255: 1989 Cl. 6.2 in conjunction with the following specification(s): Hong Kong Housing Authority Specification Library (2022) DRA1.M150.9(2)(f)(i)(i)
	Leaktightness of thermoplastic pipes and fittings for non-pressure applications	BS 5255: 1989 Cl. 7.2 in conjunction with the following specification(s): Hong Kong Housing Authority Specification Library (2022) DRA1.M150.9(2)(f)(i)(i) & (iii)

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Pipes and fittings (cont'd)		
- Thermoplastics pipes and fittings (cont'd)	Heat reversion of thermoplastics waste pipes	BS 5255: 1989 Cl. 6.3 in conjunction with the following specification(s): Hong Kong Housing Authority Specification Library (2022) DRA1.M150.9(2)(f)(i)(i)
	Vicat softening temperature of thermoplastics waste pipes and two-way floor drain	BS 5255: 1989 Cl. 6.1 in conjunction with the following specification(s): Hong Kong Housing Authority Specification Library (2022) DRA1.M150.9(2)(f)(i)(i), (ii) & (vi)
	Vicat softening temperature of plastics W.C. connectors	BS 5627: 1984 + Amd. 5396 Cl. 7a.3 in conjunction with the following specification(s): Hong Kong Housing Authority Specification Library (2022) DRA1.M150.9(2)(f)(iii)
	Board stiffness of insulation ductboards	BS EN 13403: 2003 Cl. 7.1

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Pipes and fittings (cont'd)		
- Unplasticized poly(vinyl chloride) (PVC) pipes and fittings	Appearance of unplasticized PVC-U pressure pipes for cold potable water	BS 3505: 1986 Cl. 6.1.1 & 6.1.2
	Appearance of unplasticized PVC-U pipes and plastic fittings for below ground gravity drainage and sewerage	BS 4660: 1989 Cl. 4
	Appearance of unplasticized PVC soil and ventilating pipes, fittings and accessories	BS 4514: 1983 Cl. 3 BS 4514: 2001 Cl. 4
	Dimensions measurement of unplasticized PVC soil and ventilating pipes, fittings and accessories	BS 4514: 1983 Cl. 4.1 in conjunction with the following specification(s): Hong Kong Housing Authority Specification Library (2022) DRA1.M150.9(2)(f)(i)(ii) & (iv)
	Impact resistance of unplasticized PVC soil and ventilating pipes	BS 4514: 1983 Cl. 5.3 in conjunction with the following specification(s): Hong Kong Housing Authority Specification Library (2022) DRA1.M150.9(2)(f)(i)(ii)
	Heat reversion of unplasticized PVC soil and ventilating pipes	BS 4514: 1983 Cl. 5.4 in conjunction with the following specification(s): Hong Kong Housing Authority Specification Library (2022) DRA1.M150.9(2)(f)(i)(ii)
	Proof pressure resistance of unplasticized PVC soil and ventilating pipes, fabricated fittings	BS 4514: 1983 Cl. 5.6 in conjunction with the following specification(s): Hong Kong Housing Authority Specification Library (2022) DRA1.M150.9(2)(f)(i)(ii) & (iv)
	Tensile properties of unplasticized PVC soil and ventilating pipes	BS 4514: 1983 Cl. 5.2 in conjunction with the following specification(s): Hong Kong Housing Authority Specification Library (2022) DRA1.M150.9(2)(f)(i)(ii)
	Vicat softening temperature of unplasticized PVC soil and ventilating pipes, fittings and accessories	BS 4514: 1983 (Amd. 4517) Cl. 5.1 in conjunction with the following specification(s): Hong Kong Housing Authority Specification Library (2022) DRA1.M150.9(2)(f)(i)(ii) & (iv)

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Pulverized fuel ash (PFA)	Activity index	BS EN 196-1: 2005 in conjunction with the following specification: BS EN 450-1: 2012 Cl. 5.3.2
	Moisture content	BS 3892: Part 1: 1997 Annex C in conjunction with the following specification: BS 3892: Part 1: 1997 Cl. 5
	Fineness	BS 3892: Part 1: 1997 Annex D BS EN 451-2: 2017 in conjunction with the following specification(s): BS 3892: Part 1: 1997 Cl. 6 BS EN 450-1: 2012 Cl. 5.3.1
	Particle density	BS EN 196-6: 2010 Annex NC in conjunction with the following specification: BS 3892: Part 1: 1997 Cl. 7
	Water requirement	BS 3892: Part 1: 1997 Annex E with modification BS EN 450-1: 2012 Annex B in conjunction with the following specification(s): BS 3892: Part 1: 1997 Cl. 8 with modification BS EN 450-1: 2012 Cl. 5.3.6
	Strength factor	BS 3892: Part 1: 1997 Annex F with modification in conjunction with the following specification: BS 3892: Part 1: 1997 Cl. 9 with modification
	Standard consistence	BS EN 196-3: 2005 + A1: 2008 in conjunction with the following specification(s): BS 3892: Part 1: 1997 Cl. 10 with modification BS EN 450-1: 2012 Cl. 5.3.5
	Initial setting time	BS EN 196-3: 2005 + A1: 2008 in conjunction with the following specification(s): BS 3892: Part 1: 1997 Cl. 10 with modification BS EN 450-1: 2012 Cl. 5.3.5
	Soundness	BS EN 196-3: 2005 + A1: 2008 in conjunction with the following specification(s): BS 3892: Part 1: 1997 Cl. 11 with modification BS EN 450-1: 2012 Cl. 5.3.3

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Repair mortar	Making of test specimens	BS 6319: Part 1: 1983 & Hong Kong Housing Authority Materials Testing Services (2024/2027) for Maintenance and Building Materials Specification Part D Cl. 2.1.1
	Curing of test specimens	BS 6319: Part 1: 1983 & Hong Kong Housing Authority Materials Testing Services (2024/2027) for Maintenance and Building Materials Specification Part D Cl. 2.1.1
	Compressive strength of repair mortar cubes in the force range 20 kN – 1500 kN	BS 6319: Part 2: 1983 & Hong Kong Housing Authority Materials Testing Services (2024/2027) for Maintenance and Building Materials Specification Part D Cl. 2.1.1
	Tensile strength	BS 6319: Part 7: 1985 & Hong Kong Housing Authority Materials Testing Services (2024/2027) for Maintenance and Building Materials Specification Part D Cl. 2.1.3
	Modulus of elasticity in compression	BS 6319: Part 6: 1984 & Hong Kong Housing Authority Materials Testing Services (2024/2027) for Maintenance and Building Materials Specification Part D Cl. 2.1.4
	Coutinho ring shrinkage	Hong Kong Housing Authority Materials Testing Service (2024/2027) for Maintenance and Building Materials Specification Part D Cl. 2.1.6 Method 1
	Air permeability	Improvements to the Figg Method for the Air Permeability of Concrete by Cather, Figg, Mansden and O'Brien. Mag. Conc. Res 36 No. 129 Dec 1984 & Hong Kong Housing Authority Materials Testing Service (2024/2027) for Maintenance and Building Materials Specification Part D Cl. 2.1.7
	Bond strength of repair mortar systems	BS 6319: Part 7: 1985 & Hong Kong Housing Authority Materials Testing Service (2024/2027) for Maintenance and Building Materials Specification Part D Cl. 2.1.14
	Repair mortar inspection core	Hong Kong Housing Authority Materials Testing Services (2024/2027) for Maintenance and Building Materials Specification Part D Cl. 2.1.22
	Flow	BS 4551: Part 1: 1998

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Road surfaces	Texture depth of carriageways (by sand patch test)	General Specification for Civil Engineering Works (2006) Vol. 1 App. 10.1 General Specification for Civil Engineering Works (2020) Vol. 1 App. 10.1 Hong Kong Housing Authority Specification Library (2018) EXT2.T910.8 to EXT2.T1010.8 Hong Kong Housing Authority Specification Library (2022) EXT2.T910.9 to EXT2.T1010.9
	Surface regularity of carriageways (by a 3 meter / rolling straightedge method)	General Specification for Civil Engineering Works (2006) Vol. 1 Cl. 10.55 General Specification for Civil Engineering Works (2020) Vol. 1 Cl. 10.55 Hong Kong Housing Authority Specification Library (2018) EXT2.T810.8 to EXT2.T850.8 Hong Kong Housing Authority Specification Library (2022) EXT2.T810.9 to EXT2.T850.9
	Slip resistance of new/ existing pedestrian surface material by wet pendulum test	AS 4586: 2013 App. A AS 4663: 2013 App. A
	Skid resistance of road surfaces/markings using a portable pendulum tester	Highways Department (Research and Development Division) Guidance Notes on Road testing - RD/GN/009 (Sep 1989)
Rock	Direct shear strength of jointed rock	ASTM D5607-02 with modifications
	Point load strength index of rock by diametral and axial tests	ASTM D 5731-95 International Society for Rock Mechanics (1985) Suggested method for determining point load strength
	Preparation of rock core specimens and determination of dimensional and shape tolerances	ASTM 4543-85 (reapproved 1991) with modifications
	Unconfined compressive strength of intact rock core specimens	ASTM D2938-95 with modifications
Screed	In-situ crushing resistance of bonded and unbonded levelling screeds	BS 8204: Part 1: 1987 App. B BS 8204: Part 1: 1999 Annex C BS 8204: Part 1: 2003 + A1: 2009 Annex D

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Showers	Endurance test for flow controllers	AS/NZS 3662: 2013 App. F The Hong Kong Voluntary Water Efficiency Labelling Scheme on Showers for Bathing (Dec 2018) Annex1 Section II D
	Nominal flow rate	AS/NZS 3662: 2013 App. B The Hong Kong Voluntary Water Efficiency Labelling Scheme on Showers for Bathing (Dec 2018) Annex1 Section I
	Mean spray spread angle	AS/NZS 3662: 2013 App. C The Hong Kong Voluntary Water Efficiency Labelling Scheme on Showers for Bathing (Dec 2018) Annex1 Section II B
	Temperature drop	AS/NZS 3662: 2013 App. D The Hong Kong Voluntary Water Efficiency Labelling Scheme on Showers for Bathing (Dec 2018) Annex1 Section II C

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Soil (Phase I)	Moisture content by oven-drying at 45℃±5℃	GEOSPEC 3: 2001 Test 5.1 GEOSPEC 3: 2017 Test 5.1
	Moisture content by oven-drying at 105℃±5℃	GEOSPEC 3: 2001 Test 5.2 GEOSPEC 3: 2017 Test 5.2
	Comparative test for the determination of moisture content by oven-drying	GEOSPEC 3: 2001 Test 5.3 GEOSPEC 3: 2017 Test 5.3
	Liquid limit, plastic limit, and plasticity index	GEOSPEC 3: 2001 Test 6.1 GEOSPEC 3: 2017 Test 6.1
	Liquidity index	GEOSPEC 3: 2001 Test 6.2 GEOSPEC 3: 2017 Test 6.2
	Particle density by gas jar method	GEOSPEC 3: 2001 Test 7.1 GEOSPEC 3: 2017 Test 7.1
	Particle density by small pyknometer method	GEOSPEC 3: 2001 Test 7.2 GEOSPEC 3: 2017 Test 7.2
	Particle size distribution by wet sieving (with dispersant)	GEOSPEC 3: 2001 Test 8.1 GEOSPEC 3: 2017 Test 8.1
	Particle size distribution by wet sieving (without dispersant)	GEOSPEC 3: 2001 Test 8.2 GEOSPEC 3: 2017 Test 8.2
	Particle size distribution by hydrometer (with dispersant)	GEOSPEC 3: 2001 Test 8.5 GEOSPEC 3: 2017 Test 8.5
	Particle size distribution by hydrometer (without dispersant)	GEOSPEC 3: 2001 Test 8.6 GEOSPEC 3: 2017 Test 8.6
	Construction of a continuous particle size distribution curve from the results of wet-sieving and sedimentation tests	GEOSPEC 3: 2001 Test 8.7 GEOSPEC 3: 2017 Test 8.7
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a 1000cc mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.1 GEOSPEC 3: 2017 Test 10.1

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Soil (Phase I) (cont'd)	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a 1000cc mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.2 GEOSPEC 3: 2017 Test 10.2
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a CBR mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.3 GEOSPEC 3: 2017 Test 10.3
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a CBR mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.4 GEOSPEC 3: 2017 Test 10.4
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a 1000cc mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.5 GEOSPEC 3: 2017 Test 10.5
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a 1000cc mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.6 GEOSPEC 3: 2017 Test 10.6
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a CBR mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.7 GEOSPEC 3: 2017 Test 10.7
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a CBR mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.8 GEOSPEC 3: 2017 Test 10.8
	In-situ bulk density and in-situ dry density of soils by the sand replacement method suitable for fine- and medium-grained soils (with small pouring cylinder)	GEOSPEC 3: 2001 Test 11.1 GEOSPEC 3: 2017 Test 11.1

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Soil (Phase I) (cont'd)	In-situ bulk density and in-situ dry density of soils by the sand replacement method suitable for fine-, medium-, and coarse-grained soils (with large pouring cylinder)	GEOSPEC 3: 2001 Test 11.2 GEOSPEC 3: 2017 Test 11.2
	In-situ bulk density and in-situ dry density of soils by nuclear densometer method suitable for fine-and medium-grained soils	GEOSPEC 3: 2001 Test 11.3 GEOSPEC 3: 2017 Test 11.3
	Relative compaction of fill material	Buildings Department PNAP APP-15 (2005) Cl. 4 App. A GEOSPEC 3: 2001 Test 11.4 GEOSPEC 3: 2017 Test 11.4
	California Bearing Ratio (CBR)	BS 1377: Part 9: 1990 Cl. 4.3 GEOSPEC 3: 2001 Test 12.1 GEOSPEC 3: 2017 Test 12.1
	Density of soil by linear measurement method	BS 1377: Part 2: 1990 Cl. 7.2
Soil (Phase II)	One-dimensional consolidation test	GEOSPEC 3: 2001 Test 14.1 GEOSPEC 3: 2017 Test 14.1
	Isotropic compression test in a triaxial cell	GEOSPEC 3: 2001 Test 14.2 GEOSPEC 3: 2017 Test 14.2
	Unconsolidated undrained triaxial compression test without pore pressure measurement	GEOSPEC 3: 2001 Test 15.1 GEOSPEC 3: 2017 Test 15.1
	Isotropically consolidated undrained triaxial compression test with pore pressure measurement	GEOSPEC 3: 2001 Test 15.2 GEOSPEC 3: 2017 Test 15.2
	Isotropically consolidated drained triaxial compression test with measurement volume change	GEOSPEC 3: 2001 Test 15.3 GEOSPEC 3: 2017 Test 15.3
	Direct shear test (small shear box apparatus)	GEOSPEC 3: 2001 Test 16.1 GEOSPEC 3: 2017 Test 16.1

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Soil (other)	Dynamic probe test	General Specification for Civil Engineering Works (2006) Vol. 1 App. 7.1
	Soil nail performance	Architectural Services Department General Specification for Building (2017) Section 26, Geotechnical Works on Soil and Rock Slopes Cl. 26.42 Architectural Services Department General Specification for Building (2022) Section 26, Geotechnical Works on Soil and Rock Slopes Cl. 26.47
	Pull-out test of soil nails	Architectural Services Department General Specification for Building (2017) Section 26, Geotechnical Works on Soil and Rock Slopes Cl. 26.39 Architectural Services Department General Specification for Building (2022) Section 26, Geotechnical Works on Soil and Rock Slopes Cl. 26.44 General Specifications for Civil Engineering Works (2006) Vol. 1 Cl. 7.138 General Specifications for Civil Engineering Works (2020) Vol. 1 Cl. 7.144 GEOGUIDE 7 (2017) Cl. 6.3.2 Hong Kong Housing Authority Specification Library (2018) SLO.T315.7 & SLO.T320.7 Hong Kong Housing Authority Specification Library (2022) SLO.T315.8 & SLO.T320.9
	Time domain reflectometry (TDR) test on soil nails	Geotechnical Engineering Office Guidelines on Test Procedure using Time Domain Reflectometry (TDR) to determine the length of installed soil nails (July 2007)
	In-situ apparent resistivity of soil	BS 1377: Part 9: 1990 Cl. 5.1
	Resistivity of soil by Wenner probe method	BS 1377: Part 3: 1990 Cl. 10.3
	Resistivity of soil by open container method	BS 1377: Part 3: 1990 Cl. 10.4
	Redox potential	BS 1377: Part 3: 1990 Cl. 11

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Structural fixings	Tensile test of anchor and dowel bars by incremental loading in the force range 2 kN – 450 kN	BS 5080: Part 1: 1993 Cl. 6, 7.1.1 & 7.1.3
	Tensile proof load test of drilled-in anchors used for cantilevered structure/hanger/curtain wall remedial works by incremental loading in the force range 20 kN – 450 kN	Buildings Department PNAP APP-169 (Oct 2023) App. A
	Tensile proof load test of drilled-in anchors used for works other than cantilevered structure/ hanger/curtain wall remedial works in the force range 2 kN – 450 kN	Buildings Department PNAP APP-169 (Oct 2023) App. B
	Tensile proof load test for cementitious or polymer based grouted bolts or dowels or reinforcing bars works or/and steel T-bolts with cast-in channels in the force range 2 kN – 450 kN	Buildings Department PNAP APP-169 (Oct 2023) App. C
	Shear test of anchor and dowel bars by incremental loading in the force range 2 kN – 450 kN	BS 5080: Part 2: 1986 + Amd. 7602 Cl. 4, 7.1, 7.2.1 & 7.2.3
	Shear proof load test of drilled-in anchors used for cantilevered structure/hanger/curtain wall remedial works by incremental loading in the force range 20 kN – 450 kN	Buildings Department PNAP APP-169 (Oct 2023) App. A
	Shear proof load test of drilled-in anchors used for works other than cantilevered structure/ hanger/curtain wall remedial works in the force range 2 kN – 450 kN	Buildings Department PNAP APP-169 (Oct 2023) App. B
	Shear proof load test for cementitious or polymer based grouted bolts or dowels or reinforcing bars works or/and steel T-bolts with cast-in channels in the force range 2 kN – 450 kN	Buildings Department PNAP APP-169 (Oct 2023) App. C
	Tensile pull out testing to anchor device	BS 7883: 2005 Cl. 11.1.1 BS EN 795: 1997 Cl. 5.2.1

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Tiles	Length and width of ceramic floor and wall tiles	BS 6431: Part 10: 1984 + Amd. 7099 EN 98: 1991 Cl. 2
	Thickness of ceramic floors and wall tiles	BS 6431: Part 10: 1984 + Amd. 7099 EN 98: 1991 Cl. 3
	Straightness of sides of ceramic floor and wall tiles	BS 6431: Part 10: 1984 + Amd. 7099 EN 98: 1991 Cl. 4
	Rectangularity of ceramic floor and wall tiles	BS 6431: Part 10: 1984 + Amd. 7099 EN 98: 1991 Cl. 5
	Surface flatness of ceramic floor and wall tiles	BS 6431: Part 10: 1984 + Amd. 7099 EN 98: 1991 Cl. 6
	Water absorption of ceramic floor and wall tiles	BS 6431: Part 11: 1983 + Amd. 7100 EN 99: 1991
	Mohs hardness	BS 6431: Part 13: 1986 + Amd. 7102 EN 101: 1991
	Resistance to deep abrasion of unglazed ceramic tiles	BS 6431: Part 14: 1983 + Amd. 7103 EN 102: 1991
	Linear thermal expansion of ceramic tiles	BS 6431: Part 15: 1983 + Amd. 7104 EN 103: 1991
	Resistance to thermal shock	BS 6431: Part 16: 1983 + Amd. 7105 EN 104: 1991
	Crazing resistance of glazed ceramic tiles	BS 6431: Part 17: 1983 + Amd. 7106 EN 105: 1991

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Tiles (cont'd)	Resistance to surface abrasion of glazed ceramic floor and wall tiles (PEI method)	BS 6431: Part 20: 1984 + Amd. 7109 EN 154: 1991
	Surface quality of ceramic floor and wall tiles	BS 6431: Part 10: 1984 + Amd. 7099 EN 98: 1991 Cl. 7
	Measurement of spacer lugs of ceramic tiles	In-house method CTILE-SPACER-LUGS
	Modulus of rupture of ceramic floor and wall tiles	BS 6431: Part 12: 1983 + Amd. 7101 EN 100: 1991
	Chemical resistance of glazed ceramic floor and wall tiles	BS 6431: Part 19: 1984 EN 122: 1991 + Amd. 7108
	Chemical resistance of unglazed ceramic floor and wall tiles	BS 6431: Part 18: 1983 EN 106: 1991 + Amd. 7101
	Length and width of ceramic tiles tiles	BS EN ISO 10545-2: 1997 Cl. 2
	Thickness of ceramic tiles	BS EN ISO 10545-2: 1997 Cl. 3
	Straightness of side of ceramic tiles	BS EN ISO 10545-2: 1997 Cl. 4
	Rectangularity of ceramic tiles	BS EN ISO 10545-2: 1997 Cl. 5
	Surface flatness of ceramic tiles	BS EN ISO 10545-2: 1997 Cl. 6
	Surface quality of ceramic tiles	BS EN ISO 10545-2: 1997 Cl. 7
	Water absorption, apparent porosity, apparent relative density and bulk density of ceramic tiles	BS EN ISO 10545-3: 1997 BS EN ISO 10545-3: 2018

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Tiles (cont'd)	Modulus of rupture and breaking strength of ceramic tiles	BS EN ISO 10545-4: 1997 BS EN ISO 10545-4: 2014
	Impact resistance by measurement of coefficient of restitution	BS EN ISO 10545-5: 1998
	Resistance to deep abrasion for unglazed ceramic tiles	BS EN ISO 10545-6: 1997
	Resistance to surface abrasion of glazed ceramic tiles	BS EN ISO 10545-7: 1997
	Linear thermal expansion of ceramic tiles	BS EN ISO 10545-8: 1996 BS EN ISO 10545-8: 2014
	Resistance to themal shock of ceramic tiles	BS EN ISO 10545-9: 1996
	Moisture Expansion	BS EN ISO 10545-10: 1997
	Crazing resistance for glazed ceramic tiles	BS EN ISO 10545-11: 1996
	Chemical resistance of ceramic tiles	BS EN ISO 10545-13: 1997 BS EN ISO 10545-13: 2016
	Resistance to stains of ceramic tiles	BS EN ISO 10545-14: 1997
	Small colour difference	BS EN ISO 10545-16: 2000
	Static coefficient of friction of ceramic tiles	ASTM C1028-07

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Tile adhesives	Initial tensile adhesion strength	BS EN 1348: 2007 BS EN 12004-2: 2017
	Tensile adhesion strength after water immersion	BS EN 1348: 2007 BS EN 12004-2: 2017
	Tensile adhesion strength after heat ageing	BS EN 1348: 2007 BS EN 12004-2: 2017
	Tensile adhesion strength after freeze-thaw cycles	BS EN 1348: 2007 BS EN 12004-2: 2017
	Open time: tensile adhesion strength	BS EN 1346: 2007 BS EN 12004-2: 2017
	Early tensile adhesion strength	BS EN 1348: 2007 BS EN 12004-2: 2017
	Slip	BS EN 1308: 2007 BS EN 12004-2: 2017
Tile grout	Water absorption	ANSI A118.6-1992 Cl. H3.4
Underground utility survey	Pipe cable locating / Electromagnetic locating	Specifications for Nondestructive Testing, Surveying, Imaging and Diagnostic for Underground Utilities - 1.1 Pipe Cable Locating / Electromagnetic Locating (2019) published by Department of Land Surveying and Geo-informatics (LSGI) of The Hong Kong Polytechnic University

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Valves	Coating thickness measurement of valves	Water Industry Specificaion 4-52-01 Dec 1992: Issue 1 App. B in conjunction with the following specification(s): Water Industry Specificaion 4-52-01 Dec 1992: Issue 1 Cl. 12.7.1
	Dimensions of copper alloy check & gate valves	In-house method VAL-COPPER-DIM-BS5154 in conjunction with the following specification(s): BS 5154: 1991 Cl. 8 Tables 4, 5, 7 and 8
	Dimensions of copper alloy gate valves	In-house method VAL-COPPER-DIM-EN12288 in conjunction with the following specification(s): BS EN 12288: 2010 Cl. 4.2.4
	Dimensions of expansion joint, settlement joint, flexible joint and strainer	In-house method VAL-Strainer-DIM
	Hydrostatic shell and seat tests of cast iron check valves	BS 6755: Part 1: 1986 BS EN 12266-1: 2003 in conjunction with the following specification(s): BS 5153: 1974 + Amd. 1, 2 & 3 Cl. 18
	Hydrostatic shell and seat tests of cast iron gate valves	BS 6755: Part 1: 1986 BS EN 12266-1: 2003 in conjunction with the following specification(s): BS 5150: 1990 Cl. 18
	Hydrostatic shell and seat tests of copper alloy globe, globe stop and check, check and gate valves	BS 6755: Part 1: 1986 BS EN 12266-1: 2003 in conjunction with the following specification(s): BS 5154: 1991 Cl. 11
	Hydrostatic shell and seat tests of predominantly key-operated cast iron gate valves for waterworks purposes	BS 6755: Part 1: 1986 BS EN 12266-1: 2003 in conjunction with the following specification(s): BS 5163: 1986 + Amd. 1 & 2 Cl. 19
	Resistance to operating loads of isolating valves	BS EN 1074-2: 2000 + A1: 2004 Annex A in conjunction with the following specification(s): BS EN 1074-2: 2000 + A1: 2004 Cl. 5.1.4

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Valves (cont'd)	Shell and seat tightness of metallic and copper alloy gate valves	BS EN 12266-1: 2012 Cl. A3 & A4 in conjunction with the following specification(s): BS EN 12288: 2010 Cl. 5.1
	Testing of resistance and leak-tightness to internal pressure of the shell and of all pressure containing components and seat tightness at high differential pressure of valves for water supply-fitness for purposes requirements and appropriate verification tests	BS EN 1074: Part 1 to 4: 2000

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Water closet suites		
- Cistern	Shell thickness	BS 7357: 1990 Cl. 5.1.3
	Spill-over level	BS 7357: 1990 Figure 1
	Dead load test on operating mechanism (push buttom only)	BS 7357: 1990 App. H.3
	Visual examination	BS 3402: 1969 Table 2
	Warning pipe connection	BS 7357: 1990 Cl. 13.1 BS EN 997: 2003 Cl. 6.17.2 BS EN 997: 2018 Cl. 6.17.2
	Flushing apparatus torque	BS 7357: 1990 App. D
	Physical endurance of flushing device	BS EN 997: 2003 Cl. 6.17.5 BS EN 997: 2012 + A1: 2015 Cl. 6.17.5 BS EN 997: 2018 Cl. 6.17.5
	Valve reliability	BS EN 997: 2003 Cl. 5.8.6 BS EN 997: 2018 Cl. 5.7.5.4
	Chemical endurance of flushing device	BS EN 997: 2003 Cl. 6.17.6 BS EN 997: 2018 Cl. 6.17.6
- Compact type float operated valve	Distortion for backnuts and inlet shank (bottom entry type only)	BS 1212 Part 3: 1990 Cl. 13.1 & App. A.2.2 with modifications
	Static pressure	BS 1212 Part 3: 1990 Cl. 14.1 with modifications
	Shut-off pressure	BS 1212 Part 3: 1990 Cl. 14.2 & App. D with modifications
	Dynamic pressure	BS 1212 Part 3: 1990 Cl. 14.3 & App. E with modifications
	Endurance	BS 1212 Part 3: 1990 Cl. 17 & App. H with modifications
	Backflow prevention	BS 1212 Part 3: 1990 Cl. 15 & App. F with modifications

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Water closet suites (cont'd)		
- Completed assembly	Flushing volume & water trap seal	BS EN 997: 2003 Cl. 6.17.3 BS EN 997: 2012 + A1: 2015 Cl. 6.17.3 BS EN 997: 2018 Cl. 6.17.3
	Flushing rate	BS EN 997: 2003 Cl. 6.17.4 BS EN 997: 2012 + A1: 2015 Cl. 6.17.4 BS EN 997: 2018 Cl. 6.17.4
	Flushing	BS 7358: 1990 App. A
	Volume of discharge	BS 7358: 1990 App. B
	Solid discharge and after-flush volume for maximum flush volume	BS EN 997: 2003 Cl. 6.17.7 BS EN 997: 2018 Cl. 6.17.7
	Paper discharge for reduced-flush volume	BS EN 997: 2003 Cl. 6.17.8 BS EN 997: 2018 Cl. 6.17.8
	Liquid contaminant dye retention	BS EN 997: 2003 Cl. 6.17.9 BS EN 997: 2018 Cl. 6.17.9
	Wash of bowl	BS EN 997: 2003 Cl. 6.17.10 BS EN 997: 2018 Cl. 6.17.10
- WC Pan	Connection dimensions	BS EN 33: 2011 Cl. 2.2 Table 3 & 4, Cl. 4 Table 8 Figure 2 & 3a
	Height from base to top surface	Hong Kong Housing Authority Specification Library (2022) Cl. PLU2.M110.9(2)(b)(i)
	Visual examination	BS 3402: 1969 Table 1
	Water absorption	BS EN 997: 2003 Cl. 5.8.3 BS EN 997: 2018 Cl. 5.7.3 BS 3402: 1969 App. A
	Crazing	BS 3402: 1969 App. B
	Chemical resistance	BS 3402: 1969 App. C
	Resistance to staining & burning	BS 3402: 1969 App. D
	Static load test (pedestal ceramic only)	BS EN 997: 2003 Cl. 5.8.4 BS EN 997: 2018 Cl. 5.7.4

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Welds (destructive)	Bend test on welds in metallic materials	BS EN 910: 1996 BS EN ISO 5173: 2010 + A1 : 2011
	Fracture test on welds in metallic materials	BS EN 1320: 1997 BS EN ISO 9017: 2018
	Transverse tensile test on welds in metallic materials in the force range 2 kN – 2500 kN	BS EN 895: 1995 BS EN ISO 4136 : 2012
	Longitudinal tensile test on welds in metallic materials in the force range 2 kN – 2500 kN	BS EN 876: 1995 BS EN ISO 5178 : 2011
	Tensile test on welded reinforcing steel for concrete in the force range 10 kN to 2000 kN	BS 7123: 1989 Cl. 12.3.5
	Tensile test on welded reinforcing steel for concrete in the force range 10 kN to 2000 kN	BS EN ISO 17660-1: 2006 Cl. 14.2
	Bend test on welded reinforcing steel for concrete	BS EN ISO 17660-1: 2006 Cl. 14.4
	Impact test on welds in metallic materials	BS EN 875: 1995 BS EN ISO 9016 : 2012
	Vickers hardness test across welded joints in scale range HV5 and HV10	BS EN 1043: Part 1: 1996 BS EN ISO 9015-1 : 2011
	Macroscopic and microscopic examination on welds in metallic materials	BS EN 1321: 1997 BS EN ISO 17639 : 2013
	Slow bend test for crane rail	In-house method RD-SBEND-CRAIL
	Marco test on welded reinforcing steel for concrete	BS 7123: 1989 Cl. 12.3.6

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Welds (non-destructive)	Magnetic particle test (Magnetic flow method colour contrast technique using permanent magnets, D.C. and A.C. yokes)	BS 6072: 1981 (1986) BS EN 1290: 1998 BS EN ISO 9934-1: 2001 BS EN ISO 9934-1: 2016 BS EN ISO 17638: 2009 BS EN ISO 17638: 2016 in conjunction with the following specification(s): BS 4515-1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 BS EN 25817: 1992 Table 1 BS EN ISO 5817: 2003 Table 1 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b
	Liquid penetrant test (Colour contrast method)	BS 6443: 1984 BS EN 571-1: 1997 BS EN ISO 3452-1: 2013 in conjunction with the following specification(s): BS 4515-1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 BS EN 25817: 1992 Table 1 BS EN ISO 5817: 2003 Table 1 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b
	Ultrasonic test (Butt welds in plates & pipes, 'T'-joint welds, nozzle welds and node welds)	BS 3923: Part 1: 1986 (Level 1, 2a, 2b & 3) BS EN 1714: 1998 (Level A, B, & C) BS EN ISO 17640: 2010 (Level A, B, & C) BS EN ISO 17640: 2018 (Level A, B, & C) in conjunction with the following specification(s): BS 4515-1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 BS EN 25817: 1992 Table 1 BS EN ISO 5817: 2003 Table 1 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Welds (non-destructive) (cont'd)	Radiographic examination (X-Ray)	BS 2600: Part 1: 1983 BS 2910: 1986 BS EN 1435: 1997 BS EN ISO 17636-1: 2013 in conjunction with the following specification(s): BS 4515-1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 BS EN 25817: 1992 Table 1 BS EN ISO 5817: 2003 Table 1 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b
	Radiographic examination (Gamma Ray)	BS 2600: Part 1: 1983 BS 2910: 1986 BS EN 1435: 1997 BS EN ISO 17636-1: 2013 in conjunction with the following specification(s): BS 4515-1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 BS EN 25817: 1992 Table 1 BS EN ISO 5817: 2003 Table 1 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b
	Visual examination	BS 5289: 1976 BS 7123: 1989 Cl. 13.5 BS EN 970: 1997 BS EN ISO 17637: 2011 BS EN ISO 17637: 2016 in conjunction with the following specification(s): BS 4515-1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 BS 7123: 1989 Table 7 BS EN 25817: 1992 Table 1 BS EN ISO 5817: 2003 Table 1 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Welds (non-destructive) (cont'd)	Visual examination and bend test on stud connectors	<Visual examination as follows:> BS 5289: 1976 BS 7123: 1989 BS EN 970: 1997 BS EN ISO 17637: 2011 BS EN ISO 17637: 2016 <together with the following bend test method(s):> BS EN ISO 14555: 2006 Cl. 11.2, 11.3 (excluding Torque wrench method), 12.2 & 12.3 BS EN ISO 14555: 2017 Cl. 11.2, 11.3 (excluding Torque wrench method), 12.2 & 12.3 Buildings Department Code of Practice for the Structural Use of Steel (2005) Cl. 14.3.7.3 Buildings Department Code of Practice for the Structural Use of Steel (2011) Cl. 14.3.7.3

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Windows	Dimension test – overall size	Hong Kong Housing Authority Specification Library (2018) COM2.M005.8(2)(a)(i) Hong Kong Housing Authority Specification Library (2022) COM2.M005.9(2)(a)(i)
	Dimension tests – individual members	BS 1474: 1987 Cl. 7.4
	Operating forces (for side hung and top hung only)	BS EN 12046-1: 2003 in conjunction with the following specification: BS 6375: Part 2: 2009 Cl. 5.1
	Resistance to static torsion (for side hung and top hung only)	BS EN 14609: 2004 in conjunction with the following specification: BS 6375: Part 2: 2009 Cl. 5.2.1
	Resistance to racking (for side hung and top hung only)	BS EN 14608: 2004 in conjunction with the following specification: BS 6375: Part 2: 2009 Cl. 5.2.2
	Endurance of fastener / hardware (for side hung and top hung only)	
	- Operation of fastener	SS212: 2007 Cl. 10.2.2 & Annex E Test 1
	- Movement of sash	SS212: 2007 Cl. 10.2.2 & Annex E Test 2
	- Endurance of fastener/hardware	SS212: 2007 Cl. 10.2.2 & Annex E Test 8
	Visual inspection on coating	BS 3987: 1991 Cl. 3 & App. G
	Thickness of coating	BS EN ISO 1463: 1995
	Hardness test of rubber	BS 903-A26: 1995, ISO 48: 1994 (method N)
	Heat resistance and accelerated ageing tests of rubber	BS 903-A19: 1998 (Method A - Air oven method)

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
6/F, Techno Centre, 33 On Kui Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

Chemical Testing 化學測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Ferric Chloride Solution	Assay of ferric chloride	GB4482-2006 Section 5.1
Sodium Bisulphite	Assay of sodium bisulphite	HG/T3814-2006 cl. 4.3
Sodium Chlorite	Assay of sodium chlorite	HG/T3250-2010 cl. 5.4
Sodium Hypochlorite Solution	Available chlorine	ASTM D2022-89 (Reapproved 2008) cl. 6 to 9 GB 19106-2003 cl.5.1
Sodium Hydroxide Solution	Determination of sodium hydroxide	GB/T4348.1-2000 ***<Excluding determination of sodium carbonate>***

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
6/F, Techno Centre, 33 On Kui Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

Chinese Medicine 中藥		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Proprietary Chinese Medicines (pCM)	Microbiological examinations:-	
	- 微生物限度檢查法 Microbial Limit Test 細菌數 Aerobic bacteria count 霉菌與酵母菌數 Mold and Yeast count 大腸桿菌 *E. coli* 沙門菌 *Salmonella* species 金黃色葡萄球菌 *Staphylococcus aureus* 銅綠假單胞菌 *Pseudomonas aeruginosa*	中華人民共和國藥典 2000 年版一部附錄 XIIIC Pharmacopoeia of the People's Republic of China 2000, Volume I, App. XIIIC
	細菌數 Aerobic bacteria count 霉菌與酵母菌數 Mould and yeast count 大腸埃希菌 *E. coli* 沙門菌 *Salmonella* species 金黃色葡萄球菌 *Staphylococcus aureus* 銅綠假單胞菌 *Pseudomonas aeruginosa* 大腸菌群 Coliform 梭菌 *Clostridium* 白色念珠菌 *Candida albicans*	中華人民共和國藥典 2010 年版一部附錄 XIIIC Pharmacopoeia of the People's Republic of China, 2010, Volume I, App. XIII C

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
6/F, Techno Centre, 33 On Kui Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

Chinese Medicine 中藥

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Proprietary Chinese medicine (pCm)	Microbiological examinations (Cont'd):-	
非無菌不含藥材原粉的中藥製劑 Non-sterile pCm products without crude drug powder	非無菌药品微生物限度標準 Microbial Limits for Non-sterile Pharmaceutical Products	中華人民共和國藥典 2015 年版四部 1107 段點 3 Pharmacopoeia of the People's Republic of China 2015, Volume IV, Part 1107 Cl.3
非無菌含藥材原粉的中藥製劑 Non-sterile pCm products with crude drug powder		中華人民共和國藥典 2015 年版四部 1107 段點 4 Pharmacopoeia of the People's Republic of China 2015, Volume IV, Part 1107 Cl.4
非無菌藥用原料及輔料 Non-sterile pCm Substances for Pharmaceutical Use		中華人民共和國藥典 2015 年版四部 1107 段點 5 Pharmacopoeia of the People's Republic of China 2015, Volume IV, Part 1107 Cl.5
中藥提取物及中藥飲片 Chinese Medicine Extracts and Decoction of Chinese Medicine		中華人民共和國藥典 2015 年版四部 1107 段點 6 Pharmacopoeia of the People's Republic of China 2015, Volume IV, Part 1107 Cl.6
	- Microbial Enumeration Tests and Tests for Specified Microorganisms - 微生物計數法及控制菌檢查法 需氧菌總數 Total Aerobic Microbial Count 霉菌和酵母菌總數 Total Molds and Yeasts Count 耐膽鹽革蘭陰性菌 Bile-tolerant Gram negative bacteria 大腸埃希菌 *E. coli* 沙門菌 *Salmonella* species 銅綠假單胞菌 *Pseudomonas aeruginosa* 金黃色葡萄球菌 *Staphylococcus aureus* 梭菌 *Clostridium* 白色念珠菌 *Candida albicans*	*Test Procedures for compliance testing*: 中華人民共和國藥典 2015 年版四部 1105 段及 1106 段 Pharmacopoeia of the People's Republic of China 2015, Volume IV, Parts 1105 & 1106

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
6/F, Techno Centre, 33 On Kui Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

Chinese Medicine 中藥

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Proprietary Chinese medicine (pCm)	Microbiological examinations (Cont'd):-	
非無菌不含藥材原粉的 中藥製劑 Non-sterile pCm products without crude drug powder	非無菌药品微生物限度標準 Microbial Limits for Non-sterile Pharmaceutical Products	中華人民共和國藥典 2020 年版四部 1107 段點 3 及點 8 Pharmacopoeia of the People's Republic of China 2020, Volume IV, Part 1107 Cl. 3 & Cl. 8
非無菌含藥材原粉的 中藥製劑 Non-sterile pCm products with crude drug powder		中華人民共和國藥典 2020 年版四部 1107 段點 4 及點 8 Pharmacopoeia of the People's Republic of China 2020, Volume IV, Part 1107 Cl. 4 & Cl. 8
非無菌藥用原料及輔料 Non-sterile pCm Substances for Pharmaceutical Use		中華人民共和國藥典 2020 年版四部 1107 段點 5 及點 8 Pharmacopoeia of the People's Republic of China 2020, Volume IV, Part 1107 Cl. 5 & Cl. 8
中藥提取物 Chinese Medicine Extracts		中華人民共和國藥典 2020 年版四部 1107 段點 6 及點 8 Pharmacopoeia of the People's Republic of China 2020, Volume IV, Part 1107 Cl. 6 & Cl. 8
	- 微生物計數法及控制菌檢查法 Microbial Enumeration Tests and Tests for Specified Microorganisms 需氧菌總數 Total Aerobic Microbial Count 霉菌和酵母菌總數 Total Molds and Yeasts Count 耐膽鹽革蘭陰性菌 Bile-tolerant Gram negative bacteria 大腸埃希菌 *E. coli* 沙門菌 *Salmonella* species 銅綠假單胞菌 *Pseudomonas aeruginosa* 金黃色葡萄球菌 *Staphylococcus aureus* 梭菌 *Clostridium* 白色念珠菌 *Candida albicans*	*Test Procedures for compliance testing*: 中華人民共和國藥典 2020 年版四部 1105 段及 1106 段 Pharmacopoeia of the People's Republic of China 2020,Volume IV, Parts 1105 & 1106

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
6/F, Techno Centre, 33 On Kui Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

Chinese Medicine 中藥

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Proprietary Chinese medicine (pCm) 中藥飲片 Decoction of Chinese Herbal Medicines	Microbiological examinations (Cont'd):- 非無菌药品微生物限度標準 Microbial Limits for Non-sterile Pharmaceutical Products - 微生物計數法及控制菌檢查法 Microbial Enumeration Tests and Tests for Specified Microorganisms 需氧菌總數 Total Aerobic Microbial Count 霉菌和酵母菌總數 Total Molds and Yeasts Count 耐膽鹽革蘭陰性菌 Bile-tolerant Gram negative bacteria 大腸埃希菌 *E. coli* 沙門菌 *Salmonella* species	 中華人民共和國藥典2020年版四部 1107段點6及點8 Pharmacopoeia of the People's Republic of China 2020, Volume IV, Part 1107 Cl. 6 & Cl. 8 *Test Procedures for compliance testing*: 中華人民共和國藥典 2020 年版四部 1108 段 Pharmacopoeia of the People's Republic of China 2020,Volume IV, Part 1108

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
6/F, Techno Centre, 33 On Kui Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

Chinese Medicine 中藥

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Proprietary Chinese medicine (pCm) 中藥飲片 Decoction of Chinese Herbal Medicines (Cont'd)	Microbiological examinations (Cont'd):- - 微生物計數法及控制菌檢查法 Microbial Enumeration Tests and Tests for Specified Microorganisms 耐熱菌總數 需氧菌總數 Total Aerobic Microbial Count 霉菌和酵母菌總數 Total Molds and Yeasts Count 耐膽鹽革蘭陰性菌 Bile-tolerant Gram negative bacteria 大腸埃希菌 *E. coli* 沙門菌 *Salmonella* species	中華人民共和國藥典 2020 年版四部 1108 段 Pharmacopoeia of the People's Republic of China 2020,Volume IV, Part 1108

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
6/F, Techno Centre, 33 On Kui Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

Chinese Medicine 中藥		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Toxic elements: -	
Proprietary Chinese Medicines (pCHM)	- Mercury	In-house method FD-TCM-HM2 (ICP-MS)
	- Cadmium	In-house method FD-TCM-HM8 (ICP-MS)
Proprietary Chinese Medicines and Chinese Herbal Medicines	- Arsenic, Cadmium, Copper, Lead and Mercury	In-house method FD-TCM-HM1 (ICP-OES)
Decoction of Chinese Herbal Medicines (dCHM)	- Arsenic, Cadmium, Copper, Lead and Mercury	In-house method FD-TCM-HM7 (ICP-MS)
	Pesticides residues:-	
Ointments, liniments and plasters	- Organochlorine pesticides: Aldrin, Dieldrin, Endrin, cis-Chlordane, trans-Chlordane, Oxychlordane, Heptachlor, Heptachlor epoxide, Hexachlorocyclohexane isomers (alpha-, beta- and delta-BHC), Lindane, Hexachlorobenzene, Methyl pentachlorophenyl sulphide, Pentachloroaniline, Quintozene (pentachloronitrobenzene), 2,4'-DDT, 4,4'-DDT, 4,4'-DDE and 4,4'-DDD	In-house method FD-TCM-PEST-2 (GC-ECD/GC-MSD)
Proprietary Chinese Medicines and Chinese Herbal Medicines	- Organochlorine pesticides: Aldrin, Dieldrin, Endrin, cis-Chlordane, trans-Chlordane, Oxychlordane, Heptachlor, Heptachlor epoxide, Hexachlorocyclohexane isomers (alpha-, beta- and delta-BHC), Lindane, Hexachlorobenzene, Methyl pentachlorophenyl sulphide, Pentachloroaniline, Quintozene (pentachloronitrobenzene), 2,4'-DDT, 4,4'-DDT, 4,4'-DDE and 4,4'-DDD	In-house method FD-TCM-PEST-1 (GC-ECD/GC-MSD)

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
6/F, Techno Centre, 33 On Kui Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

Chinese Medicine 中藥

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Pesticides residues (Cont'd):-	
Chinese Herbal Medicines (CHM), Decoction of Chinese Herbal Medicines (dCHM) and Concentrated Granules of Chinese Herbal Medicines (gCHM) ***<Excluding the following>*** CHM of mineral origin, dCHM containing materials of mineral origin, gCHM containing materials of mineral origin	- Organochlorine pesticides: Endosulfan I, Endosulfan II and Endosulfan sulphate	In-house method FD-TCM-PEST-7 (GC-ECD for quantitation and GC-MSD for confirmation)
	Mycotoxins: - - Aflatoxins B_1, B_2, G_1, G_2 - Sum of aflatoxins B_1, B_2, G_1 and G_2	In-house method FD-CHM-AFLAT1 (screening by LC/MS/MS and quantitation by HPLC-FLD)
	- Sulphur dioxide	In-house method FD-CHM-SO_2-1 (Distillation-titrimetric method)
Chinese Materia Medica 中藥材	Toxic elements :- Arsenic, Cadmium, Lead and Mercury	Hong Kong Chinese Materia Medica Standards Volume 1-4, Appendix V 香港中藥材標準第一至四冊 ，附錄Ⅴ
Radix Ginseng 人參	- Physicochemical Identification 理化鑒別 - Thin-layer chromatographic identification 薄層色譜鑒別 - High-Performance Liquid Chromatographic Fingerprinting 高效液相色譜指紋圖譜鑒別 - Assay 含量測定 - Microscopic identification 顯微鑒別	Hong Kong Chinese Materia Medica Standards Volume 1 香港中藥材標準第一冊

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
6/F, Techno Centre, 33 On Kui Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

Chinese Medicine 中藥

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
藥劑產品 Pharmaceutical Products	製劑通則 General requiremetnts for preparation:-	中華人民共和國藥典2010年版一部 (中文版) Pharmacopoeia of the People's Repbulic of China 2010, Volume 1 (Chinese Edition)
散劑 Powder		附錄 I B App. I B *Test procedures for compliance testing:-*
	水份(烘乾法) water (Drying in oven method)	水份測定按附錄 IX H 水份測定法第一法 (烘乾法) Determination of water in accordance with App. IX H (Drying in oven method)
	裝量差異 Filling variation	附錄 I B [裝量差異] App. IB (Filling variation)
顆粒劑 Granules		附錄 I C App. I C *Test procedures for compliance testing:-*
	水份(烘乾法) water (Drying in oven method)	水份測定按附錄 IX H 水份測定法第一法 (烘乾法) Determination of water in accordance with App. IX H (Drying in oven method)
	裝量差異 Filling variation	附錄 I C [裝量差異] App. I C (Filling variation)
片劑 Tablets		附錄 I D App. I D *Test procedures for compliance testing:-*
	重量差異 Weight variation	附錄 I D [重量差異] App. I D (Weight variation)
	溶散時限 Disintegration test	溶散時限 / 崩解時限按附錄 XIIA Disintegration in accordance with App. XIIA

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
6/F, Techno Centre, 33 On Kui Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

Chinese Medicine 中藥

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
藥劑產品 Pharmaceutical Products (cont'd)	製劑通則 General requiremetnts for preparation:- (cont'd)	中華人民共和國藥典2010年版一部 (中文版) Pharmacopoeia of the People's Repbulic of China 2010, Volume 1 (Chinese Edition)
膠囊劑 Capsules		附錄 I L App. I L *Test procedures for compliance testing:-*
	水份(烘乾法) Water (Drying in oven method)	水份測定按附錄 IX H 水份測定法第一法 (烘乾法) Determination of water in accordance with App. IX H (Drying in oven method)
	裝量差異 Filling variation	附錄 I L [裝量差異] App. I L (Filling variation)
	溶散測時限 Disintegration test	溶散時限 / 崩解時限按附錄 XIIA Disintegration in accordance with App. XIIA
丸劑 Pills		附錄 I A App. I A *Test procedures for compliance testing:-*
	水份(烘乾法) Water (Drying in oven method)	水份測定按附錄 IX H 水份測定法第一法 (烘乾法) Determination of water in accordance with App. IX H (Drying in oven method)
	重量差異 Weight variation	附錄 I A [重量差異] App. I A (Weight variation)
	裝量差異 Filling variation	附錄 I A [裝量差異] App. I A (Filling variation)
	溶散時限 Disintegration test	溶散時限 / 崩解時限按附錄 XIIA Disintegration in accordance with App. XIIA

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
6/F, Techno Centre, 33 On Kui Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Admixture (chemical analysis)	Dry material content	BS 5075 : Part 1 : 1982 (Amd 4183 & 4910) App. D1
	Conventional dry material content	BS EN 480 : Part 8 : 1997
	Ash content	BS 5075 : Part 1 : 1982 (Amd 4183 & 4910) App. D2
	Chloride ion content	BS 5075 : Part 1 : 1982 (Amd 4183 & 4910) App. E
	Relative density (liquid)	BS 5075 : Part 1 : 1982 (Amd 4183 & 4910) App. D3
	Nitric acid soluble sodium oxide and potassium oxide contents	In-house Method ADM-CML.Na-K
	Density (liquid)	ISO 758 : 1976 (E)
	Water soluble chloride content	BS EN 480 : Part 10 : 2009 (Method 3)
	Sodiun oxide content	BS EN 480 : Part 12 : 2005
	Potassium oxide content	BS EN 480 : Part 12 : 2005
	Alkali content	BS EN 480 : Part 12 : 2005
	pH value	ISO 4316 : 1977 (E)

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
6/F, Techno Centre, 33 On Kui Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Aggregates (chemical analysis)	Water-soluble chloride content	BS 812: Part 117 : 1988 App. C *Excluding* Cl. 4
	Acid-soluble chloride ion content	CS3: 2013 Section 21.4
	Water-soluble chloride ion content	CS3: 2013 Section 21.3
	Acid-soluble sulphate content	CS3: 2013 Section 21.5
	Total sulphur content	CS3: 2013 Section 21.6
	Water-soluble sulphate content	BS 812: Part 118 : 1988 Cl. 5 (Gravimetric) ***<Excluding Cl. 4>***
	Total sulphate (acid extraction)	BS 812: Part 118 : 1988 Cl. 6 ***<Excluding Cl. 4>***
	Acid-soluble material	BS 812: Part 119 : 1985 <***Excluding Cl. 4***>
	Soluble silica (SiO_2)	HKHA MTS (04/06) Specification Part D Cl. 1.4.9
	Soluble calcium oxide (CaO)	HKHA MTS (04/06) Specification Part D Cl. 1.4.9
	Potential reactivity	ASTM C289-87 <***Excluding Cl. 10 and Cl. 14.4***> ASTM C289-94 <***Excluding Cl. 9 and App. X1***>
	Presence of humus	CS3: 2013 Section 21.7
	Water-soluble chloride salt content	BS EN 1744-1:2009 A1:2012 Cl. 7 (Reference method) ***<Excluding Cl. 7.2>***
	Water-soluble sulfate content	BS EN 1744-1:2009 A1:2012 Cl. 10.1 ***<Excluding Cl. 10.1.2>***
	Acid-soluble sulfate content	BS EN 1744-1:2009 A1:2012 Cl. 12 ***<Excluding Cl. 12.2>***

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
6/F, Techno Centre, 33 On Kui Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Cement (chemical analysis)	Heat of hydration	BS 4550 : Part 3 : Section 3.8 : 1978 with modification
	Aluminium oxide content	BS EN 196-2 : 2005 Cl. 13.11
	Calcium oxide content	BS EN 196-2 : 2005 Cl. 13.12 (Reference method)
	Chloride ion content (Cl^-)	BS EN 196-21 : 1992 Cl. 4 BS EN 196-2 : 2005 Cl. 14 BS EN 196-2 : 2013 Cl. 4.5.16
	Residue insoluble in hydrochloric acid and sodium carbonate	BS EN 196-2 : 1995 Cl. 9 BS EN 196-2 : 2005 Cl. 9 BS EN 196-2 : 2013 Cl. 4.4.3
	Iron (III) oxide content	BS EN 196-2 : 2005 Cl. 13.10
	Loss-on-ignition (L.O.I.)	BS EN 196-2 : 1995 Cl. 7 BS EN 196-2 : 2005 Cl. 7 BS EN 196-2 : 2013 Cl. 4.4.1
	Magnesium oxide content	BS EN 196-2 : 2005 Cl. 13.13 (Reference method)
	Sulfate content (as SO_3)	BS EN 196-2 : 1995 Cl. 8 BS EN 196-2 : 2005 Cl. 8 BS EN 196-2 : 2013 Cl. 4.4.2
	Total silica conent (SiO_2)	BS EN 196-2 : 2005 Cl. 13.9
	Pure silica content(SiO_2)	BS EN 196-2 : 2005 Cl. 13.6
	Soluble silica content (SiO_2)	BS EN 196-2 : 2005 Cl. 13.8

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
6/F, Techno Centre, 33 On Kui Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Cement (chemical analysis) (cont'd)	Potassium oxide content	BS EN 196-21 : 1992 Cl. 7 (Reference method) BS EN 196-2 : 2005 Cl. 17 (Reference method) BS EN 196-2 : 2013 Cl. 4.5.19 (Reference method)
	Sodium oxide content	BS EN 196-21 : 1992 Cl. 7 (Reference method) BS EN 196-2 : 2005 Cl. 17 (Reference method) BS EN 196-2 : 2013 Cl. 4.5.19 (Reference method)
	Alkali content	BS EN 196-21 : 1992 Cl. 7 (Reference method) BS EN 196-2 : 2005 Cl. 17 (Reference method) BS EN 196-2 : 2013 Cl. 4.5.19 (Reference method)

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
6/F, Techno Centre, 33 On Kui Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Concrete (chemical analysis)	pH value	In-house method CON-CML-PH
	Oven-dried bulk density	BS 1881 : Part 124 : 1988 Cl. 4.2
	Cement content and Aggregate/Cement ratio	BS 1881 : Part 124 : 1988 Cl. 5
	Calcium oxide content	BS 1881 : Part 124 : 2015+A1: 2021 Cl. 6 ***<Excluding Cl. 6.5 to Cl. 6.9>***
	Cement content and Aggregate content (by CaO determination)	BS 1881 : Part 124 : 2015+A1: 2021 Cl. 6 ***<Excluding Cl. 6.5 to Cl. 6.8>***
	Aggregate / cement ratio (based on CaO content)	BS 1881 : Part 124 : 2015+A1: 2021 Cl. 6.9
	Detection of PFA	CS 1 : 1990 Section 21.5 CS 1 : 2010 Section 21.5
	Cement and aggregate content	CS 1 : 1990 Section 21.6 CS 1 : 2010 Section 21.6
	Original water content	BS 1881 : Part 124 : 1988 Cl. 7 CS 1 : 1990 Section 21.7 CS 1 : 2010 Section 21.7
	Identification of type of aggregate	CS 1 : 1990 Section 21.9 CS 1 : 2010 Section 21.9
	Chloride ion content	BS 1881 : Part 124 : 1988 Cl. 10.2 BS 1881 : Part 124 : 2015+A1: 2021 Cl. 12.1 CS 1 : 1990 Section 21.10.2 CS 1 : 2010 Section 21.10.2
	Chloride content by weight of concrete sample	BS 1881 : Part 124 : 1988 Cl. 10.2 in conjunction with In-house method CON-BS1881-Cl (by calculation) BS 1881 : Part 124 : 2015+A1: 2021 Cl. 12.1 in conjunction with In-house method CON-BS1881(21)-CL(CAL) (by calculation) CS 1 : 1990 Section 21.10.2 in conjunction with In-house method CON-CS1(1990)-Cl (by calculation) CS 1 : 2010 Section 21.10.2 in conjunction with In-house method CON-CS1(2010)-Cl (by calculation)

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
6/F, Techno Centre, 33 On Kui Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Concrete (chemical analysis) (cont'd)	Sulphate content	BS 1881 : Part 124 : 1988 Cl. 10.3 CS 1 : 1990 Section 21.10.3 CS 1 : 2010 Section 21.10.3
	Sulphate content by weight of concrete sample	BS 1881 : Part 124: 1988 Cl. 10.3 in conjunction with In-house method CON-BS1881-SO3(CAL) (by calculation) CS 1: 1990 Section 21.10.3 in conjunction with In-house method CON-CS1(1990)-SO3 (by calculation) CS 1: 2010 Section 21.10.3 in conjunction with In-house method CON-CS1(2010)-SO3 (by calculation)
	Carbonate content	CS 1 : 1990 Section 21.10.4.2 (Manometric) CS 1 : 2010 Section 21.10.4.2 (Manometric)
	Determination of chloride content in hardened concrete	BS EN 14629 : 2007 Method A

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
6/F, Techno Centre, 33 On Kui Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Ground granualated blastfurnace slag (chemical analysis)	Moisture content	BS EN 15167-1 :2006 Annex A
	Loss-on-ignition (L.O.I.)	BS EN 196-2 : 2005 Cl.7 BS EN 15167-1 :2006 Cl. 5 & BS EN 196-2 : 2013 Cl. 4.4.1
	Sulfate content (as SO_3)	BS EN 196-2 : 2005 Cl.8 BS EN 15167-1 :2006 Cl. 5 & BS EN 196-2 : 2013 Cl.4.4.2
	Sulfide content	BS EN 196-2 : 2005 Cl.11 BS EN 15167-1 :2006 Cl. 5 & BS EN 196-2 : 2013 Cl.4.4.5
	Maganese content (as Mn_2O_3)	BS EN 15167-1 :2006 Cl. 5 & BS EN 196-2 : 2005 Cl.12
	Aluminium oxide content (Al_2O_3)	BS EN 15167-1 :2006 Cl. 5 & BS EN 196-2 : 2005 Cl.13.11
	Total silica content (SiO_2)	BS EN 15167-1 :2006 Cl. 5 & BS EN 196-2 : 2005 Cl.13.9
	Calcium oxide content (CaO)	BS EN 15167-1 :2006 Cl. 5 & BS EN 196-2 : 2005 Cl.13.12 (Reference method)
	Magnesium oxide content (MgO)	BS EN 15167-1 :2006 Cl. 5 & BS EN 196-2 : 2005 Cl.13.13 (Reference method)
	Chloride ion content (Cl^-)	BS EN 196-2 : 2005 Cl. 14 BS EN 15167-1 : 2006 Cl. 5 & BS EN 196-2 : 2013 Cl. 4.5.16
	Titanium dioxide content (TiO_2)	BS EN 15167-1 :2006 Cl. 5.5 d & BS EN 196-2 :1995 National Annex NB
	Residue insoluble in hydrochloric acid and sodium carbonate	BS EN 196-2: 2005 Cl. 9 BS EN 196-2: 2013 Cl. 4.4.3

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
6/F, Techno Centre, 33 On Kui Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Ground granualated blastfurnace slag (chemical analysis)	Potassium oxide content	BS EN 196-2 : 2005 Cl. 17 (Reference method) BS EN 196-2 : 2013 Cl. 4.5.19 (Reference method)
	Sodium oxide content	BS EN 196-2 : 2005 Cl. 17 (Reference method) BS EN 196-2 : 2013 Cl. 4.5.19 (Reference method)
	Total alkali content	BS EN 196-2 : 2005 Cl. 17 (Reference method) BS EN 15167-1 :2006 Cl. 5 & BS EN 196-2 : 2013 Cl. 4.5.19 (Reference method)
Ground water (chemical analysis)	pH value	GEOSPEC 3 : 2001 Test 9.5 GEOSPEC 3 : 2017 Test 9.5
	Sulphate content	GEOSPEC 3 : 2001 Test 9.3 GEOSPEC 3 : 2017 Test 9.3

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
6/F, Techno Centre, 33 On Kui Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Metallic materials (chemical analysis)	Elemental composition : -	
Solder alloy (Tin and tin alloy) in the forms of wire, ribbon and pellet	- Cadmium, Lead, Nickel	In-house method MET-SN-01 (ICP-OES)
Aluminium and aluminium alloy		
- Aluminium and aluminium alloy (6000 series)	- Bismuth, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Nickel, Silicon, Titanium, Vanadium, Zinc, Zirconium	In-house Method MET-AL-02 (Spark-OES)

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
6/F, Techno Centre, 33 On Kui Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Metallic materials (chemical analysis)	Elemental composition : -	
Copper and copper alloy		
- Copper and unalloyed copper in the form of wrought products and castings	- Copper	BS EN 16117-1: 2011 (Electrolytic deposition and ICP-OES) BS EN 16117-2: 2012 (Electrolytic deposition and ICP-OES)
- Copper and copper alloy	- Aluminium, Bismuth, Cadmium, Lead, Phosphorus, Zinc	In-house Method MET-CU-02 (ICP-OES)
- Copper and copper-based brazing material	- Silver	In-house Method MET-CU-03 (ICP-OES)
- Aluminium bronze	- Aluminium, Antimony, Arsenic, Bismuth, Chromium, Cobalt, Iron, Lead, Magnesium, Manganese, Nickel, Phosphorus, Selenium, Silicon, Tin, Zinc	In-house Method ST-MULTI-4 (Spark-OES)
	- Copper	In-house Method ST-MULTI-4 (Spark-OES)
- Brass	- Aluminium, Antimony, Arsenic, Bismuth, Chromium, Cobalt, Iron, Lead, Manganese, Nickel, Phosphorus, Selenium, Silicon, Sulfur, Tin, Zinc	In-house Method ST-MULTI-4 (Spark-OES)
	- Copper	In-house Method ST-MULTI-4 (Spark-OES)
- Gunmetal	- Aluminium, Antimony, Arsenic, Bismuth, Cobalt, Iron, Lead, Manganese, Nickel, Phosphorus, Selenium, Silicon, Sulfur, Tin, Zinc	In-house Method ST-MULTI-4 (Spark-OES)
	- Copper	In-house Method ST-MULTI-4 (Spark-OES)

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
6/F, Techno Centre, 33 On Kui Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Metallic materials (chemical analysis)	Elemental composition : -	
Iron (chemical analysis)	Total carbon content	BS EN ISO 15350 : 2010 ISO 15350 : 2000
	Total sulfur content	BS EN ISO 15350 : 2010 ISO 15350 : 2000
	Nitrogen content	BS EN ISO 15351 : 2010 ISO 15351 : 1999
Steel (chemical analysis)	Elemental composition : -	
	Total carbon content	BS EN ISO 15350 : 2010 ISO 15350 : 2000
	Total sulfur content	BS EN ISO 15350 : 2010 ISO 15350 : 2000
	Nitrogen content	BS EN ISO 15351 : 2010 ISO 15351 : 1999
	Nitrogen content	ASTM E1019-08
	Niobium content	In-house Method ST-NB-1 (ICP-OES)
	- Chromium, Copper, Manganese, Molybdenum, Nickel, Phosphorus, Silicon, Titanium, Vanadium	In-house Method ST-MULTI-1 (ICP-OES)
- Low alloy steel	- Carbon, Chromium, Copper, Manganese, Molybdenum, Nitrogen, Nickel, Phosphorus, Sulphur, Vanadium	In-house Method ST-MULTI-2 (Spark-OES)
- Carbon steel	- Carbon, Chromium, Copper, Manganese, Molybdenum, Nitrogen, Nickel, Phosphorus, Sulphur, Vanadium	In-house Method ST-MULTI-2 (Spark-OES)
- Carbon and low alloy steel	Carbon Equivalent Value	In-house Method ST-CEV (By calculation)

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
6/F, Techno Centre, 33 On Kui Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Polymer latex solution (chemical analysis)	Polymer solids content	HKHA Standard 002 : 1990 Cl. 2 (modified)
Polymer-modified mortar and prebagged material (chemical analysis)	Sample treatment	HKHA Standard 002 : 1990 Cl. 6 (modified)
	Calcium oxide content	HKHA Standard 002 : 1990 Cl. 7.1 (modified)
	Carbon dioxide content	HKHA Standard 002 : 1990 Cl. 7.2 (modified)
	Cement content and aggregate/cement ratio	HKHA Standard 002 : 1990 Cl. 7 (modified)
	Polymer solids content	HKHA Standard 002 : 1990 Cl. 8 (modified)

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
6/F, Techno Centre, 33 On Kui Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Pulverized fuel ash (chemical analysis)	Sulphuric anhydride content (as SO_3)	BS EN 450-1: 2005 (A1 : 2007) Cl. 5.2.4 & BS EN 196-2 : 2005 Cl. 8
	Sulphate content (as SO_3)	BS EN 450-1: 2012 Cl. 5.2.4 & BS EN 196-2 : 2005 Cl. 8
	Sulfate content (as SO_3)	BS EN 196- 2 : 1995 Cl. 8 BS EN 196-2 : 2013 Cl. 4.4.2
	Loss-on-ignition	BS EN 196-2 : 1995 Cl. 7 (using 1h ignition time) BS EN 196-2: 2013 Cl. 4.4.1 (using 1h ignition time) BS EN 450-1: 2005 (A1 : 2007) Cl. 5.2.2 & BS EN 196-2 : 2005 Cl. 7 (using 1h ignition time) BS EN 450-1: 2012 Cl. 5.2.2 & BS EN 196-2: 2005 Cl. 7 (using 1h ignition time)
	Magnesia	BS 3892 : Part 1 : 1982 (AMD 4629) App. C
	Magnesium oxide content	BS EN 450-1: 2005 (A1 : 2007) Cl. 5.2.10 & BS EN 196-2 : 2005 Cl. 13.13 (Reference method)
	Iron (III) oxide content	BS EN 450-1: 2005 (A1 : 2007) Cl. 5.2.8 & BS EN 196-2 : 2005 Cl. 13.10
	Aluminium oxide content	BS EN 450-1: 2005 (A1 : 2007) Cl. 5.2.8 & BS EN 196-2 : 2005 Cl. 13.11
	Total silica content (SiO_2)	BS EN 450-1: 2005 (A1 : 2007) Cl. 5.2.8 & BS EN 196-2 : 2005 Cl. 13.9
	Calcium oxide content (CaO)	BS EN 196- 2 : 1995 Cl. 13.12 BS EN 450-1: 2005 (A1 : 2007) Cl. 5.2.6 & BS EN 196-2 : 2005 Cl. 13.12 (Reference method)
	Chloride content	BS EN 196- 21 : 1992 Cl. 4 BS EN 196-2: 2013 Cl. 4.5.16 BS EN 450-1: 2005 (A1 : 2007) Cl. 5.2.3 & BS EN 196-2 : 2005 Cl. 14 BS EN 450-1: 2012 Cl. 5.2.3 & BS EN 196-2: 2005 Cl. 14

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
6/F, Techno Centre, 33 On Kui Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Pulverized fuel ash (chemical analysis)	Potassium oxide content	BS EN 196-21 : 1992 Cl. 7 (Reference method) BS EN 196-2: 2005 Cl. 17 (Reference method) BS EN 196-2: 2013 Cl. 4.5.19 (Reference method)
	Sodium oxide content	BS EN 196-21: 1992 Cl. 7 (Reference method) BS EN 196-2 : 2005 Cl. 17 (Reference method) BS EN 196-2: 2013 Cl. 4.5.19 (Reference method)
	Total alkali content	BS EN 196-21 : 1992 Cl. 7 (Reference method) BS EN 196-2: 2013 Cl. 4.5.19 (Reference method) BS EN 450-1: 2005 (A1 : 2007) Cl. 5.2.9 & BS EN 196-2 : 2005 Cl. 17 (Reference method) BS EN 450-1: 2012 Cl. 5.2.9 & BS EN 196-2 : 2005 Cl. 17 (Reference method)
Portland pulverized fuel ash cement (chemical analysis)	Sulphuric anhydride content (as SO_3)	BS EN 196-2 : 1995 Cl. 8
	Loss-on-ignition	BS 4550 : Part 2: 1970 Cl. 13.2
	Magnesia	BS 3892 : Part 1 : 1982 (Amd 4629) App. C
	Proportion of pulverized fuel ash	BS 6588 : 1985 App. A.3

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
6/F, Techno Centre, 33 On Kui Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Silica fume (chemical analysis)	Dry mass content at 105ºC	BS EN 13263-1 : 2005 (A1 : 2009) Cl. 5.1
	Loss-on-ignition (L.O.I.)	BS EN 13263-1 : 2005 (A1 : 2009) Cl. 5.2 & BS EN 196-2 : 2005 Cl.7
	Silicon dioxide content (SiO_2)	BS EN 13263-1 : 2005 (A1 : 2009) Cl. 5.2 & BS EN 196-2 : 2005 Cl. 13.3 & Cl. 13.6
	Sulfate content (as SO_3)	BS EN 13263-1 : 2005 (A1 : 2009) Cl. 5.2 & BS EN 196-2 : 2005 Cl. 8
	Chloride ion content (Cl^-)	BS EN 13263-1 : 2005 (A1 : 2009) Cl. 5.2 & BS EN 196-2 : 2005 Cl.14
	Free calcium oxide content	BS EN 13263-1 : 2005 (A1 : 2009) Cl. 5.2 & BS EN 451-1 : 2003
	Total alkali content	BS EN 13263-1 : 2005 (A1 : 2009) Cl. 5.2 & BS EN 196-2 : 2005 Cl.17 (Reference method)

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
6/F, Techno Centre, 33 On Kui Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Soil (chemical analysis)	Total sulphate content	GEOSPEC 3 : 2001 Test 9.3 GEOSPEC 3 : 2017 Test 9.3
	Water-soluble sulphate content	GEOSPEC 3 : 2001 Test 9.3 GEOSPEC 3 : 2017 Test 9.3
	Organic matter content	GEOSPEC 3 : 2001 Test 9.1 GEOSPEC 3 : 2017 Test 9.1
	Loss-on-ignition	GEOSPEC 3 : 2001 Test 9.2 GEOSPEC 3 : 2017 Test 9.2
	Water-soluble chloride content	GEOSPEC 3 : 2001 Test 9.4 GEOSPEC 3 : 2017 Test 9.4
	pH value	GEOSPEC 3 : 2001 Test 9.5 GEOSPEC 3 : 2017 Test 9.5
	Carbonate	BS EN ISO 10693: 2014

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
6/F, Techno Centre, 33 On Kui Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Water (chemical analysis)	Total solids dried at 103-105℃	In-house Method WTR-CML-TM Section 8 (Gravimetric)
	Total dissolved solid dried at 180℃	In-house Method WTR-CML-TM Section 9 (Gravimetric)
	Chloride content	In-house Method WTR-CML-TM Section 4 (Titrimetric) BS EN 1008 : 2002 Cl. 6.1.3 & BS EN 196-21: 1992 Cl. 4
	Sulphate content	In-house Method WTR-CML-TM Section 5 (Turbidimetric) BS EN 1008 : 2002 Cl. 6.1.3 & BS EN 196-2: 1995 Cl. 8
	Alkalinity	In-house Method WTR-CML-TM Section 6 (Titrimetric)
	pH value	In-house Method WTR-CML-TM Section 7 (Electrode)
	Acid-soluble alkali content	In-house Method WTR-CML.Na-K
	Alkali content	BS EN 1008 : 2002 Cl. 6.1.3 & BS EN 196-21: 1992 Cl. 7

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
6/F, Techno Centre, 33 On Kui Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

Environmental Testing 環境測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Drinking water	Physical Examination : -	
	- Colour	APHA 19e 2120B APHA 21e 2120B
Saline water	Physical Examination : -	
	- Total suspended solids dried at 103 - 105℃	APHA 23e 2540 D
	Non-metallic Constituents:-	
	- Nitrogen (Ammonia)	In-house method EN-NH3-ISE (By ion-selective electrode) In-house method EN-SEA-NH3-FIA (By FIA)
	- Nitrogen (Nitrate)	In-house method EN-SEA-NO2NO3-FIA (By calculation)
	- Nitrogen (Nitrite)	In-house method EN-SEA-NO2NO3-FIA (By FIA)
	- Nitrogen (Nitrate + Nitrite)	In-house method EN-SEA-NO2NO3-FIA (By FIA)
	- Phosphorus (Reactive)	In-house method EN-SEA-OP-FIA (By FIA)

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
6/F, Techno Centre, 33 On Kui Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Saline water	Organic pollutants:- - Polychlorinated Biphenyls (PCBs) : - 2,4'-Dichlorobiphenyl (PCB #8) 2,2',5-Trichlorobiphenyl (PCB #18) 2,4,4'-Trichlorobiphenyl (PCB #28) 2,2', 3,5'-Tetrachlorobiphenyl (PCB #44) 2,2', 5,5'-Tetrachlorobiphenyl (PCB #52) 2,3', 4,4'-Tetrachlorobiphenyl (PCB #66) 3,3', 4,4'-Tetrachlorobiphenyl (PCB #77) 2,2', 4,5,5'-Pentachlorobiphenyl (PCB #101) 2',3,3',4,4'-Pentachlorobiphenyl (PCB#105) 2,3',4,4',5-Pentachlorobiphenyl (PCB #118) 3,3',4,4',5-Pentachlorobiphenyl (PCB #126) 2,2',3,3',4,4'-Hexachlorobiphenyl (PCB #128) 2,2',3,4,4',5'-Hexachlorobiphenyl (PCB #138) 2,2',3,4',5',6 -Hexachlorobiphenyl (PCB #149) 2,2',4,4',5,5'-Hexachlorobiphenyl (PCB #153) 2,3,3',4,4',5-Hexachlorobiphenyl (PCB #156) 3,3',4,4',5,5'-Hexachlorobiphenyl (PCB #169) 2,2',3,3',4,4',5-Heptachlorobiphenyl (PCB #170) 2,2',3,4,4',5,5'-Heptachlorobiphenyl (PCB #180) 2,2',3,4',5,5',6-Heptachlorobiphenyl (PCB #187) 2,2',3,3',4,4',5,6 -Octachlorobiphenyl (PCB #195) 2,2',3,3',4,4',5,5',6 -Nonachlorobiphenyl (PCB #206)	In-house method EN-WAT-PCB (GC/MSD)

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
6/F, Techno Centre, 33 On Kui Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

Environmental Testing 環境測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Saline water (cont'd)	Organic pollutants:- (cont'd)	
	- Organochlorine pesticides: -	In-house method EN-WAT-PEST-OC (GC/MSD)
	Aldrin, Dieldrin, Endrin, Endrin aldehyde, Endosulfan I, Endosulfan II, Endosulfan sulphate, Endrin ketone, cis-Chlordane, trans-Chlordane, Heptachlor, Heptachlor epoxide, Hexachlorobenzene, Methoxychlor, 4,4'-DDT, 4, 4'-DDE, 4,4'-DDD, Hexachlorocyclohexane isomers (alpha, beta, delta, and gamma-BHC (Lindane))	
	- Tributyltin	In-house method EN-WAT-TBT (GC/MSD)
	- Tributyltin in interstitial water	In-house method EN-WAT-TBT (GC/MSD)
	- Polycyclic Aromatic Hydrocarbons (PAHs)	In-house method EN-WAT-SVOC (GC/MSD)
	Naphthalene, Acenaphthylene, Acenaphthene, Anthracene, Fluorene, Phenanthrene, Fluoranthene, Pyrene, Chrysene, Benz(a)anthracene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenz (a,h)anthracene, Benzo (g,h,i)perylene, Benzo(b)fluoranthene, Benzo(k)fluoranthene	
	- Hexachlorobenzene - Phenol - Bis(2-ethylhexyl)phthalate	In-house method EN-WAT-SVOC (GC/MSD)

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
6/F, Techno Centre, 33 On Kui Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Saline water (cont'd)	Trace metals:- - Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Mercury, Molybdenum, Nickel, Selenium, Silver, Thallium, Tin, Vanadium, Zinc	In-house method EN-SEA-METAL-MS (ICP/MS)

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
6/F, Techno Centre, 33 On Kui Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Water and wastewater	Physical examination :-	
	- Alkalinity – Total	APHA 21e 2320 B
	- Alkalinity - Phenolphthalein	APHA 21e 2320 B
	- Hardness (as $CaCO_3$)	APHA 21e 2340 C
	- Total solids dried at 103 - 105℃	APHA 19e 2540 B APAH 21e 2540 B
	- Total suspended solids dried at 103 - 105℃	APHA 19e 2540 D APHA 21e 2540 D APHA 23e 2540 D
	- Total dissolved solids dried at 180ºC	APHA 21e 2540 C
	- Fixed & volatile solids ignited at 550ºC	APHA 21e 2540 E
	- Conductivity	APHA 19e, 2510B APHA 21e, 2510B
	- pH value	APHA 19e, 4500-H^+B APHA 21e, 4500-H^+B
	- Turbidity	APHA 19e, 2130B APHA 21e, 2130B
	Non-metallic Constituents:-	
	- Chloride	APHA 21e 4500-Cl^- B
	- Chlorine (Total residual)	APHA 21e 4500-Cl G
	- Chlorine (Free residual)	APHA 21e 4500-Cl G
	- Dissolved oxygen	APHA 21e, 4500-O C & G
	- Fluoride	APHA 21e, 4500-F C

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
6/F, Techno Centre, 33 On Kui Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

Environmental Testing 環境測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Water and wastewater (cont'd)	Non-metallic Constituents:- (cont'd)	
	- Dissolved sulphide	In-house method EN-S^{2-}-FIA (By FIA)
	- Sulphide (Total & Soluble)	APHA 21e 4500-S^{2-} B&F
	- Sulfide (Total)	APHA 23e 4500-S^{2-} D
	- Sulphate	APHA 21e 4500-$SO4^{2-}$ E
	- Phosphorus (Total)	APHA 21e, 4500-P B & E
	- Phosphorus (Reactive)	APHA 21e, 4500-P E In-house method EN-OP-FIA (By FIA)
	- Nitrogen (Total)	In-house method EN-TN-FIA (By FIA)
	- Nitrogen (Total Kjeldahl)	APHA 21e, 4500-Norg B & APHA 21e, 4500-NH_3 C In-house method EN-TKN-FIA (By FIA)
	- Nitrogen (Ammonia)	APHA 21e, 4500-NH_3 B & D In-house method EN-NH3-FIA (By FIA)
	- Organic nitrogen	In-house method EN-WAT-ON (By calculation)
	- Nitrogen (Nitrate)	APHA 21e, 4500-NO_3^- E In-house method EN-NO2NO3-FIA (By Calculation)
	- Nitrogen (Nitrite)	APHA 21e, 4500-NO_2^- B In-house method EN-NO2NO3-FIA (By FIA)
	- Nitrogen (Nitrate + Nitrite)	In-house method EN-NO2NO3-FIA (By FIA)
	- Cyanide (Total)	In-house method EN-TCN-FIA (By FIA)
	- Cyanide (Free)	In-house method EN-CN-FREE-ISE (By ion-selective electrode)

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
6/F, Techno Centre, 33 On Kui Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Water and wastewater (cont'd)	Organic pollutants:-	
	- Chemical oxygen demand (COD)	APHA 19e 5220 B (Open reflux) ASTM D1252B : 2000 APHA 21e 5220 B (Open reflux)
	- Oil and grease	APHA 19e 5520 B APHA 21e 5520 B
	- Biochemical Oxygen Demand	APHA 19e 5210 B APHA 21e 5210 B
	- Total Organic Carbon	In-house method EN-WAT-TOC (NDIR)
	- Anionic surfactants (as MBAS)	APHA 21e 5540 B & C
	- Non-ionic surfactants (as CTAS)	APHA 21e 5540 B & D
	- Total surfactants (Anionic and Non-ionic)	In-house method EN-WAT-TSF (By calculation)
	- Tributyltin	In-house method EN-WAT-TBT (GC/MSD)
	- Polycyclic Aromatic Hydrocarbons (PAHs) Naphthalene, Acenaphthylene, Acenaphthene, Anthracene, Fluorene, Phenanthrene, Fluoranthene, Pyrene, Chrysene, Benz(a)anthracene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenz (a,h)anthracene, Benzo (g,h,i)perylene, Benzo(b)fluoranthene, Benzo(k)fluoranthene	In-house method EN-WAT-SVOC (GC/MSD)
	- Hexachlorobenzene - Phenol - Bis(2-ethylhexyl)phthalate	In-house method EN-WAT-SVOC (GC/MSD)

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
6/F, Techno Centre, 33 On Kui Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

Environmental Testing 環境測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Water and wastewater (cont'd)	Organic pollutants:- (cont'd) - Polychlorinated Biphenyls (PCBs) : - 2,4'-Dichlorobiphenyl (PCB #8) 2,2',5-Trichlorobiphenyl (PCB #18) 2,4,4'-Trichlorobiphenyl (PCB #28) 2,2', 3,5'-Tetrachlorobiphenyl (PCB #44) 2,2', 5,5'-Tetrachlorobiphenyl (PCB #52) 2,3', 4,4'-Tetrachlorobiphenyl (PCB #66) 3,3', 4,4'-Tetrachlorobiphenyl (PCB #77) 2,2', 4,5,5'-Pentachlorobiphenyl (PCB #101) 2',3,3',4,4'-Pentachlorobiphenyl (PCB #105) 2,3',4,4',5-Pentachlorobiphenyl (PCB #118) 3,3',4,4',5-Pentachlorobiphenyl (PCB #126) 2,2',3,3',4,4'-Hexachlorobiphenyl (PCB #128) 2,2',3,4,4',5'-Hexachlorobiphenyl (PCB #138) 2,2',3,4',5',6 -Hexachlorobiphenyl (PCB #149) 2,2',4,4',5,5'-Hexachlorobiphenyl (PCB #153) 2,3,3',4,4',5-Hexachlorobiphenyl (PCB #156) 3,3',4,4',5,5'-Hexachlorobiphenyl (PCB #169) 2,2',3,3',4,4',5-Heptachlorobiphenyl (PCB #170) 2,2',3,4,4',5,5'-Heptachlorobiphenyl (PCB #180) 2,2', 3,4',5,5',6-Heptachlorobiphenyl (PCB #187) 2,2',3,3',4,4',5,6 -Octachlorobiphenyl (PCB #195) 2,2',3,3',4,4',5,5',6 -Nonachlorobiphenyl (PCB #206)	In-house method EN-WAT-PCB (GC/MSD)

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
6/F, Techno Centre, 33 On Kui Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Water and wastewater (cont'd)	Organic pollutants:- (cont'd)	
	- Organochlorine pesticides: -	In-house method EN-WAT-PEST-OC (GC/MSD)
	Aldrin, Dieldrin, Endrin, Endrin aldehyde, Endosulfan I, Endosulfan II, Endosulfan sulphate, Endrin ketone, cis-Chlordane, trans-Chlordane, Heptachlor, Heptachlor epoxide, Hexachlorobenzene, Methoxychlor, 4,4'-DDT, 4, 4'-DDE, 4,4'-DDD, Hexachlorocyclohexane isomers (alpha, beta, delta, and gamma-BHC (Lindane))	
	- Haloacetic acids: -	In-house method EN-WAT-HAA (Methylation followed by GC/ECD & GC/MSD)
	Monochloroacetic acid, Dichloroacetic acid, Trichloroacetic acid	
	- Total Petroleum Hydrocarbons (TPHs) : -	In-house method EN-WAT-TPH (Purge and Trap GC/MSD & GC/FID)
	C6 – C8 C9 – C16 C17– C35	
	- Volatile Organic Compounds (VOCs): -	In-house method EN-VOC-GCMS (Purge and Trap GC/MSD)
	Acetone Benzene Bromodichloromethane Bromoform 2-butanone (MEK) Chlorodibromomethane Chloroform Ethylbenzene Methyl tert-butyl ether (MTBE) Methylene chloride Styrene Tetrachloroethene Trichloroethene Toluene	
	Xylenes – Total (sum of ortho-, meta- & para-xylene)	

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
6/F, Techno Centre, 33 On Kui Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Water and wastewater (cont'd)	Metals: - (Total)	
	- Iron	APHA 19e, 3030A, 3030E and 3111B APHA 21e, 3030A, 3030E and 3111B
	Trace metals: - (Total and Soluble)	
	- Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Iron, Lead, Manganese, Mercury, Molybdenum, Nickel, Selenium, Silver, Thallium, Tin, Vanadium, Zinc Calcium, Magnesium, Potassium, Sodium	In-house method EN-WAT-METAL-OES (ICP/OES)
	- Aluminium, Antimony, Arsenic, Barium, Boron, Beryllium, Cadmium, Cobalt, Copper, Manganese, Mercury, Molybdenum, Selenium, Silver, Strontium, Thallium, Tin, Chromium, Lead, Nickel, Vanadium, Zinc, Iron	In-house method EN-WAT-METAL-MS (ICP/MS)
	- Hexavalent Chromium Cr (VI)	In-house method EN-WAT-Cr(VI) (Colorimetric)
	- Trivalent Chromium Cr (III)	In-house method EN-Cr(III)-SUB (By calculation)
	- Mercury	In-house method EN-WAT-HG-FIMS (By FIMS)

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
6/F, Techno Centre, 33 On Kui Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

Environmental Testing 環境測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Solids and semi-solids	Physical Examination : -	
	- Total solids dried at 103 - 105℃	APHA 21e 2540 G
	- Fixed & volatile solids ignited at 550ºC	APHA 21e 2540 G
Soil	Physical Examination : -	
	- Specific electrical conductivity	BS 7755-3.4: 1995 ISO 11265: 1994
	Non-metallic Constituents:-	
	- Cyanide-Total	In-house method EN-CN-TOTAL (Colorimetric)
	- Cyanide-Free	In-house method EN-CN-FREE-COR (Colorimetric)
	- Cyanide-Free	In-house method EN-CN-FREE-ISE (By ion-selective electrode)
	- Phosphorus content	BS 7755-3.6: 1995 ***<Excluding the following>*** Sections 4.3, 5.2.1, 5.2.2, 6.3.2 & 6.4.2 ISO 11263: 1994 ***<Excluding the following>*** Sections 4.3, 5.2.1, 5.2.2, 6.3.2 & 6.4.2
	- Total nitrogen content	BS 7755-3.7: 1995 ISO 11261: 1995

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
6/F, Techno Centre, 33 On Kui Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Soil (cont'd)	Trace metals: - (Acid Leachable)	
	- Antimony, Arsenic, Barium, Cadmium, Chromium, Cobalt, Copper, Lead, Molybdenum, Manganese, Mercury, Nickel, Tin, Vanadium, Zinc	In-house method EN-SOIL-METAL-MS (ICP/MS)
	- Hexavalent Chromium Cr (VI)	In-house method EN-SOIL-Cr(VI) (Colorimetric)
	- Trivalent Chromium Cr (III)	In-house method EN-Cr(III)-SUB (By calculation)
	- Cation exchange capacity (CEC)	BS EN ISO 23470: 2018 (By spectrometric determination of cobalt by ICP-AES) ***<Excluding the following>*** Cl. 7.3.2, Cl. 7.3.3, Cl. 7.4.4, Cl. 7.4.6
	- Content of exchangeable calcium - Content of exchangeable magnesium - Content of exchangeable sodium - Content of exchangeable potassium	BS EN ISO 23470: 2018 (By ICP-AES) ***<Excluding the following>*** Cl. 7.3, Cl. 7.4.3, Cl. 7.4.5

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
6/F, Techno Centre, 33 On Kui Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Soil (cont'd)	Organic pollutants:-	
	- Total Petroleum Hydrocarbons (TPHs) : -	In-house method EN-SOIL-TPH (Purge and Trap GC/MSD & GC/FID)
	C6 – C8 C9 – C16 C17 – C35	
	Bis (2-ehtylhexyl)phthalate, Hexachlorobenzene	In-house method EN-SOIL-PAH (GC/MSD)
	Phenol	In-house method EN-SOIL-PHENOL (GC/MSD)
	- Polycyclic Aromatic Hydrocarbons (PAHs)	In-house method EN-SOIL-PAH (GC/MSD)
	Naphthalene, Acenaphthylene, Acenaphthene, Anthracene, Chrysene, Fluorene, Pyrene, Fluoranthene, Phenanthrene, Benzo(a)pyrene, Benz(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo (g,h,i)perylene, Indeno(1,2,3-cd)pyrene, Dibenz (a,h)anthracene	
	- Volatile Organic Compounds (VOCs) :	In-house method EN-VOC-GCMS (Purge and Trap GC/MSD)
	Acetone, Benzene, Bromodichloromethane, 2-butanone (MEK), Chloroform, Toluene, Methylene chloride, Ethylbenzene, Methyl tert-butyl ether (MTBE) Styrene, Tetrachloroethene, Trichloroethene, Xylenes – Total (sum of ortho-, meta- & para-xylene)	

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
6/F, Techno Centre, 33 On Kui Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Sediment	Trace metals: -	
	- Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Mercury, Molybdenum, Nickel, Selenium, Silver, Strontium, Thallium, Tin,Vanadium, Zinc	In-house method EN-SED-METAL-MS (ICP-MS)
	Organic pollutants:-	
	- Polycyclic Aromatic Hydrocarbons (PAHs) Naphthalene, Acenaphthylene, Acenaphthene, Anthracene, Chrysene, Fluorene, Pyrene, Fluoranthene, Phenanthrene, Benzo(a)pyrene, Benz(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo (g,h,i)perylene, Indeno(1,2,3-cd)pyrene, Dibenz (a,h)anthracene	In-house method EN-SED-PAH (GC-MSD)

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
6/F, Techno Centre, 33 On Kui Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

Environmental Testing 環境測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Sediment and soil	Organic pollutants:-	
	- Total Organic Carbon	In-house method EN-SOLID-TOC (NDIR)
	- Polychlorinated Biphenyls : -	In-house method EN-SOIL-PCB (GC/MSD)
	2,4'-Dichlorobiphenyl (PCB #8) 2,2',5-Trichlorobiphenyl (PCB #18) 2,4,4'-Trichlorobiphenyl (PCB #28) 2,2', 3,5'-Tetrachlorobiphenyl (PCB #44) 2,2', 5,5'-Tetrachlorobiphenyl (PCB #52) 2,3', 4,4'-Tetrachlorobiphenyl (PCB #66) 3,3', 4,4'-Tetrachlorobiphenyl (PCB #77) 2,2', 4,5,5'-Pentachlorobiphenyl (PCB #101) 2',3,3', 4,4'-Pentachlorobiphenyl (PCB #105) 2,3', 4,4',5-Pentachlorobiphenyl (PCB #118) 3,3', 4,4',5-Pentachlorobiphenyl (PCB #126) 2,2', 3,3',4,4'-Hexachlorobiphenyl (PCB #128) 2,2', 3,4,4',5'-Hexachlorobiphenyl (PCB #138) 2,2', 3,4',5',6-Hexachlorobiphenyl (PCB #149) 2,2', 4,4',5,5'-Hexachlorobiphenyl (PCB #153) 2,3,3', 4,4',5-Hexachlorobiphenyl (PCB #156) 3,3', 4,4',5,5'-Hexachlorobiphenyl (PCB #169) 2,2', 3,3',4,4',5-Heptachlorobiphenyl (PCB #170) 2,2', 3,4,4',5,5'-Heptachlorobiphenyl (PCB #180) 2,2', 3,4',5,5',6-Heptachlorobiphenyl (PCB #187) 2,2',3,3',4,4',5,6-Octachlorobiphenyl (PCB #195) 2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (PCB #206)	
Sediment and soil, ash and the mixture of the above	TCLP Metals: - (Total Characteristics Leaching Procedures)	
	- Extraction procedure	USEPA SW846 Method 1311 (EN-TCLP-EXT)
	- Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Copper, Lead, Mercury, Nickel, Selenium, Silver, Thallium, Tin, Vanadium, Zinc, Manganese, Cobalt, Molydenum	In-house method EN-SOIL-TCLP-OES (ICP/OES) In-house method EN-SOIL-TCLP-MS (ICP/MS)

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
6/F, Techno Centre, 33 On Kui Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

Environmental Testing 環境測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Sediment	Toxicity Tests: -	
	10-D Amphipod Survival Test - *Leptocheirus plumulosus*	USEPA 600/R-94/025 June 1994 Test Method 100.4
	20-D Polychaete Growth and Survival Test - *Neanthes arenaceodentata*	Recommended Guidelines for Conducting Laboratory Bioassays on Puget Sound Sediments, PSEP, July 1995
	48-60 Hour Bivalve Larvae Survival and Normality Test - *Mytilus galloprovincialis*	Recommended Guidelines for Conducting Laboratory Bioassays on Puget Sound Sediments, PSEP, July 1995 (with modification)
	48-60 Hour Bivalve Larvae Survival and Normality Test - *Crassostrea gigas*	Recommended Guidelines for Conducting Laboratory Bioassays on Puget Sound Sediments, PSEP, July 1995

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
6/F, Techno Centre, 33 On Kui Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

Environmental Testing 環境測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Drinking water, Water and Wastewater	Microbiological examinations:-	
	- Total coliform count	DoE, The Bacteriological Examination of Drinking Water Supplies, 1982 (Membrane Filtration Method: Section 7.8, 7.9.4.1; Bacterial Confirmation : Section 7.9.4.3)
	- Faecal coliform count	DoE, The Bacteriological Examination of Drinking Water Supplies, 1982 (Membrane Filtration Method: Section 7.8, 7.9.4.2; Bacterial Confirmation : Section 7.7.6.3)
	- *E. coli* count	DoE, The Bacteriological Examination of Drinking Water Supplies, 1982 (Membrane Filtration Method : Section 7.8, 7.9.4.2; Bacterial Confirmation : Section 7.9.4.4)
Water and Wastewater	- *E. coli* count	DoE, The Bacteriological Examination of Drinking Water Supplies, 1982 (Membrane Filtration Method : Section 7.8, 7.9.4.2; Bacterial Confirmation : in situ urease test)
	- Heterotrophic Plate count	APHA (1995) 19e, 9215B
Water and Wastewater including water source from Bathing bleach, marine, river, contaminated water source and Storm drain	- Enumeration of Faecal Coliform	Environmental Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3 Environmental Protection Department, HK (EM019)
	- Enumeration of *E. coli*	Environmental Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3 Environmental Protection Department, HK (EM019)

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
6/F, Techno Centre, 33 On Kui Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

Environmental Testing 環境測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Microbiological examinations:-	
Water, Wastewater and Cooling Tower Water	- *Legionella* spp. including *Legionella pneumophila*	AS/NZS 3896:1998
Drinking water	- *Legionella* spp. including *Legionella pneumophila*	ISO 11731-2:2004
Treated bathing water	- *Legionella* spp. including *Legionella pneumophila*	ISO 11731-2:2004

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
6/F, Techno Centre, 33 On Kui Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

Environmental Testing 環境測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Indoor Air Quality Testing	Extractable components collected in passive samplers:-	
	- Formaldehyde	In-house method EN-IAQ-HCHO (HPLC/DAD)
	- Nitrogen dioxide	In-house method EN-IAQ-NO2 (UV Spectrophotometer)
	Microbiological examinations:-	
Collectate sampled by Biotest Air Sampler RCS HF	Airborne bacteria count (number of colonies on agar strip) (30 ºC for 2 days)	In-house method MB-AIR-BACTERIA
Collectate sampled by Single-stage N6 Andersen impactor	Airborne bacteria count (number of colonies & corrected number of colonies on agar plate) (30 ºC for 2 days)	In-house method MB-AIR-BACTERIA
Collectate sampled by Microbio Air Sampler MB2	Airborne bacteria count (number of colonies on agar plate) (30 ºC for 2 days)	In-house method MB-AIR-BACTERIA
Collectate sample on agar plate	Airborne bacteria count (number of colonies on agar plate) (30 ºC for 2 days)	In-house method MB-AIR-BACTERIA

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
6/F, Techno Centre, 33 On Kui Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Chemical composition : -	
Meat	- Ash	ISO 936:1998
	- Moisture content	ISO 1442:1997
	- Protein (Crude)	AOAC Official Methods, 981.10 (2005) (Kjeldahl Method)
General foodstuff	- Sodium	In-house method FD-FOOD-SOD (ICP-AES)
	- Calcium and iron	In-house method FD-FOOD-BORIC-CA-FE (ICP-OES)
	- Total ash at 550ºC	In-house method FD-FOOD-ASH (Gravimetric method)
	- Moisture content	GB5009.3—2010 (Direct drying method and Distillation method)
	- Protein	In-house method FD-FOOD-PRO (Kjeldahl Method)
	- Total Dietary fibre	AOAC Official Method 985.29 (2005) (Enzymatic-gravimetric method)
	- Sugars: - glucose, galactose, fructose, sucrose, maltose, lactose	In-house method FD-FOOD-SUG (HPLC-RI)
	- Cholesterol	AOAC Official Method 994.10 (2005) (GC-FID)
	- Total fat	In-house method FD-FOOD-FAT (Acid hydrolysis method)

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
6/F, Techno Centre, 33 On Kui Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
General foodstuff	Chemical composition : - (cont'd)	
	- Saturated fatty acids ($C_{4:0}$, $C_{6:0}$, $C_{8:0}$, $C_{10:0,}$ $C_{12:0,}$, $C_{14:0}$, $C_{15:0,}$ $C_{16:0}$, $C_{17:0}$, $C_{18:0}$, $C_{20:0}$, $C_{22:0}$, $C_{24:0}$)	AOAC Official Method 996.06 (2010) (Hydrolytic extraction gas chromatography)
	- Trans fatty acids ($C_{14:1T}$(9-*trans*), $C_{16:1T}$(9-*trans*), $C_{18:1T}$(total), $C_{18:2TT}$(9,12-*trans*), $C_{18:2T}$(9-*cis*,12-*trans*), $C_{18:2T}$(9- *trans*,12-*cis*), $C_{20:1T}$(11-*trans*), $C_{22:1T}$(13-*trans*))	AOAC Official Method 996.06 (2010) (Hydrolytic extraction gas chromatography)
	- Unsaturated fatty acids ($C_{14:1}$(9-*cis*), $C_{15:1}$(10-*cis*), $C_{16:1}$(9-*cis*), $C_{17:1}$(10-*cis*), $C_{18:1}$(9-*cis*), $C_{18:2}$(9,12-*cis*), $C_{18:3}$(9-*cis*,12-*cis*, 15-*cis*), $C_{20:1}$(11-*cis*), $C_{20:2}$(11-*cis*,14-*cis*), $C_{20:3}$(11-*cis*,14-*cis*, 17-*cis*), $C_{20:4}$(5-*cis*,8-*cis*, 11-*cis*, 14-*cis*), $C_{22:2}$(13-*cis*, 16-*cis*), $C_{20:5}$(5-*cis*,8-*cis*, 11-*cis*, 14-*cis*, 17-*cis*), $C_{22:5}$(7-*cis*,10-*cis*, 13-*cis*, 16-*cis*, 19-*cis*), $C_{22:6}$(4-*cis*,7-*cis*, 10-*cis*, 13-*cis*, 16-*cis*, 19-*cis*))	AOAC Official Method 996.06 (2010) (Hydrolytic extraction gas chromatography)
	- Total lipid fatty acid (as triglycerides)	In-house method FD-FOOD-TGI (By calculation)
General foodstuff (excluding food containing ethanol and organic acid)	- Energy	In-house method FD-FOOD-ENERGY (By calculation)
	- Carbohydrate	In-house method FD-FOOD-CARBO (By calculation)
Flour confectionary	Preservatives:-	
	- Propionic acid	In-house method FD-FOOD-PROP (GC-MS)

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
6/F, Techno Centre, 33 On Kui Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
General foodstuff	Preservatives:-	
	- Benzoic acid and Sorbic acid	In-house method FD-FOOD-BEN&SOR (HPLC-DAD)
	- Benzoic acid, Sorbic acid, Salicylic acid, Methyl para-hydroxybenzoate, Ethyl para-hydroxybenzoate, Propyl para-hydroxybenzoate	In-house method FD-FOOD-6PREV (HPLC-DAD)
	- Sulphur Dioxide	In-house method FD-FOOD-SO2-SCREENING (Screening) AOAC Official Method 990.28 (2005) (Quantitative)
	- Boric acid	In-house method FD-FOOD-BORIC-CA-FE (ICP-OES)
	Trace metals: -	
	- Antimony, Arsenic, Cadmium, Chromium, Lead, Mercury, Tin	In-house method FD-FOOD-METAL (ICP-MS)
	Contaminants :-	
	- Melamine	In-house method FD-FOOD-MEL (LC-MS-MS)
	Colouring matters: -	
	- Sudan I, Sudan II, Sudan III, Sudan IV, Sudan Orange G, Dimethyl yellow, Sudan Red 7B	In-house method FD-FOOD-SUDAN (LC/MS/MS)

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
6/F, Techno Centre, 33 On Kui Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Veterinary drug residue:-	
Meat and aquatic products	- Chloramphenicol	In-house method FD-FOOD-CAP-MEAT-AQU (LC/MS/MS)
Aquatic products	- Malachite green and Leucomalachite green	In-house method FD-FOOD-MG (LC/MS/MS)
	Mycotoxins: -	
Oils, nuts and cereals	- Aflatoxins B_1, B_2, G_1, G_2	In-house method FD-FOOD-AFLA (HPLC-FLD) In-house method FD-FOOD-AFLA-MS (confirmation test: LC/MS/MS)
	Trace metals: -	
Fruit and Vegetables	- Lead, Mercury	In-house method FD-FOOD-METAL-VEG (ICP-MS)

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
6/F, Techno Centre, 33 On Kui Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Fruit and Vegetables	Pesticide residues:- - Organochlorine pesticides: Aldrin, trans-Chlordane, cis-Chlordane, Oxychlordane, Dieldrin, Endrin, Endrin ketone (delta-keto-endrin), Heptachlor, Heptachlor epoxide, Hexachlorobenzene, Hexachlorocyclohexane isomers (alpha-, beta- and delta-BHC), Lindane, 2,4'-DDT, 4,4'-DDT, 2,4'-DDE, 4,4'-DDE, 2,4'-DDD, 4,4'-DDD, Quintozene (pentachloronitrobenzene), Pentachloroaniline, Methyl pentachlorophenyl sulphide Chlorothalonil, Chlorfenapyr, Dichlobenil, 2,6-dichlorobenzamide, o,p'- Dicofol, p,p'- Dicofol, Endosulfan I, Endosulfan II, Endosulfan sulphate, Procymidone, Trifluralin	In-house method FD-PEST-OCP1 (Screening and quantitative by GC-MS/MS)

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
6/F, Techno Centre, 33 On Kui Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Fruit and Vegetables	Pesticides residues : (cont'd) - Pyrethroid pesticides:- Bifenthrin, Cyfluthrins, Cypermethrins, Deltamethrin, Fenvalerate, Esfenvalerate, Fenpropathrin, Flucythrinate, Permethrins	In-house method FD-PEST-PY (Screening and quantitative by GC/MS/MS)

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
6/F, Techno Centre, 33 On Kui Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Pesticides residues : (cont'd)	
Fruit and Vegetables	- Dimethipin, Fipronil, Folpet,	In-house method FD-PEST-GEN-GC (Screening and quantitative by GC-MS/MS)
	- Benfluralin, Chlorethoxyfos, Dicloran, Ethalfluralin, Tecnazene	In-house method FD-PEST-GEN-GC1 (Screening and quantitative by GC-MS/MS)
	- Organophosphorus pesticides :-	
Fruit and Vegetables ***<Excluding the following>*** Garlic, onion, spring onion, leek and chives	Cadusafos, Chlorpyrifos, Demeton-S-methyl, Demeton-S-methylsulfone, Oxydemeton-methyl, Diazinon, Dimethoate, Ethion, Fenitrothion, Fenthion, Fenthion sulphoxide, Fenthion sulfone, Fenthion oxon, Fenamiphos, Fenamiphos sulfoxide, Fenamiphos sulfone, Isocarbophos, Isofenphos-methyl, Methamidophos, Naled, Omethoate, Parathion-methyl, Parathion-ethyl, Phorate, Phorate sulfoxide, Phorate sulfone, Phorate oxon, Quinalphos, Vamidothion	In-house methods FD-PEST-OPP1 (Screening and quantitative by LC/MS/MS)

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
6/F, Techno Centre, 33 On Kui Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Pesticides residues :- (cont'd) - Carbamates: -	
Fruit and Vegetables **<*Excluding the following*>** Garlic, onion, spring onion, leek and chives	Aldicarb sulfoxide, Benfuracarb, Carbaryl, Carbofuran, 3-hydroxycarbofuran, Carbosulfan, Methiocarb, Methiocarb sulphoxide, Methiocarb sulphone, Methomyl, Oxamyl, Oxamyl oxime, Pirimicarb, Thiodicarb	In-house method FD-PEST-CB (Screening and quantitative by LC/MS/MS)
	- Triazoles: -	
Fruit and Vegetables **<*Excluding the following*>** Garlic, onion, spring onion, leek and chives	Difenoconazole, Diniconazole, Flusilazole, Tebuconazole	In-house method FD-PEST-TRIA (Screenng and quantitative by LC/MS/MS)

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
6/F, Techno Centre, 33 On Kui Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Pesticide residues:- (cont'd)	
Fruit and Vegetables ***<Excluding the following>*** Garlic, onion, spring onion, leek and chives	- Acetamiprid, Ametryn, Clomazone, Cymoxanil, Diphenylamine, Dodine, Ethoxyquin, Fenpyroximate, Fomesafen, Semiamitraz, Thiamethoxam	In-house method FD-PEST-GEN-LC (Screening and quantitative by LC-MS/MS)
Fruit and Vegetables ***<Excluding the following>*** Garlic, onion, spring onion, leek and chives	- Aldicarb, Aldicarb sulfone Cyhalothrin (sum of isomers), Fenthion-oxon-sulfoxide, Fenthion-oxon-sulfone, Phorate-oxon-sulfoxide, Phorate-oxon-sulfone, Pyrethrins (sum of cinerin I, cinerin II, jasmolin I, jasmolin II, pyrethrin I and pyrethrin II), Quizalofop,	In-house method FD-PEST-GEN-LC1 (Screening and quantitative by LC/MS/MS)

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
6/F, Techno Centre, 33 On Kui Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Fruit and Vegetables ***<Excluding the following>*** Garlic, onion, spring onion, leek and chives	Pesticides residues : (cont'd) - Acephate, Atrazine, Atrazine-desethyl-desisopropyl, Atrazine-desisopropyl, Benalaxyl, Bitertanol, Bromopropylate, Chlorimuron ethyl, Chlorpropham, Chlorpyrifos methyl, Cyprodinil, Dichlorvos, Diflubenzuron, Dimethomorph, Etofenprox, Fenarimol, Fenbuconazole, Fenhexamid, Fenpropimorph, Fluazinam, Flumioxazin, Fluopicolide, Fluvalinate, Fosthiazate, Halosulfuron methyl, Kresoxim methyl, Lactofen, Mandipropamid, Methoxyfenozide, Novaluron, Propamocarb, Propargite, Pymetrozine, Quinoxyfen, Tebufenozide, Tolclofos methyl, Trifloxystrobin, Zoxamide	In-house method FD-PEST-GEN-LC2 (Screening and quantitative by LC/MS/MS)

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
6/F, Techno Centre, 33 On Kui Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Fruit and Vegetables	Pesticide residues:- (cont'd) - Organochlorine pesticides:-- - Chlordane (sum of trans-Chlordane and cis-Chlordane) - DDT (sum of 2,4'-DDT, 4,4'-DDT, 4,4'-DDE and 4,4'-DDD) - Dichlobenil (sum of dichlobenil and 2,6-dichlorobenzamide) - Dicofol (sum of o,p'- dicofol and p,p'- dicofol) - Endosulfan (sum of endosulfan I, endosulfan II and endosulfan sulphate) - Endrin (sum of endrin and delta-keto-endrin) - Heptachlor (sum of heptachlor expoxide and heptachlor) - Hexachlorocyclohexane (HCH) (sum of alpha-HCH (alpha-BHC), beta-BHC (beta- HCH), delta-HCH (delta-BHC) and gamma-HCH (gamma-BHC (Lindane)) - Carbamates: - - Aldicarb (sum of aldicarb, aldicarb sulfoxide and aldicarb sulphone, expressed as aldicarb) - Carbofuran (sum of carbofuran and 3-hydroxycarbofuran, expressed as carbofuran)	In-house method FD-PEST-CAL (By calculation)

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
6/F, Techno Centre, 33 On Kui Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Fruit and Vegetables ***<Excluding the following>*** Garlic, onion, spring onion, leek and chives	Pesticides residues :- (cont'd) - Organophosphorus pesticides :- - Oxydemeton-methyl (sum of oxydemeton-methyl, demeton- S-methyl, demeton- S-methylsulfone, expressed as oxydemeton-methyl) - Fenamiphos (sum of fenamiphos, fenamiphos sulfoxide and fenamiphos sulfone, expressed as fenamiphos) - Fenthion (sum of fenthion, fenthion sulfone, fenthion sulfoxide, fenthion oxon, fenthion-oxon sulfone and fenthion-oxon sulfoxide, expressed as fenthion) - Naled (sum of naled and dichlorvos, expressed as naled) - Phorate (sum of phorate, phorate sulfoxide, phorate sulfone, phorate oxon, phorate-oxon-sulfone and phorate-oxon-sulfoxide, expressed as phorate) - Carbamates: - - Benfuracarb (sum of benfuracarb, carbofuran and 3-hydroxycarbofuran, expressed as carbofuran) - Methiocarb (sum of methiocarb, methiocarb sulphoxide and methiocarb sulphone, expressed as methiocarb) - Methomyl (sum of methomyl and thiodicarb, expressed as methomyl) - Oxamyl (sum of oxamyl and oxamyl oxime, expressed as oxamyl) - Pyrethrins (sum of cinerin I, cinerin II, jasmolin I, jasmolin II, pyrethrin I and pyrethrin II) - Quizalofop-ethyl (sum of quizalofop-ethyl and quizalofop, expressed as quizalofop-p-ethyl)	In-house method FD-PEST-CAL (By calculation) (cont'd)

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
6/F, Techno Centre, 33 On Kui Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

Food 食品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Microbiological examinations:-	
General foodstuff	- Coliform count	AOAC Official Methods, 991.14, 2005 (Petrifilm)
	- *E. coli* count	AOAC Official Methods, 991.14, 2005 (Petrifilm)
	- Aerobic Plate count	US FDA Bacteriological Analytical Manual Online (BAM online), Ch. 3, January 2001 (Conventional Plate Count Method)
	- Mold and yeast (total) counts	US FDA Bacteriological Analytical Manual Online (BAM online), Ch. 18, January 2001 (Conventional Plate Count Method)
	- *Salmonella*	US FDA Bacteriological Analytical Manual Online(BAM online), Ch. 5 December 2007
Selected Meats, Seafood and Poultry	- *Staphylococcus aureus* count	AOAC Official Methods 2003.11 (2005) (By 3M Petrifilm Method)
Selected Dairy Foods	- *Staphylococcus aureus* count	AOAC Official Methods 2003.08 (2005) (By 3M Petrifilm Method)
Selected Types of Processed and Prepared Foods	- *Staphylococcus aureus* count	AOAC Official Methods 2003.07 (2005) (By 3M Petrifilm Method)

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
6/F, Techno Centre, 33 On Kui Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

Miscellaneous 雜類		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Diesel fuel containing ≤ 0.025% (w/w) of lead	Sulfur	ASTM D2622-16 ***<Excluding the following>*** Cl. 5.2, Cl. 5.3 & Cl. 8.1
Diesel fuel	Sulfur	ISO 20884-2011 ***<Excluding the following>*** Cl. 4.3, Cl. 6 & Cl. 7.1 para. 2

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
6/F, Techno Centre, 33 On Kui Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

Pharmaceutical Products 藥物		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Physical and Chemical tests: -	
Paracetamol Tablets	a. Identification (Test A, FTIR) b. Assay	British Pharmacopoeia 2012 (BP2012)
	Toxic elements: -	
Active pharmaceutical ingredient and pharmaceutical products	- Arsenic, Cadmium, Lead and Mercury	In-house method FD-PP-HM-1 (by ICP-MS)
	Microbiological examinations:-	
Non-sterile pharmaceutical preparations and substances for pharmaceutical use	Microbiological quality	European Pharmacopoeia 8.0 edition (2014) Ch. 5.1.4 (Microbiological Quality of Non-sterile Pharmaceutical Preparations and Substances for Pharmaceutical Use
	- Microbial enumeration test	European Pharmacopoeia 8.0 edition (2014) Ch. 2.6.12
	- Test for specified microorganisms	European Pharmacopoeia 8.0 edition (2014) Ch. 2.6.13
Non-sterile pharmaceutical preparations and substances for pharmaceutical use	Microbiological quality	United States Pharmacopoeia (2014) Second Supplement (USP<1111>37th edition)
	- Microbial enumeration test	United States Pharmacopoeia (2014) Second Supplement (USP<61>37th edition)
	- Test for specified microorganisms	United States Pharmacopoeia (2014) General Ch. (USP<62>37th edition)

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
6/F, Techno Centre, 33 On Kui Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

Physical and Mechanical Testing 物理及機械測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Activated carbon		
- Activated carbon granules	Determination of apparent density	ASTM D2854-09 (reapproved 2019)
	Determination of particale size distribution	ASTM D2862-16 ***<Excluding the following>*** Section 6
	Determination of moisture content by oven drying test method	ASTM D2867-17 ***<Excluding the following>*** Section 10, 11, 12, 13, 14 and 15
	Determination of the ball-pan hardness number	ASTM D3802-16 ***<Excluding the following>*** Section 7

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
No. 68, Bijiaotou Group, Baiqi Village, Nanlang Street, Zhongshan City, Guangdong Province, China
中國廣東省中山市南朗街道白企村碑角頭小組 68 號

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Aggregates	Sampling	BS 812: Part 102: 1989 CS3: 2013 Section 8
	Particle size distribution	BS 812: Section 103.1: 1985 + Amd. 6003 (by sieve analysis) CS3: 2013 Section 10 + Amd. 1/2013 (by sieve analysis)
	Flakiness index	BS 812: Section 105.1: 1989 CS3: 2013 Section 11
	Elongation index	BS 812: Section 105.2: 1990 CS3: 2013 Section 12
	Ten per cent fines value	BS 812: Part 111: 1990 CS3: 2013 Section 16
	Particle densities and water absorption	BS 812: Part 2: 1995 + Amd. 9195 & 10379 CS3: 2013 Section 17
	Moisture content	BS 812: Part 109: 1990 (by oven drying method) CS3: 2013 Section 18 (by oven drying method)
	Clay, silt and dust content	BS 812: Part 1: 1975 + Amd. 4875 & 6587 (by decantation method)
	Shell content in coarse aggregates	BS 812: Part 106: 1985

Castco Testing Centre Ltd.
佳力高試驗中心有限公司
No. 68, Bijiaotou Group, Baiqi Village, Nanlang Street, Zhongshan City, Guangdong Province, China
中國廣東省中山市南朗街道白企村碑角頭小組 68 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Concrete	Sampling fresh concrete on site	CS1: 2010 Section 1 + Amd. 1/2017
	Slump of fresh concrete	CS1: 2010 Section 2 Part I + Amd. 1/2017
	Flow table test	CS1: 2010 Section 2 Part IV
	Density of compacted fresh concrete	CS1: 2010 Section 5
	Making test cubes from fresh concrete	CS1: 2010 Section 7
	Mixing and sampling of fresh concrete	CS1: 2010 Section 11
	Curing of test specimens (Tropical zone temperature)	CS1: 2010 Section 10
	Compressive strength of concrete cubes in the force range 20 kN - 2000 kN	CS1: 2010 + Amd. 1/2013 Section 12
	Compressive strength of concrete cores in the force range 20 kN – 2000 kN	CS1: 2010 Section 15 + Amd. 1/2013
	Density of hardened concrete	CS1: 2010 Section 16
Metallic materials	Bond property of steel reinforcing bars by surface geometry measurement	CS2: 2012 (Rev. 6) Cl. 6.1 & 6.7.2
	Mass per meter of steel reinforcing bars	CS2: 2012 (Rev. 6) Cl. 6.1 & 6.2
	Rebend test of reinforcing bars for reinforcement of concrete	CS2: 2012 (Rev. 6) Cl. 6.1 & 6.5
	Tensile test of reinforcing bars for reinforcement of concrete in the force range 10 kN – 1000 kN	BS EN ISO 6892-1: 2009 Cl. 10.4 Method B BS EN ISO 6892-1: 2016 Cl. 10.3.3 Method B BS EN ISO 6892-1: 2019 Cl. 10.3.3 Method B in conjunction with the following specification(s): CS2: 2012 (Rev. 6) Cl. 6.1 & 6.4

Castco Testing Centre Ltd.
佳力高試驗中心有限公司

Summary of Voluntary Suspension

.vs. denotes test for which accreditation has been voluntarily suspended with effect from 25 January 2025 (Notification Letter No. HOKLAS032-340).

UL VS Hong Kong Limited
優力勝邦檢測服務(香港)有限公司

ADDRESS 地址	:	16/F, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong 香港新界葵涌和宜合道63號麗晶中心B座16樓
ENQUIRY 查詢	:	Mr Joseph SIN Wing-tat, Quality Engineering Manager 冼永達先生，質量工程經理
TELEPHONE 電話	:	2943 4692
FAX 傳真	:	2480 5436
E-MAIL 電郵	:	joseph.sin@ul.com
WEBSITE ADDRESS 網址	:	https://crs.ul.com/en/
CLIENTELE 服務對象	:	Public 公眾

UL VS Hong Kong Limited
優力勝邦檢測服務(香港)有限公司

ADDRESS **地址**	:	16/F, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong 香港新界葵涌和宜合道 63 號麗晶中心 B 座 16 樓
ACCREDITED TEST CATEGORY **認可測試類別**	:	Chemical Testing 化學測試 Food 食品 Physical and Mechanical Testing 物理及機械測試 Textiles and Garments 紡織品及成衣 Toys and Children's Products 玩具及兒童產品

UL VS Hong Kong Limited
優力勝邦檢測服務(香港)有限公司
16/F, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 16 樓

Chemical Testing 化學測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Plastics	Cadmium content	Regulation (EC) No. 1907/2006 on REACH Annex XVII Item No. 23 as amended by Commission Regulation (EC) No. 552/2009 and Commission Regulation (EU) No. 494/2011 *Test procedures for compliance testing:-* EN 1122: 2001 Method B (wet decomposition)
Paints	Cadmium content	Regulation (EC) No. 1907/2006 on REACH Annex XVII Item No. 23 as amended by Commission Regulation (EC) No. 552/2009 and Commission Regulation (EU) No. 494/2011 *Test procedures for compliance testing:-* In House Method 211-AT-S0027 (by ICP-OES)
Leather 皮革	Free formaldehyde content 游離水解甲醛含量	GB/T 19941-2005 **<*Excluding the following*>** Cl. 4 ISO 17226-2:2008 + Corr. 1: 2009
	Chromium (VI)	EN ISO 17075-1: 2017

UL VS Hong Kong Limited
優力勝邦檢測服務(香港)有限公司
16/F, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 16 樓

Chemical Testing 化學測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Paint and other similar surface-coating materials (furniture articles for consumer use)	- Total lead content	US 16 CFR Part 1303 *Test procedures for compliance testing:-* CPSC Test method: CPSC-CH-E1003-09.1 Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings, February 25, 2011
Applied surface coating material of products for children, including furniture	- Total lead content	Canada Surface Coating Materials Regulations (SOR/2016-193), *Section 6* *Test procedures for compliance testing:-* CPSC Test method: CPSC-CH-E1003-09.1 Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings, February 25, 2011
Applied surface coating material of pencils and artists' brushes	- Total lead content	Canada Surface Coating Materials Regulations (SOR/2016-193), *Section 6* *Test procedures for compliance testing:-* In-house method: 211-AT-S0031 (by ICP-MS) CPSC Test method: CPSC-CH-E1003-09.1 Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings, February 25, 2011
Paint and similar surface coating materials	- Total lead content	In House Method 211-AT-S0037 (by ICP-OES) CPSC Test method: CPSC-CH-E1003-09.1 Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings, February 25, 2011
	- Total cadmium content	In House Method 211-AT-S0027 (by ICP-OES)

UL VS Hong Kong Limited
優力勝邦檢測服務(香港)有限公司
16/F, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 16 樓

Chemical Testing 化學測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Surface coating materials	- Total lead content	In-house method: 211-AT-S0031 (by ICP-MS)
	- Total mercury content	In-house method: 211-AT-S0031 (by ICP-MS)
Pencils, coloured pencils and graphic instruments 鉛筆、彩色鉛筆和繪圖用具	Migration of certain elements: - Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium 特定元素的遷移: – 銻, 砷, 鋇, 鎘, 鉻, 鉛, 汞, 硒	Australian Customs (Prohibited Imports) Regulations 1956, Schedule 2, Item 7 JIS S 6006: 2007 Cl. 6.1 (Table 4), 6.2 (Table 6), and 8.8 GB 8771-2007
Plasticized component	- Dibutyl Phthalate (DBP) - Di-(2-ethylhexyl) Phthalate (DEHP) - Benzyl Butyl Phthalate (BBP) - Di-n-octyl phthalate (DNOP) - Diisononyl phthalate (DINP) - Diisodecyl phthalate (DIDP)	CPSC Test Method: CPSC-CH-C1001-09.3 Standard Operating Procedure for Determination of Phthalates, April 1, 2010 ***<Excluding the following>*** Optional sample pre-screen using Infrared (IR) Spectrometry

UL VS Hong Kong Limited
優力勝邦檢測服務(香港)有限公司
16/F, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 16 樓

Chemical Testing 化學測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Products made from leather and textile products	Amine (Azo colourants): 1) 4-aminodiphenyl 2) benzidine 3) 4-chloro-o-toluidine 4) 2-naphthylamine 5) o-aminoazotoluene 6) 5-nitro-o-toluidine 7) 4-chloroaniline 8) 4-methoxy-m-phenylenediamine 9) 4,4'-diaminodiphenylmethane 10) 3,3'-dichlorobenzidine 11) 3,3'-dimethoxybenzidine 12) 3,3'-dimethylbenzidine 13) 4,4'-methylene-di-o-toluidine 14) p-cresidine 15) 4,4'-methylene-bis-(2-chloro-aniline) 16) 4,4'-oxydianiline 17) 4,4'-thiodianiline 18) o-toluidine 19) 4-methyl-m-phenylenediamine 20) 2,4,5-trimethylaniline 21) 2-methoxyaniline	Regulation (EC) No. 1907/2006 on REACH Annex XVII Item No 43 as amended by Commission Regulation (EC) No. 552/2009 and Commission Regulation (EU) No. 2020/2096 *Test Procedure for compliance testing for leather products:* - EN ISO 17234-1: 2015 *Test Procedure for compliance testing for textile products :* - EN ISO 14362-1:2017
	4-aminoazobenzene	*Test Procedure for compliance testing for leather products:* - EN ISO 17234-2:2011 *Test Procedure for compliance testing for textile products :* - EN 14362-3:2017 Techniques used are GC-MSD and HPLC-DAD for all test methods listed above.

UL VS Hong Kong Limited
優力勝邦檢測服務(香港)有限公司
16/F, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 16 樓

Chemical Testing 化學測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Products made from leather	Amine (Azo colourants): 1) 4-aminodiphenyl 2) benzidine 3) 4-chloro-o-toluidine 4) 2-naphthylamine 5) o-aminoazotoluene 6) 5-nitro-o-toluidine 7) 4-chloroaniline 8) 4-methoxy-m-phenylenediamine 9) 4,4'-diaminodiphenylmethane 10) 3,3'-dichlorobenzidine 11) 3,3'-dimethoxybenzidine 12) 3,3'-dimethylbenzidine 13) 4,4'-methylene-di-o-toluidine 14) p-cresidine 15) 4,4'-methylene-bis-(2-chloro-aniline) 16) 4,4'-oxydianiline 17) 4,4'-thiodianiline 18) o-toluidine 19) 4-methyl-m-phenylenediamine 20) 2,4,5-trimethylaniline 21) 2-methoxyaniline	ISO 17234-1:2015
	4-aminoazobenzene	EN ISO 17234-2:2011 ISO 17234-2:2011 Techniques used are GC-MSD and HPLC-DAD for all test methods listed above.

UL VS Hong Kong Limited
優力勝邦檢測服務(香港)有限公司
16/F, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 16 樓

Chemical Testing 化學測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Products made from leather and fur 皮革和毛皮產品及其製品	Amine (Azo colourants) 芳香胺(偶氮染料) : 1) 4-氨基聯苯 (4-aminodiphenyl) 2) 聯苯胺 (benzidine) 3) 4-氯鄰甲苯胺 (4-chloro-o-toluidine) 4) 2-萘胺 (2-naphthylamine) 5) 鄰氨基偶氮甲苯 (2-aminoazotoluene) 6) 2-氨基-4-硝基甲苯 (2-amino-4-nitrotoluene) 7) 對氯苯胺(p-chloroaniline) 8) 2,4-二氨基苯甲醚(2,4-diaminoanisole) 9) 4,4'-二氨基二苯甲烷 (4,4'-diaminodiphenylmethane) 10) 3,3'-二氯聯苯胺 (3,3'-dichlorobenzidine) 11) 3,3'-二甲氧基聯苯胺 (3,3'-dimethoxybenzidine) 12) 3,3'-二甲基聯苯胺 (3,3'-dimethylbenzidine) 13) 3,3'-二甲基-4,4'二氨基二苯甲烷 (3,3'-dimethyl-4,4'- diaminodiphenylmethane) 14) 3-氨基對甲苯甲醚 (p-克利酊) (p-cresidine) 15) 4,4'-次甲基-雙-(2-氯苯胺) [4,4'-methylene-bis-(2-chloroaniline)] 16) 4,4'-二氨基二苯醚 (4,4'-oxydianiline) 17) 4,4'-二氨基二苯硫醚 (4,4'-thiodianiline) 18) 鄰甲苯胺(2-toluidine) 19) 2,4'-二氨基甲苯(2,4-toluylenediamine) 20) 2,4,5-三甲基苯胺(2,4,5-trimethylaniline) 21) 鄰甲基苯胺(鄰氨基苯甲醚)(2-anisidine) 22) 2,4-二甲基苯胺(2,4-xylidine) 23) 2,6-二甲基苯胺(2,6-xylidine)	GB 20400-2006 clauses 5.1 & 6.1 *Test procedures for compliance testing:* GB/T 19942-2005 Techniques used are GC-MSD and HPLC-DAD for all test methods listed above.

UL VS Hong Kong Limited
優力勝邦檢測服務(香港)有限公司
16/F, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 16 樓

Chemical Testing 化學測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Textile products	Amine (Azo colourants): 1) 4-aminodiphenyl 2) benzidine 3) 4-chloro-o-toluidine 4) 2-naphthylamine 5) o-aminoazotoluene 6) 5-nitro-o-toluidine 7) 4-chloroaniline 8) 4-methoxy-m-phenylenediamine 9) 4,4'-diaminodiphenylmethane 10) 3,3'-dichlorobenzidine 11) 3,3'-dimethoxybenzidine 12) 3,3'-dimethylbenzidine 13) 4,4'-methylene-di-o-toluidine 14) p-cresidine 15) 4,4'-methylene-bis-(2-chloro-aniline) 16) 4,4'-oxydianiline 17) 4,4'-thiodianiline 18) o-toluidine 19) 4-methyl-m-phenylenediamine 20) 2,4,5-trimethylaniline 21) 2-methoxyaniline 4-aminoazobenzene	EN ISO 14362-1:2017 ISO 24362-1: 2014 EN ISO 14362-3:2017 ISO 24362-3: 2014 Techniques used are GC-MSD and HPLC-DAD for all test methods listed above.

UL VS Hong Kong Limited
優力勝邦檢測服務(香港)有限公司
16/F, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 16 樓

Chemical Testing 化學測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Products made of textile 紡織品	Amine (Azo colourants) 芳香胺(偶氮染料) :	
	1) 4-氨基聯苯 (4-aminodiphenyl) 2) 聯苯胺 (benzidine) 3) 4-氯鄰甲苯胺 (4-chloro-o-toluidine) 4) 2-萘胺 (2-naphthylamine) 5) 鄰氨基偶氮甲苯 (2-aminoazotoluene) 6) 2-氨基-4-硝基甲苯 (2-amino-4-nitrotoluene) 7) 對氯苯胺(p-chloroaniline) 8) 2,4-二氨基苯甲醚(2,4-diaminoanisole) 9) 4,4'-二氨基二苯甲烷 (4,4'-diaminodiphenylmethane) 10) 3,3'-二氯聯苯胺 (3,3'-dichlorobenzidine) 11) 3,3'-二甲氧基聯苯胺 (3,3'-dimethoxybenzidine) 12) 3,3'-二甲基聯苯胺 (3,3'-dimethylbenzidine) 13) 3,3'-二甲基-4,4'二氨基二苯甲烷 (3,3'-dimethyl-4,4'- diaminodiphenylmethane) 14) 3-氨基對甲苯甲醚 (p-克利酊) (p-cresidine) 15) 4,4'-次甲基-雙-(2-氯苯胺) [4,4'-methylene-bis-(2-chloroaniline)] 16) 4,4'-二氨基二苯醚 (4,4'-oxydianiline) 17) 4,4'-二氨基二苯硫醚 (4,4'-thiodianiline) 18) 鄰甲苯胺(2-toluidine) 19) 2,4'-二氨基甲苯(2,4-toluylenediamine) 20) 2,4,5-三甲基苯胺(2,4,5-trimethylaniline) 21) 鄰甲基苯胺(鄰氨基苯甲醚)(2-anisidine) 22) 2,4-二甲基苯胺(2,4-xylidine) 23) 2,6-二甲基苯胺(2,6-xylidine)	GB 18401-2010 clauses 5.1 & 6.8 *Test procedures for compliance testing*: GB/T 17592-2011
	4-氨基偶氮苯 (4-aminoazobenzene)	GB 18401-2010 clauses 5.1 & 6.8 *Test procedures for compliance testing*: GB/T 23344-2009 Techniques used are GC-MSD and HPLC- DAD for all test methods listed above.

UL VS Hong Kong Limited
優力勝邦檢測服務(香港)有限公司
16/F, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 16 樓

Chemical Testing 化學測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Products intended to come into direct contact with skin and piercing parts	Release of nickel	EN 1811:2011+A1:2015 EN 12472: 2005 + A1: 2009 & EN 1811:2011+A1:2015
Products intended to come into direct contact with skin and piercing parts	Release of nickel	Regulation (EC) No. 1907/2006 on REACH Annex XVII Item No 27 as amended by Commission Regulation (EC) No. 552/2009 *Test procedures for compliance testing:* EN 1811: 2023
Coated articles that come into direct and prolonged contact with the skin (excluding articles with an outer coating containing nickel and those which are inserted into pierced ears and other parts of the human body)		Regulation (EC) No. 1907/2006 on REACH Annex XVII Item No 27 as amended by Commission Regulation (EC) No. 552/2009 *Test procedures for compliance testing:* EN 12472: 2020 & EN 1811: 2023
Jewellery 首飾	Release of nickel 鎳釋放量	GB/T 19719-2005 Determination of the release of nickel –Method of spectrometry GB/T 19719-2005 鎳釋放量的測定 – 光譜法 GB/T 28485-2012 Detection of nickel release – Method for simulation of wear and corrosion & GB/T 19719-2005 Determination of the release of nickel –Method of spectrometry GB/T 28485-2012 鎳釋放量的測定 – 磨損和腐蝕模擬法 & GB/T 19719-2005 鎳釋放量的測定 – 光譜法

UL VS Hong Kong Limited
優力勝邦檢測服務(香港)有限公司
16/F, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 16 樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Toxicological tests:-	Specifications and Standards for Foods, Food Additives, etc. Under the Japan Food Sanitation Act (Abstracts) 2010, JETRO April 2011, Part IV "Apparatus, Containers / Packages" & Ministry of Health and Welfare Notification No. 370, 1959 and Ministry of Health, Labour and Welfare Notification No. 336, 2010 *Test procedures for compliance testing:* Specifications, Standards and Testing Methods for Foodstuffs, Implements, Containers and Packaging, Toys, Detergents, JETRO 2008 (based on the tentative English translation publishedby JETRO, January 2009) – Part II
Food containers (glass, ceramic and enamel ware)	- Leachable Cadmium and Lead	Section D-1
Food containers (synthetic resin in general) ***<Excluding the following>*** Phenol resin, melamine resin and urea resin	- Consumption of potassium permanganate	Section B-1 & D2 (1) b (ii)
Food containers (synthetic resin in general)	- Heavy metals as lead - Lead, Cadmium	Section B-4 & D2 (1) b (i) Section B-9 & D-2 (1) a
Food containers (Phenol resin, melamine resin and urea resin, synthetic resin made from formaldehyde)	- Evaporation residues - Monomer tests (phenol, formaldehyde)	Section B-5 & D2 (2) a (i) <3> & D2 (2) b (i)<2> Section B-8 & D2 (2) a (i) <1> Section B-8 & D2 (2) a (i) <2>, D2 (2) b (i) <1>
Food containers (PVC)	- Evaporation residues - Dibutyltin compounds - Tricresyl phosphate - Vinyl chloride	Section B-5 & D-2 (2) c (ii) Section D-2 (2) c (i) <1> (with modifications) Section D-2 (2) c (i) <2> (with modifications) Section D-2 (2) c (i) <3> (with modifications)
Food containers (PE & PP)	- Evaporation residues	Section B-5 & D-2 (2) d(i)
Food containers (PS)	- Evaporation residues - Volatile substances	Section B-5 & D-2(2)e(ii) Section D-2 (2) e (i) (with modifications)

UL VS Hong Kong Limited
優力勝邦檢測服務(香港)有限公司
16/F, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 16 樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Toxicological tests:- (cont'd)	Specifications and Standards for Foods, Food Additives, etc. Under the Japan Food Sanitation Act (Abstracts) 2010, JETRO April 2011, Part IV "Apparatus, Containers / Packages" & Ministry of Health and Welfare Notification No. 370, 1959 and Ministry of Health, Labour and Welfare Notification No. 336, 2010 *Test procedures for compliance testing:* Specifications, Standards and Testing Methods for Foodstuffs, Implements, Containers and Packaging, Toys, Detergents, JETRO 2008 (based on the tentative English translation publishedby JETRO, January 2009) – Part II
Food containers (PVDC)	- Evaporation residues - Barium - Vinylidene chloride	Section B-5 & D-2(2) f (ii) Section B-9 & D-2 (2) f (i) <1> Section D-2 (2) f (i) <2> (with modifications)
Food containers (PET)	- Evaporation residues - Antimony - Germanium	Section B-5 & D-2 (2) g (i) <3> Section D-2 (2) g (i) <1> (with modifications) Section D-2 (2) g (i) <2> (with modifications)
Food containers (PMMA)	- Evaporation residues - Methyl methacrylate	Section B-5 & D-2 (2) h (i) <2> Section D-2 (2) h (i) <1> (with modifications)
Food containers (PA)	- Evaporation residues - Caprolactam	Section B-5 & D-2 (2) i (i) <2> Section D-2 (2) i (i) <1> (with modifications)
Food contacting materials (implements or containers / packages that contact with food fats and oils or fat-rich foods) made of polyvinyl chloride	- DEHP	Section A-7 & B-10 & in-house method 211-AT-S0069 (by GC-MS)

UL VS Hong Kong Limited
優力勝邦檢測服務(香港)有限公司
16/F, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 16 樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Toxicological tests:- (cont'd)	Specifications and Standards for Foods, Food Additives, etc. Under the Japan Food Sanitation Act (Abstracts) 2010, JETRO April 2011, Part IV "Apparatus, Containers / Packages" & Ministry of Health and Welfare Notification No. 370, 1959 and Ministry of Health, Labour and Welfare Notification No. 336, 2010 *Test procedures for compliance testing:*
Food contacting materials (implements and containers / packages) made of the following synthetic resins: formaldehyde, Polyvinyl chloride (PVC), Polyethylen (PE), Polypropylene (PP), Polystyrene (PS), Polyvinylidene Chloride (PVDC), Polyethylene Terephthalate (PET), Polymethyl Methacrylate (PMMA), Nylon (PA)	- Colors	In-house method: 211-AT-S0075 (by HPLC-DAD)

UL VS Hong Kong Limited
優力勝邦檢測服務(香港)有限公司
16/F, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 16 樓

Physical and Mechanical Testing 物理及機械測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Metal finished products	Performance tests	
- Coated structure or article with dry film thickness up to 5.0 mils (125 μm)	- Adhesion measurement by tape test	ASTM D3359-09e2 Method B **< *Excluding the following* >** 12.1
- Coated structure or article with dry film thickness up to 120 μm	- Cross-cut test	BS EN ISO 2409: 2013 EN ISO 2409: 2013 ISO 2409: 2013 **< *Excluding the following* >** for the above three standards Cl. 5.2 and 5.3

UL VS Hong Kong Limited
優力勝邦檢測服務(香港)有限公司
16/F, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 16 樓

Textiles and Garments 紡織品及成衣		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Care performance tests :-	
- General Textiles and Garments 一般紡織品及成衣	- Dimensional stability to washing	AATCC Test Method 135-2018t AATCC Test Method 150-2018t BS EN ISO 5077: 2008 EN ISO 5077: 2008 ISO 5077: 2007 (for the above three standards using the following standards for specimen treatment) BS EN ISO 6330: 2012 EN ISO 6330: 2012 ISO 6330: 2012
	- Preparation, marking and measuring for dimensional change tests	BS EN ISO 3759: 2011 EN ISO 3759: 2011 ISO 3759: 2011
	- Preparation, marking and measuring for dimensional change tests	GB/T 8628-2013
	- 測定尺寸變化的試驗中織物試樣和服裝的準備、標記及測量	GB/T 8628-2013
	- Wash and wear performance	AATCC Test Method 88B-2018t AATCC Test Method 88C-2018t AATCC Test Method 124-2018t AATCC Test Method 143-2018t ISO 7768: 2009 ISO 7769: 2009 ISO 7770: 2009
	- Skewness after washing	AATCC Test Method 179-2019
	- Spirality	BS ISO 16322-3: 2021 ISO 16322-2: 2021 ISO 16322-3: 2021

UL VS Hong Kong Limited
優力勝邦檢測服務(香港)有限公司
16/F, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 16 樓

Textiles and Garments 紡織品及成衣		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Chemical analysis :-	
- General Textiles and Garments	- Free formaldehyde content	EN ISO 14184-1: 2011 ISO 14184-1: 2011 JIS L 1041: 2011 Section 8.1
	- pH value (Textiles)	AATCC Test Method 81-2012 EN ISO 3071: 2006 ISO 3071: 2005
	- Released formaldehyde content	BS EN ISO 14184-2: 2011 EN ISO 14184-2: 2011 ISO 14184-2: 2011
- Leather	- Free formaldehyde content	BS EN ISO 17226-2: 2008 + Corr. 1 EN ISO 17226-2: 2008 + AC ISO 17226-2: 2008 with Corr. 1 IULTCS/IUC 19-2: 2008 with Corr. 1
	- Chromium (VI)	EN ISO 17075-1: 2017 ISO 17075-1: 2017

UL VS Hong Kong Limited
優力勝邦檢測服務(香港)有限公司
16/F, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 16 樓

Textiles and Garments 紡織品及成衣		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Colour fastness tests :-	
- General Textiles and Garments	- Bleaching (hypochlorite)	ISO 105-N01: 1993
	- Chlorinated water	AATCC Test Method 162-2011e2 BS EN ISO 105-E03: 2010 EN ISO 105-E03: 2010 ISO 105-E03: 2010
	- Dry cleaning	AATCC Test Method 132-2013 BS EN ISO 105-D01: 2010 EN ISO 105-D01: 2010 ISO 105-D01: 2010
	- Hot pressing	AATCC Test Method 133-2013 BS EN ISO 105-X11: 1996 EN ISO 105-X11: 1996 ISO 105-X11: 1994
	- Light	AATCC Test Method 16.3-2020 BS EN ISO 105-B02: 2014 EN ISO 105-B02: 2014 ISO 105-B02: 2014
	- Perspiration	AATCC Test Method 15-2021e ISO 105-E04: 2013 ***<Excluding the following>*** for the above two standards Instrument rating method BS EN ISO 105-E04: 2013 EN ISO 105-E04: 2013
	- Perspiration & light	AATCC Test Method 125-2013e2(2020)

UL VS Hong Kong Limited
優力勝邦檢測服務(香港)有限公司

16/F, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 16 樓

Textiles and Garments 紡織品及成衣		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Colour fastness tests :-	
- General Textiles and Garments	- Phenolic yellowing	BS EN ISO 105-X18: 2007 EN ISO 105-X18: 2007 ISO 105-X18: 2007
	- Rubbing/crocking	AATCC Test Method 8-2016e(2022)e AATCC Test Method 116-2018e AATCC Test Method 165-1999e10(2021)e BS EN ISO 105-X12: 2016 EN ISO 105-X12: 2016 ISO 105-X12: 2016 BS EN ISO 105-X16: 2016 EN ISO 105-X16: 2016 ISO 105-X16: 2016
	- Saliva and Perspiration	DIN 53160-1: 2010 DIN 53160-2: 2010
	- Seawater	AATCC Test Method 106-2013e3 BS EN ISO 105-E02: 2013 EN ISO 105-E02: 2013 ISO 105-E02: 2013
	- Spotting (water)	AATCC Test Method 104-2014e2 BS EN ISO 105-E07: 2010 EN ISO 105-E07: 2010 ISO 105-E07: 2010

UL VS Hong Kong Limited
優力勝邦檢測服務(香港)有限公司
16/F, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 16 樓

Textiles and Garments 紡織品及成衣		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Colour fastness tests :-	
- General Textiles and Garments	- Washing	AATCC Test Method 61-2013e(2020) BS EN ISO 105-C06: 2010 EN ISO 105-C06: 2010 ISO 105-C06: 2010 BS EN ISO 105-C08: 2010 EN ISO 105-C08: 2010 ISO 105-C08: 2010 BS EN ISO 105-C09: 2003 with Amd. 1 + Amd. 2 EN ISO 105-C09: 2003 + A1 ISO 105-C09: 2001 + A1
	- Water	AATCC Test Method 107-2022e BS EN ISO 105-E01: 2013 EN ISO 105-E01: 2013 ISO 105-E01: 2013

UL VS Hong Kong Limited
優力勝邦檢測服務(香港)有限公司
16/F, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 16 樓

Textiles and Garments 紡織品及成衣		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Construction tests:	
- General Textiles and Garments	- Fabric weight	ASTM D3776/ D3776M-20 BS EN 12127: 1998 EN 12127: 1997 ISO 3801: 1977
	- Fabric width	ASTM D3774-18 BS EN 1773: 1997 EN 1773: 1996 ISO 22198: 2006
	- Threads per unit length, woven	ASTM D3775-17(2023) BS EN 1049-2: 1994 EN 1049-2: 1993 ISO 7211-2: 1984
	- Twist of yarn	ASTM D1423/D1423M-16 BS EN ISO 2061: 2015 EN ISO 2061: 2015 ISO 2061: 2015 BS ISO 7211-4: 1984 ISO 7211-4: 1984
	- Yarn liner density	ASTM D1059-01 BS ISO 7211-5: 2020 ISO 7211-5: 2020
	- Weft knit, stitch density	BS 5441: 1988 with Amd. 1
- Specific Products :-		
- Children's upper outerwear	- Measurement of drawstrings	ASTM F1816 – 97 (2009) BS EN 14682: 2014 DIN EN 14682: 2015 EN 14682: 2014 US 16 CFR Part 1120

UL VS Hong Kong Limited
優力勝邦檢測服務(香港)有限公司
16/F, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 16 樓

Textiles and Garments 紡織品及成衣		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Fabric performance tests :-	
- General Textiles and Garments	- Abrasion resistance	
	a) Martindale tester	ASTM D4966-22 BS EN ISO 12947-1: 1998 with Corr. 1 EN ISO 12947-1: 1998 + AC ISO 12947-1: 1998 with Corr. 1 BS EN ISO 12947-3: 1998 with Corr. 1 EN ISO 12947-3: 1998 + AC ISO 12947-3: 1998 with Corr. 1 BS EN ISO 12947-4: 1998 with Corr. 1 EN ISO 12947-4: 1998 + AC ISO 12947-4: 1998 with Corr. 1 BS EN ISO 12947-2: 2016 DIN EN ISO 12947-2: 2017 EN ISO 12947-2: 2016 ISO 12947-2: 2016 **<*Excluding the following*>** for the above four standards Cl. 7.5.1
	b) Stoll flat abrasion tester	ASTM D3886-99 (2015)
	c) Flex abrasion tester	ASTM D3885-07a (2015)
	d) Taber abrasion tester	ASTM D3884-09 (2013)e1
	- Absorbency of bleached textiles	AATCC Test Method 79-2010e2(2018)e3
	- Air permeability	ASTM D737-04 (2016) BS EN ISO 9237: 1996 DIN EN ISO 9237: 1995 EN ISO 9237: 1995 ISO 9237: 1995
	- Oil repellency	AATCC Test Method 118-2013

UL VS Hong Kong Limited
優力勝邦檢測服務(香港)有限公司
16/F, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 16 樓

Textiles and Garments 紡織品及成衣		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Fabric performance tests :-	
- General Textiles and Garments	- Pilling resistance	ASTM D3512/D3512M-22 ASTM D4970/D4970M-16e3 BS EN ISO 12945-1: 2001 with Corr. 1 EN ISO 12945-1: 2000 ISO 12945-1: 2000 SN EN ISO 12945-1: 2021 BS EN ISO 12945-2: 2020 EN ISO 12945-2: 2020 ISO 12945-2: 2000 SN EN ISO 12945-2: 2000
	- Soil release performance	AATCC Test Method 130-2018t
	- Water repellency (spray rating)	AATCC Test Method 22-2017e BS EN ISO 4920: 2012 EN ISO 4920: 2012 ISO 4920: 2012
	- Water resistance (Hydrostatic pressure)	AATCC Test Method 127-2017(2018)e Option 2 ISO 811: 2018
	- Water resistance (Rain test)	AATCC Test Method 35-2018e2
	- Water resistance (Impact Penetration)	AATCC Test Method 42-2017e
	- Water vapour permeability	BS 7209: 1990 App. B
	- Wrinkle Recovery (Recovery Angle Method)	AATCC Test Method 66-2017e ISO 2313: 1972
	- Wrinkle Recovery (Appearance method)	AATCC Test Method 128-2017e ISO 9867: 2009

UL VS Hong Kong Limited
優力勝邦檢測服務(香港)有限公司
16/F, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 16 樓

Textiles and Garments 紡織品及成衣		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Fabric performance tests :-	
- General Textiles and Garments	- Solar UV Protective Properties	AATCC Test Method 183-2014 AS/NZS 4399: 1996 + A1 BS EN 13758-1: 2002 + Amd. 1 + Corr. 1 EN 13758-1: 2001 + A1 BS EN 13758-2: 2003 + Amd. 1 EN 13758-2: 2003 + A1

UL VS Hong Kong Limited
優力勝邦檢測服務(香港)有限公司
16/F, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 16 樓

Textiles and Garments 紡織品及成衣		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Flammability tests :-	
- General Textiles and Garments	45 degree angle test	US 16 CFR Part 1610 ASTM D1230-10 Canada Textile Flammability Regulations (SOR/2016-194), Item 3 using test method CAN/CGSB 4.2 No. 27.5-2008
- Specific Products :-		
- Bedding items	- 45 degree angle test	Canada Textile Flammability Regulations (SOR/2016-194), Item 4 using test method CAN/CGSB 4.2 No. 27.5-2008
- Carpet and rugs	- Method for determining the surface flammability when exposed to a methenamine tablet	US 16 CFR Parts 1630 and 1631
- Children's sleepwear	- Vertical test	US 16 CFR Parts 1615 and 1616 BS EN 14878: 2007 with Corr. 1 EN 14878: 2007 + AC BS EN 1103: 2005 EN 1103: 2005 BS EN ISO 6941: 2003 EN ISO 6941: 2003 ISO 6941: 2003
- Sleepwear	- Vertical test	BS 5722: 1984 BS 5438: 1976 Test 3
- Tight-fitting sleepwear	- 45 degree angle test	Canada Children's Sleepwear Regulations (SOR/2016-169), Item 2 using test method CAN/CGSB 4.2 No. 27.5-2008

UL VS Hong Kong Limited
優力勝邦檢測服務(香港)有限公司
16/F, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 16 樓

Textiles and Garments 紡織品及成衣		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Fibre analysis :-	
- General Textiles and Garments	- Fibre content (Qualitative method)	AATCC Test Method 20-2021 ***<Excluding the following>*** Refractive Index, Melting Point, Micro-FTIR, Density and Stain test and test for glass fibre
	- Fibre content (Quantitative method – mechanical separation and chemical analysis)	AATCC Test Method 20A-2021 ***<Excluding the following>*** Method No. 12.9 and 12.11 European Regulation (EU) No. 1007/2011 as amended by Commission Delegated Regulation (EU) No. 286/2012 ***<Excluding the following>*** Method Nos. 12, 15 and 16 ISO 1833-1: 2020 (Note: The above Part 1 standard should be used in conjunction with other parts of ISO 1833 for particular fibre mixtures) ISO 1833-2: 2020 ISO 1833-3: 2020 ISO 1833-4: 2017 ISO 1833-6: 2007 ISO 1833-7: 2017 ISO 1833-8: 2006 ISO 1833-9: 2019 ISO 1833-10: 2019 ISO 1833-11: 2017 ISO 1833-12: 2020 ISO 1833-13: 2019 ISO 1833-14: 2019 ISO 1833-16: 2019 ISO 1833-17: 2019 ISO 1833-18: 2020 ISO 1833-20: 2018

UL VS Hong Kong Limited
優力勝邦檢測服務(香港)有限公司
16/F, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 16 樓

Textiles and Garments 紡織品及成衣		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Fibre analysis :-	
- General Textiles and Garments	- Fibre content (Quantitative method – microscopic analysis)	AATCC Test Method 20A-2021 ***<Excluding the following>*** Method No. 14.3.1.2 and 14.3.2.2 BS EN ISO 17751-1: 2016 ISO 17751-1: 2016
	- Fibre diameter (Animal fibres, yarn and fabric only)	ASTM D2130-22 ISO 137: 2015

UL VS Hong Kong Limited
優力勝邦檢測服務(香港)有限公司
16/F, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 16 樓

Textiles and Garments 紡織品及成衣		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Strength tests :-	
- General Textiles and Garments	- Bursting strength	ASTM D3786/D3786M-18(2023) BS EN ISO 13938-1: 2019 EN ISO 13938-1: 2019 ISO 13938-1: 1999 BS EN ISO 13938-2: 2019 EN ISO 13938-2: 2019 ISO 13938-2: 1999
	- Pile retention	ASTM D4685-15
	- Seam slippage	ASTM D434-95 BS EN ISO 13936-1: 2004 EN ISO 13936-1: 2004 ISO 13936-1: 2004 BS EN ISO 13936-2: 2004 EN ISO 13936-2: 2004 ISO 13936-2: 2004
	- Seam strength	ASTM D1683/D1683M-22 BS EN ISO 13935-1: 2014 EN ISO 13935-1: 2014 ISO 13935-1: 2014 BS EN ISO 13935-2: 2014 EN ISO 13935-2: 2014 ISO 13935-2: 2014
	- Tensile strength	ASTM D5034-21 ASTM D5035-11(2019) BS EN ISO 13934-1: 2013 EN ISO 13934-1: 2013 ISO 13934-1:2013 BS EN ISO 13934-2: 2014 EN ISO 13934-2: 2014 ISO 13934-2:2014

UL VS Hong Kong Limited
優力勝邦檢測服務(香港)有限公司
16/F, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 16 樓

Textiles and Garments 紡織品及成衣		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Strength tests :-	
- General Textiles and Garments	- Tearing strength	ASTM D1424-21 BS EN ISO 13937-1: 2000 EN ISO 13937-1: 2000 + AC ISO 13937-1: 2000 with Corr. 1
	- Tearing strength (Tongue method)	ASTM D2261-13(2024) BS EN ISO 13937-2: 2000 with Corr. 1 EN ISO 13937-2: 2000 ISO 13937-2: 2000
- Specific Products :- - Zippers	- Zipper strength	ASTM D2061-07 (2013) ***<Excluding the following>*** Resistance to Cushioned Compression of Sliders, Slider Deflection and Recovery

UL VS Hong Kong Limited
優力勝邦檢測服務(香港)有限公司
16/F, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 16 樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests :-	
Toys	- Cellulose nitrate	Canada Toys Regulations (SOR/2011-17), Section 21 UK Toys (Safety) Regulations SI 1367: 1974 Section 3 *Test procedures for compliance testing:* In-house method: 211-AT-S0032 (FTIR, diphenylamine test)
Textile materials for toys intended for children under three years old	Free formaldehyde content	EN 71-9: 2005 + A1:2007 clause 4.3.1 *Test procedures for compliance testing:* ISO 14184-1:2011 TCVN 6238-9:2010 clause 4.3.1 (English translation published by Information Centre for Standards, Metrology and Quality, Vietnam) *Test procedures for compliance testing:* TCVN 7421-1:2004 (English translation published by Information Centre for Standards, Metrology and Quality, Vietnam)
Textile materials for toys	Free formaldehyde content	SNI ISO 14184-1:2015 (English version)
	Released formaldehyde content	SNI ISO 14184-2:2015 (English version)

UL VS Hong Kong Limited
優力勝邦檢測服務(香港)有限公司
16/F, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 16 樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests :- (cont'd)	
Pacifiers, rattles and teethers made of PVC	- DEHP	ASTM F963-17 Cl. 4.3.8 *Test procedures for compliance testing:* ASTM D3421-75 (with modifications)
Plasticized component of toy (including pacifiers, rattles, and teethers) for children 12 years of age and younger	- Dibutyl Phthalate (DBP) - Diisobutyl Phthalate (DIBP) - Di-n-pentyl phthalate (DPENP) - Di-n-hexyl phthalate (DHEXP) - Dicyclohexyl phthalate (DCHP) - Di-(2ethylhexyl) phthalate (DEHP) - Benzyl Butyl Phthalate (BBP) - Di-iso-nonyl phthalate (DINP)	ASTM F963-23 Cl. 4.3.8 *Test procedures for compliance testing:* CPSC Test Method: CPSC-CH-C1001-09.4 Standard Operating Procedure for Determination of Phthalates, January 17, 2018
Toys and child care articles	- Dibutyl Phthalate (DBP) - Diisobutyl Phthalate (DIBP) - Di-n-pentyl phthalate (DPENP) - Di-n-hexyl phthalate (DHEXP) - Dicyclohexyl phthalate (DCHP) - Di-(2ethylhexyl) phthalate (DEHP) - Benzyl Butyl Phthalate (BBP) - Di-iso-nonyl phthalate (DINP)	16 CFR 1307.3 *Test procedures for compliance testing:-* CPSC Test Method: CPSC-CH-C1001-09.4 Standard Operating Procedure for Determination of Phthalates, January 17, 2018
Toys and child care articles composed of vinyl materials	- Di(2-ethylhexyl) phthalate (DEHP) - Dibutyl phthalate (DBP) - Benzyl butyl phthalate (BBP) - Diisononyl phthalate (DINP) - Diisodecyl phthalate (DIDP) - Di-n-octyl phthalate (DNOP)	Canada Phthalates Regulations (SOR/2010-298) *Test procedures for compliance testing:-* CPSC Test Method: CPSC-CH-C1001-09.3 Standard Operating Procedure for Determination of Phthalates, April 1, 2010 ***<Excluding the following>*** Optional Sample Pre-screen Using Infrared (IR) Spectroscopy

UL VS Hong Kong Limited
優力勝邦檢測服務(香港)有限公司
16/F, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 16 樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests (cont'd) :-	
Products made of PE, PVC, PP, PS, ABS and polyamide	- Dibutyl phthalate (DBP) - Butyl benzyl phthalate (BBP) - Bis (2-ethylhexyl) phthalate (DEHP) - Di-n-octyl phthalate (DNOP) - Di-isononyl phthalate (DINP) - Di-isodecyl phthalate (DIDP) - 鄰苯二甲酸二丁酯 (DBP) - 鄰苯二甲酸丁苄酯 (BBP) - 鄰苯二甲酸二(2-乙基)己酯 (DEHP) - 鄰苯二甲酸二正辛酯 (DNOP) - 鄰苯二甲酸二異壬酯 (DINP) - 鄰苯二甲酸二異癸酯 (DIDP)	GB 6675.1-2014, Cl. 5.3.7 *Test procedures for compliance testing:* CPSC-CH-C1001-09.3 Standard Operating Procedure for Determination of Phthalates, April 1, 2010 ***<Excluding the following>*** Optional sample pre- screen using Infrared (IR) Spectrometry
Toys and children articles made of PE, PVC, PP, PS ABS and polyamide	- Dibutyl Phthalate (DBP) - Di-(2-ethylhexyl) Phthalate (DEHP) - Benzyl Butyl Phthalate (BBP) - Di-n-octyl phthalate (DNOP) - Diisononyl phthalate (DINP) - Diisodecyl phthalate (DIDP)	CPSC Test Method: CPSC-CH-C1001-09.3 Standard Operating Procedure for Determination of Phthalates, April 1, 2010 ***<Excluding the following>*** Optional Sample Pre-screen Using Infrared (IR) Spectroscopy
Toys and child care articles made of PVC	- Bis-(2-ethylhexyl) Phthalate (DEHP) - Dibutyl Phthalate (DBP) - Benzyl Butyl Phthalate (BBP) - Di-n-octyl Phthalate (DNOP) - Diisononyl Phthalate (DINP) - Diisodecyl Phthalate (DIDP)	Regulation (EC) No. 1907/2006 on REACH Annex XVII Item No. 51/52 as amended by Commission Regulation (EC) No. 552/2009 *Test Procedure for compliance testing:* EN 14372: 2004, clauses 5.4.2.3 and 6.3.2 ***< Excluding the following >*** Gravimetric analysis
Child use and care articles - Cutlery and feeding utensils	- Bis-(2-ethylhexyl) Phthalate (DEHP) - Dibutyl Phthalate (DBP) - Benzyl Butyl Phthalate (BBP) - Di-n-octyl Phthalate (DNOP) - Diisononyl Phthalate (DINP) - Diisodecyl Phthalate (DIDP)	EN 14372: 2004, clauses 5.4.2.3 and 6.3.2 ***< Excluding the following >*** Gravimetric analysis

UL VS Hong Kong Limited
優力勝邦檢測服務(香港)有限公司
16/F, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 16 樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests (cont'd) :-	
Toys (surface coating material)	- Total lead content	Canada Toys Regulations (SOR/2011-17), Section 23 *Test procedures for compliance testing:-* In-house method: 211-AT-S0031 (by ICP-MS) CPSC Test method: CPSC-CH-E1003-09.1 Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings, February 25, 2011
	- Leachable arsenic, selenium, cadmium, antimony and barium	*Test procedures for compliance testing:-* Health Canada Product Safety Reference Manual Book 5 – Laboratory Policies and Procedures Part B: Test Methods Section, Method C03 Determination of Leachable Arsenic, Selenium, Cadmium, Antimony and Barium in Applied Coatings (2014-02-20)
	- Total mercury content	*Test procedures for compliance testing:-* In-house method: 211-AT-S0031 (by ICP-MS)
Applied surface coating material of products for children,	- Total lead content	Canada Surface Coating Materials Regulations (SOR/2016-193), *Section 6* *Test procedures for compliance testing:-* In-house method: 211-AT-S0031 (by ICP-MS) CPSC Test method: CPSC-CH-E1003-09.1 Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings, February 25, 2011
Applied surface coating material of pencils and artists' brushes	- Total lead content	Canada Surface Coating Materials Regulations (SOR/2016-193), *Section 6* Test procedures for compliance testing:- In-house method: 211-AT-S0031 (by ICP-MS) CPSC Test method: CPSC-CH-E1003-09.1 Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings, February 25, 2011

UL VS Hong Kong Limited
優力勝邦檢測服務(香港)有限公司
16/F, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 16 樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests (cont'd) :-	
Consumer products that are brought into contact with the children's mouth in the course of normal use (other than kitchen utensils and a product that is subject to the *Glazed Ceramics and Glassware Regulations*), consumer products intended for use in learning or play by a child under 14 years of age, and book or similar printed product (made of vinyl, plastic or metal) that is intended for a child under 14 years of age ***<Excluding the following>*** clothing or clothing accessory, product facilitating relaxation, sleep, hygiene, carrying or transportation of a child	- Total lead content (metal components)	Canada Consumer Products Containing Lead Regulations (SOR/2018-83) in conjunction with Information for Regulated Parties Regarding the Consumer Product Containing Lead Regulation, January 26, 2022 *Test procedures for compliance testing:-* CPSC Test Method: CPSC-CH-E1001-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Children's Metal Products (Including Children's Metal Jewelry), Revision November 15, 2012 ***<Excluding the following>*** Identification and Quantification of Pb using XRF Spectrometry
	- Total lead content (non-metal components)	CPSC Test Method: CPSC-CH-E1002-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Non-Metal Children's Products, Revision November 15, 2012 ***<Excluding the following>*** Identification and Quantification of Pb using XRF Spectrometry

UL VS Hong Kong Limited
優力勝邦檢測服務(香港)有限公司
16/F, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 16 樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests (cont'd):-	
Soft infant and toddler carrier (surface coating materials)	- Total lead content	ASTM F2236-16a Cl. 5.3 in conjunction with 16CFR1303 *Test procedures for compliance testing:-* CPSC Test method: CPSC-CH-E1003-09.1 Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings, February 25, 2011
Toys – paint and similar surface-coating materials	- Total lead content	ASTM F963-17 Cl. 4.3.5.1 (1) *Test procedures for compliance testing:-* CPSC Test method: CPSC-CH-E1003-09.1 Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings, February 25, 2011
	- Soluble migrated elements: Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	ASTM F963-17 Cl. 4.3.5.1(2) *Test procedures for compliance testing:-* ASTM F963-17 Cl. 8.3.2 – 8.3.4
	- Total element content (screening) Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	ASTM F963-17 Cl. 4.3.5.1(1) & (2) *Test procedures for compliance testing:-* In house method 211-AT-S0027 (by ICP-OES)

UL VS Hong Kong Limited
優力勝邦檢測服務(香港)有限公司
16/F, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 16 樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests (cont'd):-	
Toys – substrate materials (Accessible non-metallic toys or toy components that are small parts)	- Total lead content	ASTM F963-17 Cl. 4.3.5.2 (2)(a) *Test procedures for compliance testing:-* CPSC Test Method: CPSC-CH-E1002-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Non-Metal Children's Products, Revision November 15, 2012 ***<Excluding the following>*** Identification and Quantification of Pb using XRF Spectrometry
	- Soluble migrated elements: Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	ASTM F963-17 Cl. 4.3.5.2(2)(b) *Test procedures for compliance testing:-* ASTM F963-17 Cl. 8.3.5
	- Total element content (screening) Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	ASTM F963-17 Cl. 4.3.5.2(2)(a) & (b) *Test procedures for compliance testing:-* In house method 211-AT-S0052 (by ICP-OES)

UL VS Hong Kong Limited
優力勝邦檢測服務(香港)有限公司
16/F, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 16 樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests (cont'd) :-	
Toys – substrate materials (Accessible metallic toys or toy components that are small parts, excluding children's jewellery)	- Total lead content	ASTM F963-17 Cl. 4.3.5.2 (2)(a) *Test procedures for compliance testing:-* CPSC Test Method: CPSC-CH-E1001-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Children's Metal Products (including Children's Metal Jewelry), Revision November 15, 2012 ***<Excluding the following>*** Identification and Quantification of Pb using XRF Spectrometry
	- Soluble migrated elements: Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	ASTM F963-17 Cl. 4.3.5.2 (2)(b) *Test procedures for compliance testing:-* ASTM F963-17 Cl. 8.3.5.1, 8.3.5.2, 8.3.5.3 & 8.3.5.5
	- Total element content (screening) Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	ASTM F963-17 Cl. 4.3.5.2(2)(a) & (b) *Test procedures for compliance testing:-* In house method 211-AT-S0051 (by ICP-MS)
	- Extractable cadmium content	ASTM F963-17 Cl. 4.3.5.2(2)(c) *Test procedures for compliance testing:-* CPSC Test Method: CPSC-CH-E1004-11 Standard Operating Procedure for Determining Cadmium (Cd) Extractability from Children's Metal Jewelry, February 03, 2011

UL VS Hong Kong Limited
優力勝邦檢測服務(香港)有限公司
16/F, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 16 樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Chemical tests (cont'd):-	
Toys – paint and similar surface-coating materials	- Total lead content	ASTM F963-23 Cl. 4.3.5.1 (1) *Test procedures for compliance testing:-* CPSC Test method: CPSC-CH-E1003-09.1 Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings, February 25, 2011
	- Soluble migrated elements: Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	ASTM F963-23 Cl. 4.3.5.1(2) *Test procedures for compliance testing:-* ASTM F963-23 Cl. 8.3.2 – 8.3.4
	- Total element content (screening) Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	ASTM F963-23 Cl. 4.3.5.1(1) & (2) *Test procedures for compliance testing:-* In house method 211-AT-S0027 (by ICP-OES)
Toys – substrate materials (Accessible non-metallic toys or toy components that are small parts)	- Total lead content	ASTM F963-23 Cl. 4.3.5.2 (2)(a) *Test procedures for compliance testing:-* CPSC Test Method: CPSC-CH-E1002-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Non-Metal Children's Products, Revision November 15, 2012 ***<Excluding the following>*** Identification and Quantification of Pb using XRF Spectrometry
	- Soluble migrated elements: Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	ASTM F963-23 Cl. 4.3.5.2(2)(b) & (c) *Test procedures for compliance testing:-* ASTM F963-23 Cl. 8.3.5
	- Total element content (screening) Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	ASTM F963-23 Cl. 4.3.5.2(2)(a) & (b) & (c) *Test procedures for compliance testing for polymeric and plastic materials:-* In house method 211-AT-S0052 (by ICP-OES)

UL VS Hong Kong Limited
優力勝邦檢測服務(香港)有限公司
16/F, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 16 樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Chemical tests (cont'd):-	
Toys – substrate materials (Accessible metallic toys or toy components that are small parts, excluding children's jewellery)	- Total lead content	ASTM F963-23 Cl. 4.3.5.2 (2)(a) *Test procedures for compliance testing:-* CPSC Test Method: CPSC-CH-E1001-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Children's Metal Products (including Children's Metal Jewelry), Revision November 15, 2012 ***<Excluding the following>*** Identification and Quantification of Pb using XRF Spectrometry
	- Soluble migrated elements: Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	ASTM F963-23 Cl. 4.3.5.2(2)(b) *Test procedures for compliance testing:-* ASTM F963-23 Cl. 8.3.5.1, 8.3.5.2, 8.3.5.3 & 8.3.5.5
	- Total element content (screening) Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	ASTM F963-23 Cl. 4.3.5.2(2)(a) & (b) & (e) *Test procedures for compliance testing:-* In house method 211-AT-S0051 (by ICP-MS)
	- Extractable cadmium content	ASTM F963-23 Cl. 4.3.5.2(2)(d) *Test procedures for compliance testing:-* CPSC Test Method: CPSC-CH-E1004-11 Standard Operating Procedure for Determining Cadmium (Cd) Extractability from Children's Metal Jewelry, February 03, 2011

UL VS Hong Kong Limited
優力勝邦檢測服務(香港)有限公司
16/F, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 16 樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests (cont'd) :-	
Toys and other articles intended for use by children – paint and other similar surface-coating materials	- Total lead content	US Public Law 110-314 Consumer Product Safety Improvement Act 2008 US 16 CFR Part 1303 *Test procedures for compliance testing:-* ASTM F2853-10e1 CPSC Test method: CPSC-CH-E1003-09.1 Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings, February 25, 2011
Children's metal products	- Total lead content	US Public Law 110 -314 Consumer Product Safety Improvement Act 2008 *Test procedures for compliance testing*: CPSC Test Method: CPSC-CH-E1001-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Children's Metal Products (Including Children's Metal Jewelry), Revision November 15, 2012 ***<Excluding the following>*** Identification and Quantification of Pb using XRF Spectrometry
Children's non-metal products	- Total lead content	*Test procedures for compliance testing*: CPSC Test Method: CPSC-CH-E1002-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Non-Metal Children's Products, Revision November 15, 2012 ***<Excluding the following>*** Identification and Quantification of Pb using XRF Spectrometry

UL VS Hong Kong Limited
優力勝邦檢測服務(香港)有限公司
16/F, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 16 樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Chemical tests (cont'd) :-	
All toys and children's products - Paint and similar surface coating materials	- Total lead content	CPSC Test method: CPSC-CH-E1003-09.1 Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings, February 25, 2011
	- Total cadmium content	In House Method 211-AT-S0027 (by ICP-OES)
Children's metal products	- Total lead content	CPSC Test Method: CPSC-CH-E1001-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Children's Metal Products (Including Children's Metal Jewelry), Revision November 15, 2012 ***<Excluding the following>*** Identification and Quantification of Pb using XRF Spectrometry
Children's metal Jewelry	- Extractable cadmium content	CPSC Test Method: CPSC-CH-E1004-11 Standard Operating Procedure for Determining Cadmium (Cd) Extractability from Children's Metal Jewelry, February 03, 2011
Children's non-metal products	- Total lead content	CPSC Test Method: CPSC-CH-E1002-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Non-Metal Children's Products, Revision November 15, 2012 ***<Excluding the following>*** Identification and Quantification of Pb using XRF Spectrometry

UL VS Hong Kong Limited
優力勝邦檢測服務(香港)有限公司
16/F, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 16 樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests (cont'd) :-	
All toys	- Migration of the elements Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	AS/NZS ISO 8124.3: 2012 AS/NZS 8124.3: 2012 + A1: 2016 AS/NZS ISO 8124.3: 2003 + Amd.1: 2010 ISO 8124-3: 2010 + Amd.1:2014 MS ISO 8124-3: 2012 SNI ISO 8124-3:2010 (English version) TCVN 6238-3: 2011 (English translation published by Information Centre for Standards, Metrology and Quality, Vietnam)
Toys 玩具	- Migration of the elements Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium 特定元素的遷移 銻, 砷, 鋇, 鎘, 鉻, 鉛, 汞, 硒	GB 6675.1-2014, Cl. 5.3.3 & 5.3.4 *Test procedures for compliance testing:* GB 6675.4-2014
	- Migration of the elements Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium 特定元素的遷移 銻, 砷, 鋇, 鎘, 鉻, 鉛, 汞, 硒	GB 6675.4-2014
Pencils, coloured pencils and graphic instruments 鉛筆、彩色鉛筆和繪圖用具	- Migration of the elements Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium 特定元素的遷移 銻, 砷, 鋇, 鎘, 鉻, 鉛, 汞, 硒	Australian Customs (Prohibited Imports) Regulations 1956, Schedule 2, Item 7 JIS S 6006: 2007 Cl. 6.1 (Table 4), 6.2 (Table 6), and 8.8 GB 8771-2007

UL VS Hong Kong Limited
優力勝邦檢測服務(香港)有限公司
16/F, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 16 樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Chemical tests (cont'd) :-	
Finger paints	- Migration of the elements Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	AS 8124.7-2017 Cl. 4.4 and A.4 *Compliance test procedures for migration of elements:-* ISO 8124-3:2010
	- Migration of certain elements	BS EN 71-7: 2014 + A3: 2020 Cl. 4.4 *Compliance test procedures for migration of elements:-* BS EN 71-3: 2019 + A1: 2021
	Aluminium, Antimony, Arsenic, Barium, Boron, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Mercury, Nickel, Selenium, Strontium, Tin and Zinc	Annex E (ICP-MS)
	Chromium (VI) Chromium (III) (by calculation)	Annex F (LC-ICP-MS)
	Methyltin, Dimethyltin, Butyltin, Dibutyltin, Tributyltin, Tetrabutyltin, n-Octyl tin, Di-n-octyltin, Di-n-propyl tin, Diphenyltin, Triphenyltin	Annex G (GC-MS-MS)
	- Migration of certain elements	EN 71-7: 2014 + A3: 2020 Cl. 4.4 *Compliance test procedures for migration of elements:-* EN 71-3: 2019 + A1: 2021
	Aluminium, Antimony, Arsenic, Barium, Boron, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Mercury, Nickel, Selenium, Strontium, Tin and Zinc	Annex E (ICP-MS)
	Chromium (VI) Chromium (III) (by calculation)	Annex F (LC-ICP-MS)
	Methyltin, Dimethyltin, Butyltin, Dibutyltin, Tributyltin, Tetrabutyltin, n-Octyl tin, Di-n-octyltin, Di-n-propyl tin, Diphenyltin, Triphenyltin	Annex G (GC-MS-MS)

UL VS Hong Kong Limited
優力勝邦檢測服務(香港)有限公司
16/F, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 16 樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests (cont'd) :-	
Toys	- Migration of certain elements	BS EN 71-3: 2019 + A1: 2021 EN 71-3: 2019 + A1: 2021
Category I toy materials: Dry, brittle, powder like or pliable materials	Aluminium, Antimony, Arsenic, Barium, Boron, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Mercury, Nickel, Selenium, Strontium, Tin and Zinc	Annex E (ICP-MS)
	Chromium (VI) Chromium (III) (by calculation)	Annex F (LC-ICP-MS)
	Organic Tin: Methyl tin, Dimethyltin, Butyltin, Dibutyl tin, Tributyl tin Tetrabutyl tin, n-Octyl tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin, Triphenyl tin	Annex G (GC-MS-MS)
Category II toy materials: Liquid or sticky materials	Aluminium, Antimony, Arsenic, Barium, Boron, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Mercury, Nickel, Selenium, Strontium, Tin and Zinc	Annex E (ICP-MS)
	Chromium (VI) Chromium (III) (by calculation)	Annex F (LC-ICP-MS)
	Organic Tin: Methyl tin, Dimethyltin, Butyltin, Dibutyl tin, Tributyl tin Tetrabutyl tin, n-Octyl tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin, Triphenyl tin	Annex G (GC-MS-MS)

UL VS Hong Kong Limited
優力勝邦檢測服務(香港)有限公司
16/F, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 16 樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests (cont'd) :-	
Toys	- Migration of certain elements	BS EN 71-3: 2019 + A1: 2021 EN 71-3: 2019 + A1: 2021
Category III toy materials: Scraped-off materials	Aluminium, Antimony, Arsenic, Barium, Boron, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Mercury, Nickel, Selenium, Strontium, Tin and Zinc	Annex E (ICP-MS)
	Chromium (VI) Chromium (III) (by calculation)	Annex F (LC-ICP-MS)
	Organic Tin: Methyl tin, Dimethyltin, Butyltin, Dibutyl tin, Tributyl tin Tetrabutyl tin, n-Octyl tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin, Triphenyl tin	Annex G (GC-MS-MS)
	Chromium (for screening for Cr(VI))	Alternative method as documented in 211-AT-S0141 (ICP-MS)
Category III toy materials: Scraped-off materials ***<Excluding the following>*** Paper and paperboard	Tin (for screening for organic tin)	Alternative method as documented in 211-AT-S0141 (ICP-MS)
Category III toy materials: Scraped-off materials from tinplated or tin base material	Organic Tin: Methyl tin, Dimethyltin, Butyltin, Dibutyl tin, Tributyl tin Tetrabutyl tin, n-Octyl tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin, Triphenyl tin	Alternative method as documented in 211-AT-S0142 (GC-MS-MS)

UL VS Hong Kong Limited
優力勝邦檢測服務(香港)有限公司
16/F, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 16 樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests (cont'd) :-	
Textiles, leather, wood, paper, aqueous liquids, solid toy materials intended to leave a trace, modelling clay, balloon- making compounds and imitation tattoos with adhesive	Primary aromatic amines: - Benzidine - Aniline - 2-naphthylamine - 3,3'-dichlorobenzidine - 3,3'-dimethoxybenzidine - 3,3'-dimethylbenzidine - o-toluidine - o-anisidine - 4-chloroaniline	EN 71-9: 2005 + A1:2007 Table 2C *Sample Preparation:-* EN 71-10: 2005 Clause 8.1.2, 8.1.4, 8.2.2, 8.3.2, 8.4.2, 8.5.2, 8.6.2, 8.7.2, 8.8.2, 8.9.2 *Test procedures for compliance testing:-* EN71-10:2005 Annex A EN 71-11: 2005 Clause 5.4 TCVN 6238-9:2010 Table 2C (English translation published by Information Centre for Standards, Metrology and Quality, Vietnam) *Sample Preparation:-* TCVN 6238-10:2010 Clause 8.1.2, 8.1.4, 8.2.2, 8.3.2, 8.4.2, 8.5.2, 8.6.2, 8.7.2, 8.8.2, 8.9.2 (English translation published by Information Centre for Standards, Metrology and Quality, Vietnam) *Test procedures for compliance testing:-* TCVN 6238-10:2010 Annex A TCVN 6238-11:2010 Clause 5.4 (English translation published by Information Centre for Standards, Metrology and Quality, Vietnam)
Polymeric materials	Migration of plasticisers: - Triphenyl phosphate - Tri-o-cresyl phosphate (tri-o-toyl phosphate) - Tri-m-cresyl phosphate (tri-m-toyl phosphate) - Tri-p-cresyl phosphate (tri-p-toyl phosphate)	EN 71-9: 2005 + A1: 2007 Table 2I *Sample Preparation:* EN 71-10: 2005 Clause 6 *Test procedures for compliance testing:* EN 71-11: 2005 Clause 5.8 TCVN 6238-9:2010 Table 2I (English translation published by Information Centre for Standards, Metrology and Quality, Vietnam) *Sample Preparation:* TCVN 6238-10:2010 Clause 6 (English translation published by Information Centre for Standards, Metrology and Quality, Vietnam) *Test procedures for compliance testing:* TCVN 6238-11:2010 Clause 5.8 (English translation published by Information Centre for Standards, Metrology and Quality, Vietnam)

UL VS Hong Kong Limited
優力勝邦檢測服務(香港)有限公司
16/F, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 16 樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Chemical tests (cont'd):-	
Plastics	- Cadmium content	Regulation (EC) No. 1907/2006 on REACH Annex XVII Item No. 23 as amended by Commission Regulation (EC) No. 552/2009 and Commission Regulation (EU) No. 494/2011 *Test Procedures for Compliance testing:* EN 1122: 2001 Method B (wet decomposition)
Paints	- Cadmium content	Regulation (EC) No. 1907/2006 on REACH Annex XVII Item No. 23 as amended by Commission Regulation (EC) No. 552/2009 and Commission Regulation (EU) No. 494/2011 *Test Procedures for Compliance testing:* In House Method 211-AT-S0027 (by ICP-OES)

UL VS Hong Kong Limited
優力勝邦檢測服務(香港)有限公司
16/F, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 16 樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests (cont'd):-	
		Japan Toy Safety Standard ST2016, English version (2016.4.1), Part 3
All toys' materials		Cl. 1.1 *Test Procedures for Compliance testing*:
	- Colouring matters	Cl. 2.1
Materials which are mainly composed of polyethylene and polyvinyl chloride (excluding parts on which paint coating is applied)		Cl. 1.2 *Test Procedures for Compliance testing*:
	- Consumption of potassium permanganate	Cl. 1.2.1 & Cl. 2.2
	- Residue on evaporation	Cl. 1.2.1 & Cl. 2.3
	- Heavy metals	Cl. 1.2.1 & Cl. 2.4
	- Arsenic	Cl. 1.2.1 & Cl. 2.5
	- Cadmium (excluding materials mainly composed of polyethylene)	Cl. 1.2.1 & Cl. 2.6
Decalcomania, folded paper and rubber-made toys (excluding rubber pacifiers)		Cl. 1.3 *Test Procedures for Compliance testing*:
	- Heavy metals	Cl. 1.3.1 & Cl. 2.4
	- Arsenic	Cl. 1.3.1 & Cl. 2.5
Vinyl chloride resin coating		Cl. 1.4 *Test Procedures for Compliance testing*:
	- Consumption of potassium permanganate	Cl. 1.4.1 & Cl. 2.2
	- Residue on evaporation	Cl. 1.4.1 & Cl. 2.3
The paint coating applied to the body or the components of the toys, (including vinyl chloride resin coating; excluding the printing ink used for paper containers)		Cl. 1.5 *Test Procedures for Compliance testing*:
	- Heavy metals: 8 elements (antimony, arsenic, barium, cadmium, chromium, lead, mercury and selenium)	Cl. 1.5.1 & Cl. 2.7 (1) ①, (2) & (3)
Textile products used for toys		Cl. 1.6 *Test Procedures for Compliance testing*:
	- Free formaldehyde	Cl. 1.6 & Cl. 2.8 ***<Excluding the following>*** Confirmation test by HPLC

UL VS Hong Kong Limited
優力勝邦檢測服務(香港)有限公司
16/F, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 16 樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests (cont'd):-	
		Japan Toy Safety Standard ST2016, English version (2016.4.1), Part 3
Ink and the like used for the graphic instruments that are provided with the toys such as pencils, ball-point pens, markers, crayons, pastels, water colours, chalks, etc.	- Colouring matters - Heavy metals: 8 elements (antimony, arsenic, barium, cadmium, chromium, lead, mercury and selenium)	Cl. 1.8 *Test Procedures for Compliance testing*: Cl. 1.8.1 & Cl. 2.1 Cl. 1.8.2 & Cl. 2.7 (1) ②, (2) & (3)
Plasticized material in toys	- Bis (2-ethylhexyl) phthalate (DEHP) - Dibutyl phthalate (DBP) - Butyl benzyl phthalate (BBP) - Di-isononyl phthalate (DINP) - Di-isodecyl phthalate (DIDP) - Di-n-octyl phthalate (DNOP)	Cl. 1.9 ***<Excluding the following>*** Cl. 1.9.3 *Test Procedures for Compliance testing*: Cl. 2.10 ***<Excluding the following>*** Characterization & content determination tests by GC-FID
Rubber pacifiers	- Material test: Cadmium and Lead - Dissolution test: Phenol, Formaldehyde, Zinc, Heavy metals Residue on evaporation	Cl. 1.10 *Test Procedures for Compliance testing*: Cl. 2.11.1 Cl. 2.11.2
Metals used for toy (neither painted nor covered)	- Lead	Cl. 1.11 *Test Procedures for Compliance testing*: Cl. 2.12 & 2.7 (2) & (3)

UL VS Hong Kong Limited
優力勝邦檢測服務(香港)有限公司
16/F, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 16 樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests (cont'd):-	
		Specifications and Standards for Foods, Food Additives, etc. under the Food Sanitation Act (ABSTRACTS) 2010, JETRO April 2011, Part V "TOYS" *Test procedure for compliance testing:-* Specifications, Standards and Testing Methods for Foodstuffs, Implements, Containers and Packaging, Toys, Detergents, JETRO January 2009 (following the tentative English translation published by JETRO January 2009 and Amd. by MHLW Notification No.336, September 6, 2010)
Decals	- Heavy metals - Arsenic	Part III A-1 & Part II B-4 Part III A-1 & Part II B-7
Origami paper	- Heavy metals - Arsenic	Part III A-2 & Part III A-1 (2)a & Part II B-4 Part III A-2 & Part III A-1 (2)b & Part II B-7
Rubber pacifiers	- Materials testing: Cadmium and Lead - Eluting testing:, Phenol, Formaldehyde, Zinc, Heavy metals Evaporation of residue	Part III A-3 & Part II D-3(2)a & Part II B-9 Part III A-3 & Part II D-3(2)b & Part II B-8 Phenol Part III A-3 & Part II D-3(2)b & Part II B-8 Formaldehyde Part III A-3 & Part II D-3(2)b & Part II B-9 Part III A-3 & Part II D-3(2)b & Part II B-4 Part III A-3 & Part II D-3(2)b & Part II B-5
Coating film of toys	- Cadmium, lead and arsenic	Part III A-4 & Part II B-9
Coating film coated by using Polyvinyl chloride	- Potassium permanganate consumption - Evaporation of residue	Part III A-5 & Part II B-1 Part III A-5 & Part II B-5
Parts (excluding coating film) manufactured using materials mainly composed of polyvinyl chloride	- Potassium permanganate consumption - Heavy metals - Cadmium - Evaporation of residue - Arsenic	Part III A-6 & Part III A-5(2)a & Part II B-1 Part III A-6 & Part III A-1(2)a & Part II B-4 Part III A-6 & Part II B-9 Part III A-6 & Part III A-5(2)b & Part II B-5 Part III A-6 & Part III A-1(2)b & Part II B-7

UL VS Hong Kong Limited
優力勝邦檢測服務(香港)有限公司
16/F, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 16 樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests (cont'd):-	Specifications and Standards for Foods, Food Additives, etc. under the Food Sanitation Act (ABSTRACTS) 2010, JETRO April 2011, Part V "TOYS" & Specifications, Standards and Testing Methods for Foodstuffs, Implements, Containers and Packaging, Toys, Detergents, JETRO January 2009 (following the tentative English translation published by JETRO January 2009 and Amd. by MHLW Notification No.336, September 6, 2010)
All designated toys with parts made from plasticized materials	- Butyl benzyl phthalate (BBP) - Bis (2-ethylhexyl) phthalate (DEHP) - Dibutyl phthalate (DBP)	Part III A-7 *Test procedures for compliance testing of PVC, polyurethane and rubber:* ST2012 Part 3 Cl. 2.10 ***<Excluding the following>*** Characterization & content determination tests by GC-FID ST2016 Part 3 Cl. 2.10 ***<Excluding the following>*** Characterization & content determination tests by GC-FID *Test procedures for compliance testing of materials other than PVC, polyurethane and rubber:* CPSC Test Method: CPSC-CH-C1001-09.3 ***<Excluding the following>*** Optional Sample Pre-screen Using Infrared (IR) Spectroscopy
Parts of toys (other than those intended to come into direct contact with infant's mouth) made from synthetic resins which are mainly composed of polyvinyl chloride	- Di-isononyl phthalate (DINP)	Part III A-8 *Test procedures for compliance testing of PVC, polyurethane and rubber:* ST2012 Part 3 Cl. 2.10 ***<Excluding the following>*** Characterization & content determination tests by GC-FID ST2016 Part 3 Cl. 2.10 ***<Excluding the following>*** Characterization & content determination tests by GC-FID

UL VS Hong Kong Limited
優力勝邦檢測服務(香港)有限公司
16/F, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 16 樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Chemical tests (cont'd):-	Specifications and Standards for Foods, Food Additives, etc. under the Food Sanitation Act (ABSTRACTS) 2010, JETRO April 2011, Part V "TOYS" & Specifications, Standards and Testing Methods for Foodstuffs, Implements, Containers and Packaging, Toys, Detergents, JETRO January 2009 (following the tentative English translation published by JETRO January 2009 and Amd. by MHLW Notification No.336, September 6, 2010)
Parts made from plasticized materials that intended to come into direct contact with infant's mouth	- Di-isodecyl phthalate (DIDP) - Di-isononyl phthalate (DINP) - Di-n-octyl phthalate (DNOP)	Part III A-9 *Test procedures for compliance testing of PVC, polyurethane and rubber:* ST2012 Part 3 Cl. 2.10 ***<Excluding the following>*** Characterization & content determination tests by GC-FID ST2016 Part 3 Cl. 2.10 ***<Excluding the following>*** Characterization & content determination tests by GC-FID *Test procedures for compliance testing of materials other than PVC, polyurethane and rubber:* CPSC Test Method: CPSC-CH-C1001-09.3 ***<Excluding the following>*** Optional Sample Pre-screen Using Infrared (IR) Spectroscopy

UL VS Hong Kong Limited
優力勝邦檢測服務(香港)有限公司
16/F, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 16 樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests (cont'd):-	Specifications and Standards for Foods, Food Additives, etc. under the Food Sanitation Act (ABSTRACTS) 2010, JETRO April 2011, Part V "TOYS" *Test procedure for compliance testing:-* Specifications, Standards and Testing Methods for Foodstuffs, Implements, Containers and Packaging, Toys, Detergents, JETRO January 2009 (following the tentative English translation published by JETRO January 2009 and Amd. by MHLW Notification No.336, September 6, 2010) (cont'd)
Parts (excluding coating film) manufactured using materials mainly composed of polyethylene	- Potassium permanganate consumption - Heavy metals - Evaporation of residue - Arsenic	Part III A-10 & Part III A-5(2)a & Part II B-1 Part III A-10 & Part III A-1(2)a & Part II B-4 Part III A-10 & Part III A-5(2)b & Part II B-5 Part III A-10 & Part III A-1(2)b & Part II B-7
Metal jewelry toys that might be swallowed by infants and small children	- Lead	Part III A-11 & Part II B-9
Synthetic resin-based colouring agents used in the manufacture of toys	- Colouring agent	Part III B

UL VS Hong Kong Limited
優力勝邦檢測服務(香港)有限公司
16/F, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 16 樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Electrical tests :-	
Battery operated toys	- Battery operated toy safety tests	PNS/BHDT ISO 8124-1: 2008, Annex A ASTM F963-23 Section 4.25 < ***Excluding the following*** > Section 4.25.9
Electric toys supplied at extra-low voltage	- Compliance inspection and safety tests	IEC 62115: 2017 BS EN IEC 62115:2020+A11:2020 EN IEC 62115:2020+A11:2020 ***<Excluding the following>*** for the above three standards Cl. 9.1 (test to Annex D), 11 (IP test to IEC 60529), 12.1, 13.8, 18.2.2 (burning tests to IEC 60695-11-10 and ISO 9772), 19 (radiation tests), Annex C, D, E, I and J
	- Compliance inspection and safety tests	MS 62115: 2008 < ***Excluding the following*** > Cl.11.1 (IP test to IEC 60529), 19.2.1 (burning tests to IEC 60695-11-10 and ISO 9772), Annex C
	- Compliance inspection and safety tests	SANS 62115: 2005 SNI IEC 62115:2011 (English version) < ***Excluding the following*** > for the above two standards Cl.11.1 (IP test to IEC 60529), 19.2.1 (burning tests to IEC 60695-11-10 and ISO 9772), 20 (radiation tests), Annex C and E

UL VS Hong Kong Limited
優力勝邦檢測服務(香港)有限公司
16/F, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 16 樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Electrical tests :- 電性能測試	
Electric toys supplied at extra-low voltage 電玩具	- Compliance inspection and safety tests	GB 6675.1-2014 Cl. 5.4 and GB 19865-2005 < ***Excluding the following***> Cl. 11.1 (IP test to GB 4208), 19.2.1 (burning tests to GB/T 5169.16 and ISO 9772), 20 (radiation tests), Annex C and E
	- 安全測試	GB 6675.1-2014 Cl. 5.4 及 GB 19865-2005 <***不包括***> Cl. 11.1 (根據 GB 4208 的耐水測試) 19.2.1 (按 GB/T 5169.16 及 ISO 9772 進行的耐燃試驗), 20 (輻射測試) 附錄 C 及 E

UL VS Hong Kong Limited
優力勝邦檢測服務(香港)有限公司
16/F, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 16 樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Flammability tests :-	
Toys	- Safety requirements and test methods	16 CFR Parts 1500.44 and 1610 ASTM F963-23 Section 4.2
Toys	- Safety requirements and test methods	ISO 8124-2: 2014 ISO 8124-2: 2023 AS/NZS 8124.2: 2023 ***<Excluding the following>*** for the above three standards Tests for flammable gases, extremely flammable liquids, highly flammable liquids and flammable gels MS ISO 8124-2: 2008 PNS/BHDT ISO 8124-2: 2008 SANS 8124-2: 2008 SNI ISO 8124-2: 2010 (English version) TCVN 6238-2: 2008 (English translation published by Information Centre for Standards, Metrology and Quality, Vietnam) ***<Excluding the following>*** for the above five standards Test for flammable gases, highly flammable solids, highly flammable liquids, flammable liquids and flammable gels
Toys	- Safety requirements and test methods	Canada Toys Regulations (SOR/2011-17) amended up to 11 January 2019 Sections 21, 32, 33 and 34
Toys	- Safety requirements and test methods	EN 71-2: 2020 ***<Excluding the following>*** Test for flammable gases, extremely flammable Liquids, highly flammable liquids and flammable gel

UL VS Hong Kong Limited
優力勝邦檢測服務(香港)有限公司
16/F, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 16 樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Flammability tests :- 燃燒性能測試	
Toys	- Safety requirements and test methods	Japan Toy Safety Standard ST 2016 First Edition (2016.04.01) Part 2 (based on the English version provided by JTA in April 2016) ***<Excluding the following>*** Tests for flammable gases, extremely flammable liquids, highly flammable liquids and flammable gels
Toys 玩具	- Safety requirements and test methods	CNS 4797: 2015 Cl.4 a) and CNS 4797-1: 2014 ***<Excluding the following>*** Test for flammable gases, highly flammable solids, highly flammable liquids, flammable liquids and flammable gels
	- 安全規定及測試方法	CNS 4797: 2015 Cl.4 a) 及 CNS 4797-1: 2014 ***<不包含>*** 易燃氣體、高度易燃固體、 高度易燃液體、易燃液體及易燃膠體
Toys 玩具	- Safety requirements and test methods	GB 6675.1-2014 Cl. 5.2.1 and GB 6675.3-2014 ***<Excluding the following>*** Test for flammable gases, highly flammable solids, highly flammable liquids, flammable liquids and flammable gels
	- 安全規定及測試方法	GB 6675.1-2014 Cl. 5.2.1 及 GB 6675.3-2014 ***<不包含>*** 易燃氣體、高度易燃固體、 高度易燃液體、易燃液體及易燃凝膠體

UL VS Hong Kong Limited
優力勝邦檢測服務(香港)有限公司
16/F, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 16 樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Flammability tests :-	
Soft infant and toddler carrier	Flammability test	ASTM F2236-16a Cl. 5.7 16 CFR Part 1226 in conjunction with ASTM F2236-14 Cl. 5.7 ASTM F2236-24 Cl. 5.7 16 CFR Part 1226 in conjunction with ASTM F2236-24 Cl. 5.7
Toy chests	Flammability test	16 CFR 1500.3(c)(6) and 16 CFR 1500.44

UL VS Hong Kong Limited
優力勝邦檢測服務(香港)有限公司
16/F, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 16 樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Physical and mechanical tests :-	
Toys	- Safety requirements and test methods	ISO 8124-1: 2018 < ***Excluding the following*** > Cl. 4.8.2 ISO 8124-1: 2022 < ***Excluding the following*** > Cl. 4.8.2
Toys	- Safety requirements and test methods	AS/NZS ISO 8124.1: 2023 < ***Excluding the following*** > Cl. 4.8.2 Commonwealth of Australia's Competition and Consumer Act 2010 - Consumer Protection Notice No. 5 of 2012 Imposition of Permanent Ban on Small, High Powered Magnets *Test procedures for compliance testing:* AS/NZS ISO 8124.1:2010, cl. 5.2 and 5.31
Toys	Safety requirements and test methods	BS EN71-1: 2014 + A1: 2018 EN 71-1: 2014 + A1: 2018 **< *Excluding the following* >** For the above two standards Cl. 4.18 (test to EN 15649-3), 4.20.2.5 and 4.20.2.12
	Graphical symbol for age warning labelling	EN 71-6: 1994

UL VS Hong Kong Limited
優力勝邦檢測服務(香港)有限公司
16/F, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 16 樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Physical and mechanical tests :- 機械及物理性能測試	
Toys 玩具	- Safety requirements and test methods	CNS 4797: 2015 Cl. 4 c), 6, 7 and CNS 4797-3: 2015
	- 安全規定及測試方法	CNS 4797: 2015 Cl. 4 c), 6, 7 及 CNS 4797-3: 2015
Toys 玩具	- Safety requirements and test methods	GB 6675.1-2014 Cl. 5.1.1 to 5.1.8, 5.1.9a), 5.1.10, 5.1.11, 5.7 and GB 6675.2-2014
	- 安全規定及測試方法	GB 6675.1-2014 Cl. 5.1.1 to 5.1.8, 5.1.9a), 5.1.10, 5.1.11, 5.7 及 GB 6675.2-2014
	- Instructions for use of toys	GB 5296.5-2006
	- 玩具使用說明	GB 5296.5-2006
	- Graphical symbol for age warning labeling	GB/T 26710-2011
	- 年齡警告圖標	GB/T 26710-2011
	- Test method to determine the kinetic energy of projectile toys	GB/T 26175-2010
	- 彈射玩具動能測試方法	GB/T 26175-2010

UL VS Hong Kong Limited
優力勝邦檢測服務(香港)有限公司
16/F, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 16 樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Physical and mechanical tests :-	
Toys	- Safety requirements and test methods	Japan Toy Safety Standard ST 2016 First Edition (2016.04.01) Part 1 (based on the English version provided by JTA in April 2016) ***<Excluding the following>*** Cl. 4.8.2, 4.25, 7
Toys	- Safety requirements and test methods	MS ISO 8124-1: 2011
	- Graphical symbol for age warning labeling	MS 1774: Part 6: 1998
Toys	- Safety requirements and test methods	PNS/BHDT ISO 8124-1: 2008 ***< Excluding the following >*** Annex F (for toys with earphones or headphones)
Toys	- Safety requirements and test methods	SANS 8124-1: 2009
Toys	- Safety requirements and test methods	SNI ISO 8124-1: 2010 (English version)
Toys	- Safety requirements and test methods	TCVN 6238-1: 2011 (English translation published by Information Centre for Standards, Metrology and Quality, Vietnam)
Toys and children's products		Hong Kong Ordinance Ch. 424C, Toys and Children's Products Safety Regulation
	- Identification marking for toys	Section 5
	- Bilingual warning or caution for toys	Section 6
	- Identification marking for children's products	Section 10
	- Bilingual warning or caution for children's products	Section 11

UL VS Hong Kong Limited
優力勝邦檢測服務(香港)有限公司
16/F, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 16 樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Physical and mechanical tests :-	
Toys	- Safety requirements	ASTM F963-23 Section 4.1, 4.3.7, 4.5 to 4.24, 4.26 to 4.28, 4.30 to 4.41 < ***Excluding the following*** > 4.1(examination of level of hazardous substances in reprocessed materials to 4.3.1), 4.6.2, 4.8.1, 4.15 (multiple seating or standing area), 4.20.1
	- Labelling requirements	Section 5
	- Instructional literature	Section 6
	- Producer's markings	Section 7
	- Test methods	Section 8
Toys and children's products	- Safety requirements and test methods	Federal Hazardous Substances Act Regulations 16 CFR 1500.48 16 CFR 1500.49 16 CFR 1500.50 16 CFR 1500.51 16 CFR 1500.52 16 CFR 1500.53 16 CFR 1501 16 CFR 1510
Balls intended for use by children under 3 years of age	- Method for identifying mechanical hazards because of small balls	16 CFR 1500.18(a)(17)
Dive sticks	- Method for identifying mechanical hazards because of small balls	16 CFR 1500.18(a)(19) in conjunction with test methods specified in 16 CFR 1500.86(a)(7) or 16 CFR 1500.86(a)(8)
Marbles, small balls, balloons and other small parts intended for use by children above 3 years of age	- Labelling requirements	16 CFR 1500.19
Pacifiers	- Safety requirements and test methods	16 CFR 1511

UL VS Hong Kong Limited
優力勝邦檢測服務(香港)有限公司
16/F, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 16 樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Physical and mechanical tests :-	
Toys	- Safety requirements and test methods	Canada Toys Regulations (SOR/2011-17) amended up to 11 January 2019 Sections 3, 4, 7 to 19, 28, 30 to 31, 37, 40 to 44 Health Canada Product Safety Reference Manual Book 5 – Laboratory Policies and Procedures Part B: Test Method Section Method M00.1 (2019) Method M00.2 (2020) Method M00.3 (2021) Method M00.4 (2017) Method M01.1 (2019) Method M03 (2016) Method M04 (2017) Method M05 (2021) Method M18 (2021) (Note: The above test methods should be used in conjunction with the relevant sections of Canada Toys Regulations (SOR/2011-17))
	- Safety tests	Health Canada – Information for Manufacturers, Importers, Distributors and Retailers of Products Containing Small, Powerful Magnets *Test procedures for compliance testing:* ASTM F963-11, cl. 8.24.1 to 8.24.3

UL VS Hong Kong Limited
優力勝邦檢測服務(香港)有限公司
16/F, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 16 樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Physical and mechanical tests :- 機械及物理性能測試	
Children's jewellery		ASTM F2923-20
	- Mechanical requirements	Cl. 13
	- Test Methods	Cl. 14
Cutlery and feeding utensils	Safety requirements and test methods	EN 14372: 2004 < ***Excluding the following*** > Cl. 5.4 and 6.3, Annex A and Annex B
Soft infant and toddler carrier	- Safety and performance tests	ASTM F2236-16a
		16 CFR Part 1226 in conjunction with ASTM F2236-14
		ASTM F2236-24
		16 CFR Part 1226 in conjunction with ASTM F2236-24
Toy chests	- Performance requirements and test methods	ASTM F834-84 (2008) < ***Excluding the following*** > Cl. 6.1
Writing and marking instruments 書寫用具	Safety tests for safety caps 筆帽安全測試	ISO 11540: 2014
		BS 7272-1: 2008
		GB 21027-2007 Cl. 3.7, 3.8, 4.6, 4.7 and 6 and Annex E 3.7, 3.8, 4.6, 4.7 , 6 及附錄 E
		JIS S 6060: 1996
	Safety tests for end closures	BS 7272-2: 2008 + A1:2014

Green Island Cement Company Limited
青洲英坭有限公司

ADDRESS : No. 7, Lung Yiu Street, Tap Shek Kok, Tuen Mun, New Territories, Hong Kong
地址 香港新界屯門踏石角龍耀街七號

ENQUIRY : Mr Franco NG Lap-man, Laboratory Superintendent
查詢 伍立民先生，化驗室監督

TELEPHONE : 2440 5111
電話

FAX : 2441 3421
傳真

E-MAIL : francon@gich.com.hk
電郵

CLIENTELE : Public
服務對象 公眾

Green Island Cement Company Limited
青洲英坭有限公司

ADDRESS **地址**	:	No. 7, Lung Yiu Street, Tap Shek Kok, Tuen Mun, New Territories, Hong Kong 香港新界屯門踏石角龍耀街七號
ACCREDITED TEST CATEGORY **認可測試類別**	:	Construction Materials 建築材料 Environmental Testing 環境測試

Green Island Cement Company Limited
青洲英坭有限公司
No. 7, Lung Yiu Street, Tap Shek Kok, Tuen Mun, New Territories, Hong Kong
香港新界屯門踏石角龍耀街七號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Cement	Compressive strength of broken mortar prisms in the force range 2 kN – 250 kN	BS EN 196-1: 2016
	Density	ASTM C188-89 BS EN 196-6: 2010 Annex NC
	Fineness	BS EN 196-6: 2018
	Flexural strength of mortar prisms	BS EN 196-1: 2016
	Setting times	BS EN 196-3: 2016
	Soundness	BS EN 196-3: 2016
	Standard consistence	BS EN 196-3: 2016
Cement/Clinker (Chemical analysis)	Aluminium oxide content (Al_2O_3)	BS EN 196-2: 2013 Cl. 4.5.11
	Iron (III) oxide content (Fe_2O_3)	BS EN 196-2: 2013 Cl. 4.5.10
	Calcium oxide content (CaO)	BS EN 196-2: 2013 Cl. 4.5.14 (alternative method)
	Magnesium oxide content (MgO)	BS EN 196-2: 2013 Cl. 4.5.15 (alternative method)
	Manganese content (Mn)	BS EN 196-2: 1995 Cl. 12 BS EN 196-2: 2013 Cl. 4.4.6
	Manganese content (as MnO)	BS EN 196-2: 1995 Cl. 12 BS EN 196-2: 2013 Cl. 4.4.6
	Manganese trioxide content (Mn_2O_3)	BS EN 196-2 1995 Cl. 12 BS EN 196-2: 2013 Cl. 4.4.6
	Total silica content (SiO_2)	BS EN 196-2: 2013 Cl. 4.5.9
	Impure silica content	BS EN 196-2: 2013 Cl. 4.5.2 and Cl. 4.5.4 (alternative method)
	Pure silica content	BS EN 196-2: 2013 Cl. 4.5.6
	Soluble silica content	BS EN 196-2: 2013 Cl. 4.5.7 and Cl. 4.5.8
	Alkali content	BS EN 196-2: 2013 Cl. 4.5.20 (alternative method)

Green Island Cement Company Limited
青洲英坭有限公司
No. 7, Lung Yiu Street, Tap Shek Kok, Tuen Mun, New Territories, Hong Kong
香港新界屯門踏石角龍耀街七號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Cement/Clinker (Chemical analysis) (cont'd)	Residue insoluble in hydrochloric acid and sodium carbonate	BS EN 196-2: 2013 Cl. 4.4.3
	Residue insoluble in hydrochloric acid and potassium hydroxide	BS EN 196-2: 2013 Cl. 4.4.4
	Loss-on-ignition (L.O.I.)	BS EN 196-2: 2013 Cl. 4.4.1
	Chloride content	BS EN 196-2: 2013 Cl. 4.5.16
	Sulfate content (as SO_3)	BS EN 196-2: 2013 Cl. 4.4.2
	Free lime content	BS 4550: Part 2: 1970 Cl. 14.1.5
	Total sulphur content (as SO_3)	In-house method LAB-T-051 (infrared)
Gypsum (Chemical analysis)	Free water content	ASTM C471-87 Cl. 6
	Combined water content	ASTM C471-87 Cl. 7
	Silicon dioxide and insoluble matter	ASTM C471-87 Cl. 9
	Iron oxide and aluminium oxide contents	ASTM C471-87 Cl. 10
	Calcium oxide content	ASTM C471-87 Cl. 11 (alternative method)
	Magnesium oxide content	ASTM C471-87 Cl. 12
	Sulfur trioxide content	ASTM C471-87 Cl. 13
	Chloride content (as NaCl)	ASTM C471-87 Cl. 14

Green Island Cement Company Limited
青洲英坭有限公司
No. 7, Lung Yiu Street, Tap Shek Kok, Tuen Mun, New Territories, Hong Kong
香港新界屯門踏石角龍耀街七號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Ground Granualated Blastfurnace Slag (GGBS)	Activity index	BS EN 196-1: 2016 in conjunction with the following specification: BS EN 15167-1: 2006 Cl. 5.3.2.3
	Density	BS EN 196-6: 2010 Annex NC in conjunction with the following specification: BS EN 15167-1: 2006 Cl. 5.5 g
	Fineness	BS EN 196-6: 2018 (by Blaine Method) in conjunction with the following specification: BS EN 15167-1: 2006 Cl. 5.3.1
	Initial setting time	BS EN 196-3: 2016 in conjunction with the following specification: BS EN 15167-1: 2006 Cl. 5.3.2.2
Ground Granulated Blastfurnace Slag (GGBS) (Chemical analysis)	Calcium oxide content	BS EN 196-2: 2013 Cl. 4.5.12 (reference Method)
	Magnesium oxide content	BS EN 15167-1: 2006 (Amd. 16763) Cl. 5.2 & BS EN 196-2: 2013 Cl. 4.5.13 (reference Method)
	Chloride content	BS EN 15167-1: 2006 (Amd. 16763) Cl. 5.2 & BS EN 196-2: 2013 Cl. 4.5.16
	Sulfate content (as SO_3)	BS EN 15167-1: 2006 (Amd. 16763) Cl. 5.2 & BS EN 196-2: 2013 Cl. 4.4.2
	Sulfide content	BS EN 15167-1: 2006 (Amd. 16763) Cl. 5.2 & BS EN 196-2: 2013 Cl. 4.4.5
	Loss-on-ignition (L.O.I.)	BS EN 15167-1: 2006 (Amd. 16763) Cl. 5.2 & BS EN 196-2: 2013 Cl. 4.4.1
	Moisture content	BS EN 15167-1: 2006 (Amd. 16763) Cl. 5.2 & BS EN 15167-1: 2006 (Amd. 16763) Annex A

Green Island Cement Company Limited
青洲英坭有限公司
No. 7, Lung Yiu Street, Tap Shek Kok, Tuen Mun, New Territories, Hong Kong
香港新界屯門踏石角龍耀街七號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Pulverized fuel ash (PFA)	Activity index	BS EN 196-1: 2016 in conjunction with the following specification: BS EN 450-1: 2005 + A1: 2007 Cl. 5.3.2
	Fineness	BS 3892: Part 1: 1997 Annex D BS EN 451-2: 1995 in conjunction with the following specification: BS EN 450-1: 2005 + A1: 2007 Cl. 5.3.1
	Initial setting time	BS EN 196-3: 2016 in conjunction with the following specification: BS 3892: Part 1: 1997 Cl. 10 BS EN 450-1: 2005 + A1: 2007 Cl. 5.3.5
	Particle density	BS EN 196-6: 1992 Annex NC BS EN 196-6: 2010 Annex NC in conjunction with the following specification: BS EN 450-1: 2005 + A1: 2007 Cl. 5.3.4
	Soundness	BS EN 196-3: 2016 in conjunction with the following specification: BS 3892: Part 1: 1997 Cl. 11 BS EN 450-1: 2005 + A1: 2007 Cl. 5.3.3
	Strength factor	BS 3892: Part 1: 1997 Annex F
	Water requirement	BS 3892: Part 1: 1997 Annex E BS EN 450-1: 2005 + A1: 2007 Annex B in conjunction with the following specification: BS EN 450-1: 2005 + A1: 2007 Cl. 5.3.6

Green Island Cement Company Limited
青洲英坭有限公司
No. 7, Lung Yiu Street, Tap Shek Kok, Tuen Mun, New Territories, Hong Kong
香港新界屯門踏石角龍耀街七號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Pulverized fuel ash (Chemical analysis)	Sulphuric anhydride content (as SO_3)	BS 3892: Part 1: 1997 Cl. 12.1 & BS EN 196-2: 1995 Cl. 8 BS EN 450-1: 2005+A1: 2007 Cl. 5.2.4 & BS EN 196-2: 2013 Cl. 4.4.2
	Calcium oxide content	BS 3892: Part 1: 1997 Cl. 12.4 & BS EN 196-2: 1995 Cl. 13.14 (alternative method)
	Total calcium oxide content (for the specification of reactive CaO content)	BS EN 450-1: 2005+A1: 2007 Cl. 5.2.6 & BS EN 196-2: 1995 Cl. 13.14 (alternative method) in conjunction with modifications specified in BS EN 450-1: 2005+A1: 2007 Cl. 5.2.1
	Free calcium oxide content	BS EN 450-1: 2005+A1: 2007 Cl. 5.2.5 & BS EN 451-1: 2017
	Chloride content	BS 3892: Part 1: 1997 Cl. 12.3 & BS EN 196-21: 1992 Cl. 4 BS EN 450-1: 2005+A1: 2007 Cl. 5.2.3 & BS EN 196-2: 2013 Cl. 4.5.16
	Loss-on-ignition (L.O.I.)	BS 3892: Part 1: 1997 Cl. 12.2 & BS EN 196-2: 1995 Cl. 7 (using 1h ignition time) BS EN 450-1: 2005+A1: 2007 Cl. 5.2.2 & BS EN 196-2: 2013 Cl. 4.4.1 (using 1h ignition time)
	Moisture content	BS 3892: Part 1: 1997 Cl. 5 & BS 3892: Part 1: 1997 Annex C
	Total alkali content	In-house method LAB-T-065 (AAS)

Green Island Cement Company Limited
青洲英坭有限公司
No. 7, Lung Yiu Street, Tap Shek Kok, Tuen Mun, New Territories, Hong Kong
香港新界屯門踏石角龍耀街七號

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Wastewater	Physical Examination:-	
	pH value	APHA 22e, 4500-H^+B
	Total suspended solids dried at 103-105ºC	APHA 22e, 2540 D
	Organic pollutants:-	
	Chemical Oxygen Demand (COD)	APHA 22e, 5220 D (Closed reflux)

Hong Kong Productivity Council – Green Living Laboratory
香港生產力促進局 - 綠色生活化驗室

ADDRESS : 4/F, HKPC Building, 78 Tat Chee Avenue, Yau Yat Chuen, Kowloon, Hong Kong
地址 香港九龍達之路七十八號生產力大樓四樓

ENQUIRY : Dr ZHAO Wei, Head, Bio-Life Tech Innovation and Testing
查詢 趙威博士，主管，生命科技創新及測試

TELEPHONE : 2788 5843
電話

FAX : 2788 5608
傳真

E-MAIL : weizhao@hkpc.org
電郵

WEBSITE ADDRESS : www.hkpc.org
網址

CLIENTELE : Public
服務對象 公眾

Hong Kong Productivity Council – Green Living Laboratory
香港生產力促進局 - 綠色生活化驗室

ADDRESS **地址**	:	4/F, HKPC Building, 78 Tat Chee Avenue, Yau Yat Chuen, Kowloon, Hong Kong 香港九龍達之路七十八號生產力大樓四樓
ACCREDITED TEST CATEGORY **認可測試類別**	:	Chinese Medicine 中藥 Environmental Testing 環境測試 Food 食品

Hong Kong Productivity Council – Green Living Laboratory
香港生產力促進局 - 綠色生活化驗室
4/F, HKPC Building, 78 Tat Chee Avenue, Yau Yat Chuen, Kowloon, Hong Kong
香港九龍達之路七十八號生產力大樓四樓

Chinese Medicine 中藥		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Proprietary Chinese Medicine & Chinese Herbal Medicine	, Toxic elements:- Arsenic, Cadmium, Mercury, Lead	 In-house method TCM-METAL-1 (microwave digestion/ICP-MS)
	Pesticide residues:- alpha-BHC beta-BHC delta-BHC Lindane Aldrin Dieldrin Endrin cis-Chlordane Trans-Chlordane Oxychlordane Heptachlor Heptachlor epoxide Hexachlorobenzene Methyl pentachlorophenyl sulphide Pentachloroaniline Quintozene 4,4'- DDD 4,4'- DDE 2,4'- DDT 4,4'- DDT	In-house method TCM-OCP-1 (GC-ECD and GC-MSD (2,4'-DDT only))

Hong Kong Productivity Council – Green Living Laboratory
香港生產力促進局 - 綠色生活化驗室
4/F, HKPC Building, 78 Tat Chee Avenue, Yau Yat Chuen, Kowloon, Hong Kong
香港九龍達之路七十八號生產力大樓四樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Drinking water	Non-metallic constituents :-	
	- Chlorine (Free residual)	In House Method WTM-CL2-3 (DPD colorimetric method)
Water and Wastewater	Physical Examination :-	
	Conductivity	APHA 21e 2510 B
	Colour	APHA 20e 2120 B
	pH Value	APHA 21e 4500-H^+ B (Glass electrode)
	Hardness (as $CaCO_3$)	APHA 21e 2340 C
	Total Dissolved Solid dried at 180℃	APHA 17e 2540 C
	Volatile Suspended Solids ignited at 550℃	APHA 17e 2540 E
	Total Suspended Solids dried at 103º-105℃	APHA 17e 2540 D
	Dissolved Oxygen	BS 6068: Section 2.15: 1986
	Total solids dried at 103º-105℃	APHA 18e 2540 B
	Turbidity	APHA 18e 2130 B
	Alkalinity (as $CaCO_3$)	APHA 21e 2320 B
	Trace Metals :-	
	Acid digestion procedure: - Aluminum, Antimony, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Gold, Iron, Lead, Magnesium, Manganese, Molybdenum, Nickel, Potassium, Silver, Sodium, Thallium, Tin, Vanadium and Zinc	APHA 18e 3030 A, 3030 E & 3030 F.3b
	- Arsenic, Selenium, Mercury	In-house method WTM-ICPMS-1 (nitric acid / hydrochloric acid and nitric acid)
	- Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Gold, Iron, Lead, Magnesium, Manganese, Mercury, , Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium and Zinc	In-house method WTM-ICPMS-1 (ICP-MS)

Hong Kong Productivity Council – Green Living Laboratory
香港生產力促進局 - 綠色生活化驗室
4/F, HKPC Building, 78 Tat Chee Avenue, Yau Yat Chuen, Kowloon, Hong Kong
香港九龍達之路七十八號生產力大樓四樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Water and Wastewater (cont'd)	Non-metallic constituents :-	
	- Total residual chlorine	APHA 21e 4500-Cl B
	- Chloride	In House Method WTM-IC-1 (Ion chromatography)
	- Sulphate	In House Method WTM-IC-1 (Ion chromatography)
	- Nitrogen (Ammonia)	APHA 17e 4500-NH_3 B & E
	- Nitrogen (Kjeldahl)	APHA 22e 4500-N_{org} B & 4500-NH_3 C
	- Total Cyanide	In House Method WTM-CN-3 (FIA)
	- Nitrogen (Nitrite)	APHA 21e 4500-NO_2^-B
	- Nitrogen (Nitrate)	In House Method WTM-IC-1 (Ion chromatography)
	- Total Reactive Phosphorus	APHA 21e 4500-P E
	- Fluoride	APHA 21e 4500-F^- C
	- Total Phosphorus	APHA 21e 4500-P B.5 & E
	- Nitrogen (Ammonia)	In-house Method WTM-NH_3-4 (FIA)
	- Nitrogen (Nitrite)	In-house Method WTM-NO_2-2 (FIA)
	- Nitrogen (Nitrate)	In-house Method WTM-NO_3-4 (FIA)
	- Oxidized Nitrogen	In-house Method WTM-NO_3-4 (FIA)
	- Total Nitrogen	In-house Method WTM-TN-3 (FIA)
	- Sulphide (in aqueous absorbing solution for air sampling)	APHA 21e 4500-S^{2-} F

Hong Kong Productivity Council – Green Living Laboratory
香港生產力促進局 - 綠色生活化驗室
4/F, HKPC Building, 78 Tat Chee Avenue, Yau Yat Chuen, Kowloon, Hong Kong
香港九龍達之路七十八號生產力大樓四樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Water and Wastewater (cont'd)	Organic Pollutants :-	
	- Oil and grease	APHA 20e 5520 B
	- Biochemical Oxygen Demand	BS 6068 : Section 2.14 : 1990
	- Chemical Oxygen Demand	APHA 21e 5220 B APHA 18e 5220 D ASTM D 1252-88 B 1992 (Low range)
	- Anionic surfactants as MBAS	In House Method WTM-MBAS-1 (Colorimetric)
	- Non-ionic surfactants	In House Method WTM-NIS-1 (Colorimetric)
	- Total organic carbon	ISO 8245: 1987 (E)
	- Volatile Organic Compounds (VOCs) Benzene; bromodichloromethane; bromoform; chloroform; dibromochloromethane; dichloromethane; 1,2-dichlorobenzene; 1,3-dichlorobenzene; 1,4-dichlorobenzene; ethyl benzene; styrene; tetrachloroethylene; toluene; trichloroethylene; m&p-xylene; o-xylene	In House Method WTM-VOC-2 (GC-MSD)
Saline Water	Physical examination :-	
	- Total Suspended Solids dried at 103-105℃	APHA 22e 2540D

Hong Kong Productivity Council – Green Living Laboratory
香港生產力促進局 - 綠色生活化驗室
4/F, HKPC Building, 78 Tat Chee Avenue, Yau Yat Chuen, Kowloon, Hong Kong
香港九龍達之路七十八號生產力大樓四樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Sediment and Sludge	Physical examination:	
	Total solids dried at 103-105ºC	In House Method WTM-TS-4 (Gravimetric)
Sediment	Trace Metals : (Acid Leachable)	
	- Antimony, Arsenic, Barium, Cadmium, Chromium, Cobalt, Copper, Lead, Mercury, Manganese, Molybdenum, Nickel, Tin, Zinc	In House Method Sediment-Metal-3 (ICP-MS)
Soil and Sediment	Organic Pollutants :-	
	Polycyclic Aromatic Hydrocarbons: Naphthalene; Acenaphthene; Acenaphthylene; Fluorene; Phenanthrene; Anthracene; Fluoranthene; Pyrene; Benzo(a)anthracene; Chrysene; Benzo(b)fluoranthene; Benzo(k)fluoranthene; Benzo(a)pyrene; Indo(1,2,3-cd)pyrene; Dibenz(a,h)anthracene; Benzo(ghi)perylene	In House Method Sediment-PAH-1 (GC-MSD)
	Polychlorinated biphenyl congeners 2,4'-Dichlorobiphenyl (8) 2,2'5 - Trichlorobiphenyl (18) 2,4,4' - Trichlorobiphenyl (28) 2,2',3,5' - Tetrachlorobiphenyl (44) 2,2', 5,5' - Tetrachlorobiphenyl (52) 2,3',4,4'-Tetrachlorobiphenly (66) 3,3',4,4'-Tetrachlorobiphenly (77) 2,2'4,5,5' - Pentachlorobiphenyl (101) 2,3,3'4,4' - Pentachlorobiphenyl (105) 2,3'4,4',5 - Pentachlorobiphenyl (118) 3,3',4,4',5-Pentachlorophenyl (126) 2,2',3,3',4,4' - Hexachlorobiphenyl (128) 2,2',3,4,4',5' - Hexachlorobiphenyl (138) 2,2',4,4',5,5' - Hexachlorobiphenyl (153) 3,3',4,4',5,5'-Hexachlorobiphenyl (169) 2,2',3,3',4,4'5 - Heptachlorobiphenyl (170) 2,2',3,4,4',5,5' - Heptachlorobiphenyl (180) 2,2',3,4',5,5',6-Heptachlorobiphenyl (187) 2,2',3,3',4,4',5,6-Octachlorobiphenyl (195) 2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (206)	In House Method WTM-PCB-1 (GC-ECD)

Hong Kong Productivity Council – Green Living Laboratory
香港生產力促進局 - 綠色生活化驗室
4/F, HKPC Building, 78 Tat Chee Avenue, Yau Yat Chuen, Kowloon, Hong Kong
香港九龍達之路七十八號生產力大樓四樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Water and Wastewater	Microbiological tests:-	
	- E. coli	DoE (1983) The Bacteriological Examination of Drinking Water Supplies, 1982 Membrane Filtration Procedure: Section 7.8 and 7.9.4.2 Bacterial Confirmation: in-situ urease test
	- Total Coliform	DoE (1983) The Bacteriological Examination of Drinking Water Supplies, 1982 Membrane Filtration Procedure: Section 7.8 and7.9.4.1 Bacterial Confirmation: 7.9.4.3
Water, Wastewater, and Cooling Tower Water	- Heterotrophic Plate Count (35ºC)	APHA 24e 9215 A&B
	- Legionellae including *Legionella pneumophila*	AS/NZS 3896: 2008
Cooling Tower Water	- Legionellae including *Legionella pneumophila*	AS 3896: 2017
Drinking Water	- Legionellae including *Legionella pneumophila*	ISO 11731-2: 2004

Hong Kong Productivity Council – Green Living Laboratory
香港生產力促進局 - 綠色生活化驗室
4/F, HKPC Building, 78 Tat Chee Avenue, Yau Yat Chuen, Kowloon, Hong Kong
香港九龍達之路七十八號生產力大樓四樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
General foodstuff	Trace metals:- - Antimony, Arsenic, Cadmium, Chromium, Lead, Mercury, Tin	In House Method FD-METAL-1 (ICP-MS)

The Hong Kong Jockey Club - Racing Laboratory
香港賽馬會 - 賽事化驗所

ADDRESS : Shatin Racecourse, New Territories, Hong Kong
地址 香港新界沙田馬場

ENQUIRY : Dr WONG, Jenny Ka Yan, Racing Chemist
查詢 王嘉欣博士，賽事化驗師

TELEPHONE : 2966 6674
電話

FAX : 2601 6564
傳真

E-MAIL : jenny.ky.wong@hkjc.org.hk
電郵

CLIENTELE : In-house laboratory, normally not available for public testing
服務對象 內部實驗所，通常只提供內部服務

The Hong Kong Jockey Club - Racing Laboratory
香港賽馬會 – 賽事化驗所

ADDRESS : Shatin Racecourse, New Territories, Hong Kong
地址 香港新界沙田馬場

ACCREDITED TEST CATEGORY : Chemical Testing 化學測試
認可測試類別

The Hong Kong Jockey Club - Racing Laboratory
香港賽馬會 – 賽事化驗所
Shatin Racecourse, New Territories, Hong Kong
香港新界沙田馬場

Chemical Testing 化學測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Chemical tests:-	
Equine, canine, camel and human body fluids and hair; materials that an animal may have received or may have been intended to receive	The laboratory has been accredited to modify and validate methods (qualitative and, where relevant, quantitative analyses) for the determination of:	In-house methods+ using CE, GC, LC, TLC, electrophoresis, colorimetry, immunoassay and mass spectrometry:
	Prohibited substances* as defined by the International Federation of Horseracing Authorities and the Rules of Racing of the Hong Kong Jockey Club and overseas clients	In-house method GA01 In-house method GA02 In-house method GA05 In-house method GA06 In-house method GA08 In-house method GA09 In-house method GA11 In-house method QM02 In-house method QM03 In-house method QM04 In-house method QM05 In-house method QM08 In-house method QM09 In-house method QM10 In-house method QM11 In-house method QM14 In-house method QM15 In-house method QM16 In-house method QM17 In-house method QM18 In-house method QM20 In-house method QM22 In-house method TA48 In-house method TA89 In-house method TA111

* DENOTES ACCREDITATION WILL COVER THOSE PROHIBITED SUBSTANCES FOR WHICH THE LABORATORY HAS A REFERENCE STANDARD AND WHICH ARE AMENABLE TO DETECTION BY THE METHOD

\+ TEST METHODS MEET THE PERFORMANCE SPECIFICATION OF THE INTERNATIONAL FEDERATION OF HORSERACING AUTHORITIES.

The Hong Kong Jockey Club - Racing Laboratory
香港賽馬會 – 賽事化驗所
Shatin Racecourse, New Territories, Hong Kong
香港新界沙田馬場

Chemical Testing 化學測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Chemical tests:-	
Equine, canine, camel and human body fluids and hair; materials that an animal may have received or may have been intended to receive	Trace elements including arsenic, antimony, barium, beryllium, bromide, cadmium, calcium, cobalt, copper, chromium, indium, iron, lead, lithium, magnesium, manganese, molybdenum, nickel, selenium, tellurium, thallium, uranium, vanadium, tin, titanium, tungsten and zinc	In-house method GA10 (Screening by ICP-MS) In-house method GA11 (Quantification by ICP-MS) In-house method QM12 (Quantification by ICP-MS) In-house method QM19 (Quantification by ICP-MS) In-house method QM21 (Quantification by ICP-MS) In-house method QM23 (Quantification by ICP-MS) In-house method TA66 (Screening by ICP-MS) In-house method TA85 (Screening and quantification by ICP-MS) In-house method TA97 (Screening by ICP-MS)
Equine urine	*Myo*-inositol trispyrophosphate (ITPP)	In-house method TA119 (Screening by IC-MS)

The Hong Kong Jockey Club - Racing Laboratory
香港賽馬會 – 賽事化驗所
Shatin Racecourse, New Territories, Hong Kong
香港新界沙田馬場

Chemical Testing 化學測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Gene doping detection:-	
Equine blood and Equine plasma	The laboratory has been accredited to modify and validate qualitative methods for the detection of:	In-house methods using real-time PCR
	Transgenes[&] as defined by the International Horseracing Authorities and the Rules of Racing of the Hong Kong Jockey Club and overseas	In-house method GA12 In-house method TA118 (Real-time PCR method) for qualitative analysis of transgenes In-house method TA122 (Multiplex real-time PCR method) for screening of transgenes

& DENOTES ACCREDITATION WILL COVER THOSE TRANSGENES FOR WHICH THE LABORATORY HAS A CERTIFIED REFERENCE MATERIAL OR POSITIVE DNA REFERENCE MATERIALS / PLASMIDS / VECTORS THAT ARE PROPERLY VERIFIED AND FULFILL ALL RELEVANT REQUIREMENTS SPECIFIED IN HOKLAS SUPPLEMENTARY CRITERIA NO. 21

Anderson Asphalt Limited – Tsing Yi Laboratory
安達臣瀝青有限公司 - 青衣實驗所

ADDRESS 地址	:	Tsing Yi Town Lot No. 108 RP, Sai Tso Wan Road, Tsing Yi, New Territories, Hong Kong 香港新界青衣西草灣路青衣市地段 108 號餘段
ENQUIRY 查詢	:	Dr CHEUNG Ho-kwong, Technical Manager 張可光博士，技術經理
TELEPHONE 電話	:	2649 8222
FAX 傳真	:	2637 3558
E-MAIL 電郵	:	info@aal.com.hk
CLIENTELE 服務對象	:	In-house laboratory, normally not available for public testing 內部實驗室，通常只提供內部服務

Anderson Asphalt Limited – Tsing Yi Laboratory
安達臣瀝青有限公司 - 青衣實驗所

ADDRESS
地址 : Tsing Yi Town Lot No. 108 RP, Sai Tso Wan Road, Tsing Yi, New Territories, Hong Kong
香港新界青衣西草灣路青衣市地段 108 號餘段

ACCREDITED TEST CATEGORY
認可測試類別 : Construction Materials 建築材料

Anderson Asphalt Limited – Tsing Yi Laboratory
安達臣瀝青有限公司 - 青衣實驗所
Tsing Yi Town Lot No. 108 RP, Sai Tso Wan Road, Tsing Yi, New Territories, Hong Kong
香港新界青衣西草灣路青衣市地段 108 號餘段

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Aggregates	Flakiness index	BS 812: Section 105.1: 1989
	Particle size distribution	BS 812: Section 103.1: 1985 + Amd. 6003 (by sieve analysis)
	Sampling	ASTM D75-97 Procedure 4.3.3 with modification BS 812: Part 102: 1989
	Specific gravity and absorption of coarse aggregates	ASTM C127-88 with modification
	Specific gravity and absorption of fine aggregates	ASTM C128-93
Bituminous materials	Bitumen content of bituminous paving materials by ignition method	ASTM D6307-19 Method B with modification
	Bulk specific gravity of non-absorptive compacted dense bituminous paving mixtures	ASTM D2726-90
	Mechanical size analysis of extracted aggregates	ASTM D5444-24 with modification
	Percentage air voids in compacted dense bituminous paving mixtures	ASTM D3203-88
	Polymer modified binder content of bituminous paving materials by combination of both centrifuge and ignition method	ASTM D2172-01 Method A, ASTM D6307-19 Method B & General Specification for Civil Engineering Works (2020) + Amd. 2/2022 Vol. 1 App. 9.2
	Quantitative extraction of bitumen from bituminous paving mixtures	ASTM D2172-01 Test method A with modification
	Sampling from truck transports	ASTM D979-01
	Sieve analysis of fine and coarse aggregates and materials finer than 75 micron sieve in mineral aggregates by washing	ASTM C117-95 Procedure B with modification ASTM C136-96a with modification
	Theoretical maximum specific gravity and density of bituminous paving mixtures	ASTM D2041-95 (weighing in water method) ASTM D2041-03a (weighing in water method)

K. Wah Asphalt Limited - Man Kam To Road Depot Laboratory
嘉華瀝青有限公司 - 文錦渡路駐廠房實驗室

ADDRESS : DD88, Lot 20R.P., 21 & 23R.P. (Part), Man Kam To Road, Sheung Shui, New Territories
地址 新界上水文錦渡路丈量約份第88約地段第20，21及23餘段

Postal address: Suite No. 912, 9/F., Skyline Tower, 39 Wang Kwong Road, Kowloon Bay, Hong Kong
郵寄地址:香港九龍灣宏光道 39 號宏天廣場 9 樓 912 室

ENQUIRY : Mr CHAN Yu Sum, Technical Manager
查詢 陳汝琛先生，技術經理

TELEPHONE : 2326 3356
電話

FAX : 2329 0926
傳真

E-MAIL : yschan@kwcml.com
電郵

CLIENTELE : In-house laboratory, normally not available for public testing
服務對象 內部實驗室，通常只提供內部服務

K. Wah Asphalt Limited – Man Kam To Road Depot Laboratory
嘉華瀝青有限公司 - 文錦渡路駐廠房實驗室

ADDRESS **地址**	:	DD88, Lot 20R.P., 21 & 23R.P. (Part), Man Kam To Road, Sheung Shui, New Territories 新界上水文錦渡路丈量約份第 88 約地段第 20, 21 及 23 餘段
ACCREDITED TEST CATEGORY **認可測試類別**	:	Construction Materials 建築材料

K. Wah Asphalt Limited – Man Kam To Road Depot Laboratory
嘉華瀝青有限公司 - 文錦渡路駐廠房實驗室
DD88, Lot 20R.P., 21 & 23R.P. (Part), Man Kam To Road, Sheung Shui, New Territories
新界上水文錦道丈量約份第 88 約地段第 20, 21 及 23 餘段

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Aggregates	Flakiness index	BS 812: Section 105.1: 1989
	Particle size distribution	BS 812: Section 103.1: 1985
	Sample reduction	ASTM C702-98 (Reapproved 2003) (Method A)
	Sampling	ASTM D75-03 Procedure 5.3.3 with modifications BS 812: Part 102: 1989
	Specific gravity and absorption of coarse aggregates	ASTM C127-88 (Reapproved 1993)
	Specific gravity and absorption of fine aggregates	ASTM C128-93
Bituminous materials	Bitumen content of bituminous paving materials by ignition method	ASTM D6307-04 (Method A)
	Bulk specific gravity of non-absorptive compacted dense bituminous paving mixtures	ASTM D2726-93a
	Mechanical size analysis of extracted aggregates	ASTM D5444-15 with modifications
	Percentage air voids in compacted dense bituminous paving mixtures	ASTM D3203-94
	Polymer modified binder content of bituminous paving materials by combination of both centrifuge and ignition method	ASTM D2172-93 (Method A with modifications) & ASTM D6307-04 (Method A)
	Quantitative extraction of bitumen from bituminous paving mixtures	ASTM D2172-93 (Method A with modifications)
	Sampling from truck transports / from the roadway prior to compaction	ASTM D979-01
	Sieve analysis of fine and coarse aggregates and materials finer than 75 micron sieve in mineral aggregates by washing	ASTM C117-03 Procedure B ASTM C136-01 with modifications
	Theoretical maximum specific gravity and density of bituminous paving mixtures	ASTM D2041-03a (weighing in water method)

K. Wah Asphalt Limited – Man Kam To Road Depot Laboratory
嘉華瀝青有限公司 - 文錦渡路駐廠房實驗室
DD88, Lot 20R.P., 21 & 23R.P. (Part), Man Kam To Road, Sheung Shui, New Territories
新界上水文錦道丈量約份第 88 約地段第 20, 21 及 23 餘段

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Road surfaces	Permeability of friction course materials	General Specification for Civil Engineering Works (2006) Vol. 1 App. 9.1
	Texture depth of carriageways (by sand patch test)	General Specification for Civil Engineering Works (2006) Vol. 1 App. 10.1

Intertek Testing Services Shenzhen Ltd.
深圳天祥質量技術服務有限公司

ADDRESS 地址	:	4/F, Building 1, Yuanzheng Science and Technology Industrial Park, No. 4012, Wuhe Avenue North, Bantian Street, Longgang District, Shenzhen, China 中國深圳市龍崗區坂田街道五和大道北 4012 號元征科技工業園 1 號樓 4 層
ENQUIRY 查詢	:	Ms Becky CHEN, Quality Assurance Manager 陳偉鑫,品質保證經理
TELEPHONE 電話	:	86-755-26020380
FAX 傳真	:	-
E-MAIL 電郵	:	becky.chen@intertek.com
WEBSITE ADDRESS 網址	:	www.intertek.com.cn
CLIENTELE 服務對象	:	Public 公眾

Intertek Testing Services Shenzhen Ltd.
深圳天祥質量技術服務有限公司

ADDRESS
地址

Main Laboratory	4/F, Building 1, Yuanzheng Science and Technology Industrial Park, No. 4012, Wuhe Avenue North, Bantian Street, Longgang District, Shenzhen, China 中國深圳市龍崗區坂田街道五和大道北4012號元征科技工業園1號樓4層
	4/F, Building 3, Yuanzheng Science and Technology Industrial Park, No. 4012, Wuhe Avenue North, Bantian Street, Longgang District, Shenzhen, China 中國深圳市龍崗區坂田街道五和大道北4012號元征科技工業園3號樓4層
Test Location at Guangzhou	C2-1, Heping Xu, Yongning Street, Zengcheng District, Guangzhou, China 中國廣州市增城區永寧街和平圩廠房C2-1

ACCREDITED TEST CATEGORIES
認可測試類別 : Construction Materials 建築材料
Toys and Children's Products 玩具及兒童產品

Intertek Testing Services Shenzhen Ltd.
深圳天祥質量技術服務有限公司
C2-1, Heping Xu, Yongning Street, Zengcheng District, Guangzhou, China
中國廣州市增城區永寧街和平圩廠房 C2-1

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Fire (Fire Resistance Tests)	Doors, shutters and openable windows	BS EN 1634-1: 2008 BS EN 1634-1: 2014 + A1: 2018
	Loadbearing vertical elements (excluding impact test) in the force range 0 kN -100 kN (for fire resistance tests up to 2 hours)	BS 476- 20: 1987 + Amd. 6487 + Corr. 1: 2014 and BS 476- 21: 1987 + Corr. 1: 2014 BS EN 1365-1: 2012 + Corr. 1: 2013 excluding Cl. 9.5
	Non-loadbearing elements - Wall (excluding impact test)	BS EN 1364-1: 1999 excluding Cl. 9.5 BS EN 1364-1: 2015 excluding Cl. 9.5
	Non-loadbearing vertical elements	BS 476-20: 1987 + Amd. 6487 + Corr. 1: 2014 and BS 476-22: 1987 + Corr. 1: 2014
	Non-loadbearing vertical elements of building construction (excluding impact test)	BS EN 1363-1: 1999 BS EN 1363-1: 2012 BS EN 1363-1: 2020 BS EN 1363-2: 1999 excluding Cl. 4 & 7
Fire (Others)	Pre-test conditioning for doors, shutters and openable windows	BS EN 14600: 2005 Cl. 5.1 (excluding Cl. 5.1.1.2) & Cl. 5.2 & Cl. 5.3.2 BS EN 16034: 2014 Annex A.2.2 & A.4
Fire (Smoke Control Tests)	Smoke control test for smoke control doors and shutters	BS EN 1634-3: 2004

Intertek Testing Services Shenzhen Ltd.
深圳天祥質量技術服務有限公司
4/F of Building 1 and 4/F of Building 3, Yuanzheng Science and Technology Industrial Park, No. 4012, Wuhe Avenue North, Bantian Street, Longgang District, Shenzhen, China
中國深圳市龍崗區坂田街道五和大道北 4012 號元征科技工業園 1 號樓 4 層及 3 號樓 4 層

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests :-	
Toys and other articles intended for use by children - paint and other similar surface-coating materials	- Total lead content	US Public Law 110 -314 Consumer Product Safety Improvement Act 2008 16 U.S. CFR 1303 *Test procedure for compliance testing:* CPSC Test method: CPSC-CH-E1003-09.1 Standard Operation Procedure for Determining, Lead (Pb) in Paint and Other Similar Surface Coatings, February 25, 2011
Children's metal products	- Total lead content	US Public Law 110 -314 Consumer Product Safety Improvement Act 2008 *Test procedures for compliance testing:* CPSC Test Method: CPSC-CH-E1001-08.1 Standard Operating Procedure for Determining Total Lead (Pb) in Children's Metal Products (Including Children's Metal Jewelry), June 21, 2010 CPSC Test Method: CPSC-CH-E1001-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Children's Metal Products (Including Children's Metal Jewelry), November 15, 2012 Revision ***<Excluding the following>*** XRF spectrometry
Non-metal children's products	- Total lead content	*Test procedures for compliance testing:* CPSC Test Method: CPSC-CH-E1002-08.1 Standard Operating Procedure for Determining Total Lead (Pb) in Non-Metal Children's Products , June 21, 2010 CPSC Test Method: CPSC-CH-E1002-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Non-Metal Children's Products , November 15, 2012 Revision ***<Excluding the following>*** XRF spectrometry

Intertek Testing Services Shenzhen Ltd.
深圳天祥質量技術服務有限公司
4/F of Building 1 and 4/F of Building 3, Yuanzheng Science and Technology Industrial Park, No. 4012, Wuhe Avenue North, Bantian Street, Longgang District, Shenzhen, China
中國深圳市龍崗區坂田街道五和大道北 4012 號元征科技工業園 1 號樓 4 層及 3 號樓 4 層

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests (cont'd) :-	
Toys and childcare articles	- Dibutyl Phthalate (DBP) - Benzyl Butyl Phthalate (BBP) - Di-(2ethylhexyl) Phthalate (DEHP) - Diisononyl Phthalate (DINP) - Diisobutyl Phthalate (DIBP) - Di-n-hexyl Phthalate (DHEXP) - Diphenyl Phthalate (DPENP) - Di-cyclohexyl Phthalate (DCHP)	US Public Law 110 -314 Consumer Product Safety Improvement Act 2008 US 16 CFR Part 1307 Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates *Test procedure for compliance testing:* CPSC Test Method: CPSC-CH-C1001-09.4 Standard Operating Procedure for Determination of Phthalates, January 17, 2018
Category III toy materials: Scraped-off materials	- Migration of certain elements:	EN 71-3:2019+A1:2021 BS EN 71-3:2019+A1:2021
	Aluminium, Antimony, Arsenic, Barium, Boron, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Mercury, Nickel, Selenium, Strontium, Tin and Zinc	Annex E Alternative method as documented in SZ-TP046-CCL-INO.09 (ICP-OES)
	Chromium (VI) and Chromium (III) (by calculation)	Annex F (IC-ICP-MS)
	Organic Tin: Methyl tin, Dimethyl tin, Butyltin, Dibutyl tin, Di-n-propyl tin, Tributyl tin, n-Octy tin, Tetrabutyl tin, Diphenyl tin, Di-n-octyl tin, Triphenyl tin	Annex G (GC-MS)

Intertek Testing Services Shenzhen Ltd.
深圳天祥質量技術服務有限公司
4/F of Building 1 and 4/F of Building 3, Yuanzheng Science and Technology Industrial Park, No. 4012, Wuhe Avenue North, Bantian Street, Longgang District, Shenzhen, China
中國深圳市龍崗區坂田街道五和大道北 4012 號元征科技工業園 1 號樓 4 層及 3 號樓 4 層

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests (cont'd) :-	
Toys	- Migration of the elements Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	Australian Trade Practice Act 1974 with Consumer Protection Notice no. 1, 2009 - Consumer Product Safety Standard for Lead and certain elements in children's toys. & Australian Customs Notice No. 2007/46 - Amendments to the Customs (Prohibited Imports) Regulations 1956 Schedule 2 Item 2 / 6 / 7 / 34 on toxic elements test *Test procedure for compliance testing:* AS/NZS ISO 8124.3: 2003
For toy materials given in Clause I, except modelling clay and putty, finger paint, and slime	- Migration of the elements: Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	AS/NZS ISO 8124.3:2021 + Amd 1:2023 (for dewaxing: Method A) ISO 8124-3:2020 + Amd 1:2023 (for dewaxing: Method A) (Techniques used: ICP-OES)
For finger paint	- Migration of the elements Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	AS/NZS ISO 8124.3:2021 + Amd 1: 2023 (for dewaxing: Method A) ISO 8124-3:2020 + Amd 1:2023 (for dewaxing: Method A) (Techniques used: ICP-OES & ICP-MS)
For modelling clay and putty	- Migration of the elements Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium, Boron	AS/NZS ISO 8124.3:2021 + Amd 1: 2023 (for dewaxing: Method A) ISO 8124-3:2020 + Amd 1:2023 (for dewaxing: Method A) (Techniques used: ICP-OES)
For slime	- Migration of the elements Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium, Boron	AS/NZS ISO 8124.3:2021 + Amd 1: 2023 ISO 8124-3:2020 + Amd 1:2023 (Techniques used: ICP-OES & ICP-MS)

Intertek Testing Services Shenzhen Ltd.
深圳天祥質量技術服務有限公司
4/F of Building 1 and 4/F of Building 3, Yuanzheng Science and Technology Industrial Park, No. 4012, Wuhe Avenue North, Bantian Street, Longgang District, Shenzhen, China
中國深圳市龍崗區坂田街道五和大道北 4012 號元征科技工業園 1 號樓 4 層及 3 號樓 4 層

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests (cont'd) :-	
All toys:- Paints and similar surface coating materials	- Total lead content	ASTM F963-23 Cl. 4.3.5.1 (1) *Test procedure for compliance testing:* CPSC Test Method CPSC-CH-E1003-09.1 Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings, February 25, 2011
	- Migration of the elements Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	ASTM F963-23 Cl. 4.3.5.1 (2) *Test procedure for compliance testing:* ASTM F963-23 Cl. 8.3.2 – 8.3.4
Toys:- Substrate materials (excluding children's jewelry)	- Total lead content	ASTM F963-23 Cl. 4.3.5.2 (2)(a) *Test procedure for compliance testing:* CPSC Test Method CPSC-CH-E1001-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Children's Metal Products (Including Children's Metal Jewelry), November 15, 2012 ***<Excluding the following>*** XRF spectrometry *Test procedure for compliance testing:* CPSC Test Method CPSC-CH-E1002-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Non-metal Children's Products, November 15, 2012 ***<Excluding the following>*** XRF spectrometry
	- Migration of the elements Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	ASTM F963-23 Cl. 4.3.5.2 (2)(b) & (c) *Test procedure for compliance testing:* ASTM F963-23 Cl. 8.3.5

Intertek Testing Services Shenzhen Ltd.
深圳天祥質量技術服務有限公司
4/F of Building 1 and 4/F of Building 3, Yuanzheng Science and Technology Industrial Park, No. 4012, Wuhe Avenue North, Bantian Street, Longgang District, Shenzhen, China
中國深圳市龍崗區坂田街道五和大道北 4012 號元征科技工業園 1 號樓 4 層及 3 號樓 4 層

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests (cont'd) :-	
Metallic toys or metallic toy components	- Extractable Cadmium	ASTM F963-23 Cl. 4.3.5.2 (2)(d) *Test procedure for compliance testing:* ASTM F963-23 Cl. 8.3.5.5 (3) and CPSC Test method: CPSC-CH-E1004-11 Standard Operating Procedure for Determining Cadmium (Cd) Extractability from Children's Metal Jewelry, February 03, 2011
Toys (including pacifiers, rattles, and teethers) for children 12 years of age and younger	- Phthalates Di-(2-ethylhexyl)-phthalate (DEHP) Dibutyl phthalate (DBP) Butyl benzyl phthalate (BBP) Di-iso-nonyl phthalate (DINP) Diisobutyl Phthalate (DIBP) Dipentyl phthalate (DPENP) Di-n-hexyl-phthalate (DHEXP) Di-cyclohexyl phthalate (DCHP)	ASTM F963-23 Cl.4.3.8 *Test procedure for compliance testing:* CPSC Test Method CPSC-CH-C1001-09.4 Standard Operating Procedure for Determination of Phthalates, January 17, 2018

Intertek Testing Services Shenzhen Ltd.
深圳天祥質量技術服務有限公司
4/F of Building 1 and 4/F of Building 3, Yuanzheng Science and Technology Industrial Park, No. 4012, Wuhe Avenue North, Bantian Street, Longgang District, Shenzhen, China
中國深圳市龍崗區坂田街道五和大道北 4012 號元征科技工業園 1 號樓 4 層及 3 號樓 4 層

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Products made from textile	Amine (Azo colourants) : 1) 4-aminobiphenyl 2) benzidine 3) 4-chloro-o-toluidine 4) 2-naphthylamine 5) o-aminoazotoluene 6) 5-nitro-o-toluidine 7) 4-chloroaniline 8) 4-methoxy-m-phenylenediamine 9) 4,4'-diaminodiphenylmethane 10) 3,3'-dichlorobenzidine 11) 3,3'-dimethoxybenzidine 12) 3,3'-dimethylbenzidine 13) 4,4'-methylene-di-o-toluidine 14) p-cresidine 15) 4,4'-methylene-bis-(2-chloro-aniline) 16) 4,4'-oxydianiline 17) 4,4'-thiodianiline 18) o-toluidine 19) 4-methyl-m-phenylenediamine 20) 2,4,5-trimethylaniline 21) 2-methoxyaniline 22) 4-aminoazobenzene	Regulation (EC) No. 1907/2006 on REACH Annex XVII Item No 43 as amended by Commission Regulation (EC) No. 552/2009 and Commission Regulation (EU) No. 2020/2096 *Test procedures for compliance testing for textile products:* - EN ISO 14362-1: 2017 *Test procedures for compliance testing for textile products:* - EN ISO 14362-3: 2017 Techniques used are GC-MSD and HPLC-DAD for the test methods listed above.

Intertek Testing Services Shenzhen Ltd.
深圳天祥質量技術服務有限公司
4/F of Building 1 and 4/F of Building 3, Yuanzheng Science and Technology Industrial Park, No. 4012, Wuhe Avenue North, Bantian Street, Longgang District, Shenzhen, China
中國深圳市龍崗區坂田街道五和大道北 4012 號元征科技工業園 1 號樓 4 層及 3 號樓 4 層

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Electrical tests :-	
Battery-operated toys	- Battery-operated toys safety tests	AS/NZS ISO 8124.1: 2002 + A1: 2007 + A2: 2009 + A3: 2009 Annex A ASTM F963-17 Section 4.25 ASTM F963-23 Section 4.25
Electric toys	- Compliance inspection and safety tests	EN 62115: 2005 + A12: 2015 BS EN 62115: 2005 + A12: 2015 **<*Excluding the following*>** for the above two standards Cl. 14.15, 19.2.1, 19 (burning tests to IEC 60695-11-10 and ISO 9772, glow-wire ignition temperature test to IEC 60695-2-13), and 20 (radiation tests); Annexes C, E and Annex ZB IEC 62115: 2017 AS/NZS 62115: 2018 + A1:2021 EN IEC 62115: 2020 + A11: 2020 BS EN IEC 62115: 2020 + A11: 2020 **<*Excluding the following*>** for the above four standards Cl. 13.8, 18 (burning tests to IEC 60695-11-10 and ISO 9772, glow-wire ignition temperature test to IEC 60695-2-13), and 19.2; Annexes C, D and E

Intertek Testing Services Shenzhen Ltd.
深圳天祥質量技術服務有限公司
4/F of Building 1 and 4/F of Building 3, Yuanzheng Science and Technology Industrial Park, No. 4012, Wuhe Avenue North, Bantian Street, Longgang District, Shenzhen, China
中國深圳市龍崗區坂田街道五和大道北 4012 號元征科技工業園 1 號樓 4 層及 3 號樓 4 層

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Flammability tests:-	
Toys	- Safety requirements and test methods	16 CFR Part 1500.44
	- Safety requirements and test methods	16 CFR Part 1610 (73 FR 15640 as amended at 73 FR 62187, 88 FR 73230, 88 FR 73231 and 88 FR 73233)
	- Safety requirements and test methods	ASTM F963-17 Section 4.2 ASTM F963-23 Section 4.2
	- Safety requirements and test methods	AS/NZS ISO 8124.2: 2023 ***<Excluding the following>*** Test for flammable gas, extremely flammable liquid, highly flammable liquid, flammable liquid and flammable gel
	- Safety requirements and test methods	ISO 8124-2: 2014 ISO 8124-2: 2023 ***<Excluding the following>*** for the above two standards Test for flammable gas, extremely flammable liquid, highly flammable liquid, flammable liquid and flammable gel
	- Safety requirements and test methods	EN 71-2: 2020 BS EN 71-2: 2020 ***<Excluding the following>*** for the above two standards Tests for flammable gas, extremely flammable liquid, highly flammable liquid, flammable liquid and flammable gel

Intertek Testing Services Shenzhen Ltd.
深圳天祥質量技術服務有限公司
4/F of Building 1 and 4/F of Building 3, Yuanzheng Science and Technology Industrial Park, No. 4012, Wuhe Avenue North, Bantian Street, Longgang District, Shenzhen, China
中國深圳市龍崗區坂田街道五和大道北 4012 號元征科技工業園 1 號樓 4 層及 3 號樓 4 層

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Physical and mechanical tests :-	
Toys	- Safety requirements and test methods	AS/NZS ISO 8124.1: 2002 + A1: 2007 + A2: 2009 + A3: 2009 ***<Excluding the following>*** Annex F (Toys with earphones or headphones)
	- Safety requirements and test methods	AS/NZS ISO 8124.1: 2010 + A1: 2011
	- Safety requirements and test methods	AS/NZS ISO 8124.1: 2019 + Amd 1: 2020 + Amd 2: 2020 ISO 8124-1: 2018 + Amd.1: 2020 + Amd.2: 2020 ***<Excluding the following>*** for the above two standards Cl. 4.8.2
	- Safety requirements and test methods	AS/NZS ISO 8124.1: 2023 ***<Excluding the following>*** Cl. 4.8.2
	- Safety requirements and test methods	ISO 8124-1: 2022 ***<Excluding the following>*** Cl. 4.8.2

Intertek Testing Services Shenzhen Ltd.
深圳天祥質量技術服務有限公司
4/F of Building 1 and 4/F of Building 3, Yuanzheng Science and Technology Industrial Park, No. 4012, Wuhe Avenue North, Bantian Street, Longgang District, Shenzhen, China
中國深圳市龍崗區坂田街道五和大道北 4012 號元征科技工業園 1 號樓 4 層及 3 號樓 4 層

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Physical and mechanical tests :- (cont'd)	
Toys for children up to and including 36 months of age	- Safety requirements and test methods	Trade Practices Act 1974 Consumer Protection Notice No.14 of 2003 and amendments up to Consumer Protection Notice No. 1 of 2005 in conjunction with AS/NZS ISO 8124.1: 2002 with modifications
Small, High Powered Magnets	- Safety requirements and test methods	Competition and Consumer Act 2010 Consumer Protection Notice No. 5 of 2012 in conjunction with AS/NZS ISO 8124.1: 2010 with modifications

Intertek Testing Services Shenzhen Ltd.
深圳天祥質量技術服務有限公司
4/F of Building 1 and 4/F of Building 3, Yuanzheng Science and Technology Industrial Park, No. 4012, Wuhe Avenue North, Bantian Street, Longgang District, Shenzhen, China
中國深圳市龍崗區坂田街道五和大道北 4012 號元征科技工業園 1 號樓 4 層及 3 號樓 4 層

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Physical and mechanical tests :- (cont'd)	
Aquatic toys	- Safety requirements and test methods	Australian Consumer Goods (Aquatic toys) Safety Standard 2020 in conjunction with AS/NZS ISO 8124-1: 2019 Cl. 4.20 and Annex B.2.6, or ISO 8124-1: 2018 Cl. 4.20 and Annex B.2.6
Toys Containing Magnets	- Safety requirements and test methods	Australian Consumer Goods (Toys Containing Magnets) Safety Standard 2020 in conjunction with AS/NZS ISO 8124-1: 2019 Cl. 4.1, 4.31, EN 71-1: 2014+A1:2018 Cl. 4.23, ISO 8124-1: 2018 Cl. 4.1 and 4.31, or ASTM F963-17 section 4.38, 8.5 and 8.9
Projectile toys	- Safety requirements and test methods	Australian Consumer Goods (Projectile toys) Amendment Safety Standard 2021 in conjunction with AS/NZS ISO 8124-1: 2019 + Amd.1: 2020 + Amd.2: 2020 Cl. 4.18, 4.19, EN 71-1: 2014 + A1: 2018 Cl. 4.11(e) & 4.17, ISO 8124-1: 2018 + Amd.1: 2020 + Amd.2: 2020 Cl. 4.18 and 4.19, or ASTM F963-17 Section 4.21
Toy for children up to and including 36 months of age	- Safety requirements and test methods	Australia Consumer Goods (Toys for Children up to and including 36 Months of Age) safety standard 2023 in conjunction with AS/NZS ISO 8124.1: 2023 with modifications, ISO 8124-1: 2022 with modifications, EN 71-1: 2014 + A1: 2018, ASTM F963-17 with modifications or AS/NZS 62115: 2018 with modifications

Intertek Testing Services Shenzhen Ltd.
深圳天祥質量技術服務有限公司
4/F of Building 1 and 4/F of Building 3, Yuanzheng Science and Technology Industrial Park, No. 4012, Wuhe Avenue North, Bantian Street, Longgang District, Shenzhen, China
中國深圳市龍崗區坂田街道五和大道北 4012 號元征科技工業園 1 號樓 4 層及 3 號樓 4 層

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Physical and mechanical tests :- (cont'd)	
Toys	- Safety requirements and test methods	BS EN 71-1: 2014 + A1: 2018 EN 71-1: 2014 + A1: 2018 ***<Excluding the following>*** for the above two standards Cl. 4.18 (tests to EN 15649-3) and 4.20.2.5
Toy disguise costume	- Safety requirements and test methods	BS EN 14682: 2014 EN 14682: 2014
Toys		ASTM F963-17
	- Safety Requirements:	Section 4.1, 4.3.7, 4.5, 4.6, 4.7, 4.8, 4.9, 4.10, 4.11, 4.12, 4.13, 4.14, 4.15, 4.16, 4.17, 4.18, 4.19, 4.20, 4.20.2, 4.21, 4.22, 4.23, 4.23.1, 4.23.2, 4.24, 4.26, 4.27, 4.28, 4.30, 4.31, 4.32,4.33, 4.34, 4.35, 4.36, 4.37, 4.38, 4.39, 4.40, 4.41 ***<Excluding the following>*** Section 4.1 (examination of reprocessed materials to 4.3.1), 4.8.1 and 4.20.1
	- Safety labeling requirements	Section 5
	- Instructional literature	Section 6
	- Producer's markings	Section 7
	- Test Methods	Section 8
		ASTM F963-23
	- Safety Requirements:	Section 4.1, 4.3.7, 4.5, 4.6, 4.7, 4.8, 4.9, 4.10, 4.11, 4.12, 4.13, 4.14, 4.15, 4.16, 4.17, 4.18, 4.19, 4.20, 4.20.2, 4.21, 4.22, 4.23, 4.23.1, 4.23.2, 4.24, 4.26, 4.27, 4.28, 4.30, 4.31, 4.32,4.33, 4.34, 4.35, 4.36, 4.37, 4.38, 4.39, 4.40, 4.41 ***<Excluding the following>*** Section 4.1 (examination of reprocessed materials to 4.3.1), 4.8.1 and 4.20.1
	- Safety labeling requirements	Section 5
	- Instructional literature	Section 6
	- Producer's markings	Section 7
	- Test Methods	Section 8

Intertek Testing Services Shenzhen Ltd.
深圳天祥質量技術服務有限公司
4/F of Building 1 and 4/F of Building 3, Yuanzheng Science and Technology Industrial Park, No. 4012, Wuhe Avenue North, Bantian Street, Longgang District, Shenzhen, China
中國深圳市龍崗區坂田街道五和大道北 4012 號元征科技工業園 1 號樓 4 層及 3 號樓 4 層

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Physical and mechanical tests :-	
Toys intended for use by children under 8 years of age	- Technical requirements for determining a sharp point in toys intended for use by children under 8 years of age	16 CFR 1500.48
	- Technical requirements for determining a sharp metal or glass edge in toys intended for use by children under 8 years of age	16 CFR 1500.49
	- Test methods for simulating use and abuse of toys intended for use by children - Impact test - Flexure test - Torque test - Tension test - Compression test	16 CFR 1500.50, 1500.51, 1500.52 and 1500.53
Toys and other articles intended for use by children under 3 years of age	- Method for identifying choking, aspiration, or ingestion hazards because of small parts	16 CFR 1501 in conjunction with test methods specified in 16 CFR 1500.51 or 16 CFR 1500.52 [excluding bite test to 1500.51(c) or 1500.52 (c)]
Infant rattles	- Method for identifying choking and/or suffocation hazards	16 CFR 1510 in conjunction with test methods specified in 16 CFR 1500.51 [excluding bite test to 1500.51(c) and flexure test to 1500.51 (d)]
Pacifiers	- Requirement for pacifiers	16 CFR 1511

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所

ADDRESS 地址	:	36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong 香港灣仔告士打道7號入境事務大樓36樓
ENQUIRY 查詢	:	Ms Brenda LAM 林凱珊女士
TELEPHONE 電話	:	2829 4830
FAX 傳真	:	2829 4865
E-MAIL 電郵	:	scl@itc.gov.hk
WEBSITE ADDRESS 網址	:	https://www.itc.gov.hk/en/quality/scl/index.html
CLIENTELE 服務對象	:	Public 公眾

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所

ADDRESS **地址**	:	36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong 香港灣仔告士打道 7 號入境事務大樓 36 樓 G04, Public Works Central Laboratory Building, 2B Cheung Yip Street, Kowloon Bay, Kowloon 九龍九龍灣祥業街 2 號 B 工務中央試驗所大樓地下 04 室
ACCREDITED TEST CATEGORY **認可測試類別**	:	Calibration Services 校正服務 Proficiency Testing Provider 能力驗證提供者

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Acoustic and vibration measurements		
- Acoustic measurements		
- 1 inch laboratory standard microphone (LS1P)	Calibration for pressure field open-circuit sensitivity in accordance with IEC 61094-2: 1992 over the following frequency ranges:	
	63 Hz to 4 kHz	0.04 dB
	Above 4 kHz to 6 kHz	0.05 dB
	Above 6 kHz to 8 kHz	0.06 dB
	Above 8 kHz to 10 kHz	0.08 dB
	Calibration for pressure field open-circuit sensitivity in accordance with IEC 61094-2: 2009 over the following frequency ranges:	
	20 Hz to 6.3 kHz	0.04 dB
	Above 6.3 kHz to 8 kHz	0.05 dB
	Above 8 kHz to 10 kHz	0.08 dB
- ½ inch laboratory standard microphone (LS2P)	Calibration for pressure field open-circuit sensitivity in accordance with IEC 61094-2: 1992 over the following frequency ranges:	
	63 Hz to 12 kHz	0.04 dB
	Above 12 kHz to 16 kHz	0.05 dB
	Above 16 kHz to 20 kHz	0.08 dB
	Above 20 kHz to 25 kHz	0.14 dB
	Calibration for pressure field open-circuit sensitivity in accordance with IEC 61094-2: 2009 over the following frequency ranges:	
	20 Hz	0.08 dB
	Above 20 Hz to 25.1 Hz	0.06 dB
	Above 25.1 Hz to 12.6 kHz	0.05 dB
	Above 12.6 kHz to 16 kHz	0.06 dB
	Above 16 kHz to 20 kHz	0.09 dB
	Above 20 kHz to 25 kHz	0.13 dB

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Acoustic and vibration measurements		
- Acoustic measurements		
- ½ inch working grade microphone	Calibration for pressure field open-circuit sensitivity by comparison with the laboratory standard microphone in accordance with IEC 61094-5: 2001 over the following frequency ranges:	
	63 Hz to 125 Hz	0.10 dB
	Above 125 Hz to 10 kHz	0.07 dB
	Above 10 kHz to 20 kHz	0.20 dB
	Calibration for pressure field open-circuit sensitivity by comparison with the laboratory standard microphone in accordance with IEC 61094-5: 2016 over the following frequency ranges:	
	20 Hz to 40 Hz	0.15 dB
	Above 40 Hz to 125 Hz	0.10 dB
	Above 125 Hz to 10 kHz	0.07 dB
	Above 10 kHz to 20 kHz	0.20 dB
	Calibration for pressure field open-circuit sensitivity using sound calibrator in accordance with in-house procedure TPA029 over the following frequency ranges:	
	63 Hz to 8 kHz	0.2 dB
	Above 8 kHz to 12.6 kHz	1.0 dB
	Above 12.6 kHz to 16 kHz	1.5 dB
	Above 16 kHz to 20 kHz	2.5 dB
	Calibration for relative frequency response using electrostatic actuator in accordance with IEC 61094-6: 2004 over the following frequency ranges:	
	63 Hz to 10 kHz	0.1 dB
	Above 10 kHz to 20 kHz	0.2 dB

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Acoustic and vibration measurements		
- Acoustic measurements		
- ½ inch working grade microphone in combination with constant current line drive (CCLD) microphone preamplifier	Calibration for pressure field open-circuit sensitivity in accordance with IEC 61094-5: 2016 over the following frequency ranges:	
	63 Hz to 4 kHz	0.07 dB
	Above 4 kHz to 8 kHz	0.10 dB
	Above 8 kHz to 10 kHz	0.43 dB
	Above 10 kHz to 12.5 kHz	1.2 dB
- ½ inch working grade microphone in combination with microphone preamplifier	Calibration for pressure field open-circuit sensitivity by comparison with the laboratory standard microphone in accordance with in-house procedure TPA031 over the following frequency ranges:	
	63 Hz to 126 Hz	0.10 dB
	Above 126 Hz to 10 kHz	0.08 dB
	Above 10 kHz to 20 kHz	0.20 dB
	Above 20 kHz to 25 kHz	0.40 dB
- 1/4 inch working grade microphone (WS3P)	Calibration for pressure field open-circuit sensitivity in accordance with IEC 61094-5:2016 over the following frequency ranges:	
	63 Hz to 4 kHz	0.10 dB
	Above 4 kHz to 10 kHz	0.15 dB
	Above 10 kHz to 20 kHz	0.35 dB
- 1 inch working grade microphone	Calibration for pressure field open-circuit sensitivity by comparison with the laboratory standard microphone in accordance with in-house procedure TPA028 over the following frequency ranges:	
	63 Hz to 4 kHz	0.07 dB
	Above 4 kHz to 8 kHz	0.12 dB
	Above 8 kHz to 10 kHz	0.15 dB

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Acoustic and vibration measurements		
- Acoustic measurements		
- Audio network analyzer	Calibration for the following parameters in accordance with in-house procedure TPA023:	
	- Amplitude accuracy over the following ranges:	
	20 Hz and 100 kHz	
	0.02 V to 10 V	0.1 % to 0.3 %
	3 mV to 20 mV	0.2 % to 1 %
	- Amplitude linearity	0.02 dB
	- Frequency accuracy over the following frequency ranges:	
	20 Hz to 20 kHz	1 Hz
	Above 20 kHz to 50 kHz	2 Hz
	Above 50 kHz to 100 kHz	3 Hz
	- Ratio between channels	0.002
	- Phase between channels over the following frequency ranges:	
	20 Hz to 1 kHz	0.007°
	Above 1 kHz to 6.25 kHz	0.013°
	Above 6.25 kHz to 50 kHz	0.032°
	Above 50 kHz to 100 kHz	0.064°

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Acoustic and vibration measurements		
- Acoustic measurements		
- Audiometer	Calibration for the following parameters in accordance with IEC 60645-1: 2012:	
	- Level accuracy of earphone over the following frequency ranges:	
	125 Hz to 4 kHz	0.6 dB
	Above 4 kHz to 8 kHz	1.0 dB
	- Level accuracy of bone vibrator over the following frequency ranges:	
	250 Hz to 1.5 kHz	0.7 dB
	Above 1.5 kHz to 2 kHz	0.9 dB
	Above 2 kHz to 4 kHz	1.3 dB
	Above 4 kHz to 6 kHz	1.8 dB
	Above 6 kHz to 8 kHz	2.0 dB
	- Frequency of test signals	1 Hz
	- Levels of masking noise	1.0 dB
	- Attenuator steps accuracy	0.2 dB
	- Harmonic distortion of test signals	0.6 %
	- Rise and fall times of test signals	2 ms
	- Cross-talk between earphone channels	1.0 dB
	- Masking noise spectra	0.5 dB
	- Distortion of speech input systems	0.6 %

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Acoustic and vibration measurements		
- Acoustic measurements		
- Hearing aid analyzer	Calibration for sound pressure level in accordance with in-house procedure TPA037 over the following range:	
	200 Hz to 2 kHz 55 dB to 85 dB	1 dB
- Measuring amplifier	Calibration for the following parameters in accordance with IEC 60651: 2001 and IEC 60804: 2000:	
	- Frequency weighting A test	0.1 dB
	- Frequency weighting Linear test	0.1 dB
	- Level linearity test	0.1 dB
	- Time weighting F test	0.1 dB
	- Time weighting S test	0.1 dB

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Acoustic and vibration measurements		
- Acoustic measurements		
- Microphone preamplifier	Calibration for the following parameters in accordance with in-house procedure TPA032:	
	- Gain	0.0003
	- Frequency response	0.01 dB
	- Input capacitance	0.05 pF
- Mouth simulator	On-site calibration for the following parameters using the laboratory standard microphone in accordance with in-house procedure TPA030:	
	- Sound pressure level over the following frequency ranges:	
	100 Hz to 1 kHz	1.5 dB
	Above 1 kHz to 8 kHz	2.0 dB
	- Distortion at 94 dB over the following frequency ranges:	
	100 Hz to 200 Hz	0.2 %
	Above 200 Hz to 8 kHz	0.1 %
- Octave filter	Calibration for the following parameters in accordance with in-house procedure TPA008:	
	- Pass-band attenuation	0.02 dB
	- Stop-band attenuation	1 dB

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Acoustic and vibration measurements		
- Acoustic measurements		
- Otoacoustic emissions (OAE) analyzer	Calibration for the following parameters in accordance with in-house procedure TPA038:	
	- Frequency of stimulus signal over the following range:	
	500 Hz to 8 kHz	0.5 Hz
	- Sound pressure level of stimulus signal over the following range:	
	65 dB to 75 dB	1 dB
	- Harmonic distortion of stimulus signal over the following frequency range:	
	500 Hz to 8 kHz	0.05 %
- Personal sound exposure meter, noise dose meter, noise dosimeter	Calibration for the following parameters in accordance with IEC 61252: 1993 + A1: 2000 + A2: 2017:	
	- Absolute acoustic sensitivity sound exposure	6.8 %
	- Electrical Tests	
	- Frequency weighting	0.5 %
	- Linearity of response to steady signals over the following frequencies:	
	63 Hz	2.0 %
	1 kHz	
	Below 80 dB	20 %
	80 dB to 100 dB	5.0 %
	Above 100 dB to 130 dB	1.0 %
	Above 130 dB to 140 dB	2.0 %
	8 kHz	1.0 %
	- Response to short-duration signals	1.1 %
	- Response to unipolar pulse	1.4 %
	- Latching overload indicator	0.2 dB

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Acoustic and vibration measurements		
- Acoustic measurements		
- Sound calibrator	Calibration for the following parameters in accordance with IEC 60942: 2000:	
	- Sound pressure level over the following ranges:	
	63 Hz to 4 kHz	
	94 dB to 124 dB	0.06 dB
	Above 4 kHz to 16 kHz	
	94 dB to 124 dB	0.09 dB
	- Frequency accuracy over the following frequency range:	
	63 Hz to 16 kHz	1 x 10^{-5} of result
	- Distortion over the following range:	
	63 Hz to 16 kHz	
	94 dB to 114 dB	0.5 %
	Calibration for the following parameters in accordance with IEC 60942: 2003:	
	- Sound pressure level over the following ranges:	
	63 Hz to 4 kHz	
	94 dB to 124 dB	0.06 dB
	Above 4 kHz to 8 kHz	
	94 dB to 124 dB	0.10 dB
	Above 8 kHz to 16 kHz	
	94 dB to 124 dB	0.16 dB
	- Frequency accuracy over the following frequency range:	
	63 Hz to 16 kHz	1 x 10^{-5} of result
	- Distortion over the following range:	
	63 Hz to 16 kHz	
	94 dB to 114 dB	0.5 %

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Acoustic and vibration measurements		
- Acoustic measurements		
- Sound calibrator	Calibration for the following parameters in accordance with IEC 60942: 2017:	
	- Sound pressure level over the following ranges:	
	63 Hz to 4 kHz	
	94 dB to 124 dB	0.06 dB
	Above 4 kHz to 8 kHz	
	94 dB to 124 dB	0.10 dB
	Above 8 kHz to 16 kHz	
	94 dB to 124 dB	0.16 dB
	- Frequency accuracy over the following frequency range:	
	63 Hz to 16 kHz	1×10^{-5} of result
	- Total distortion and noise over the following ranges:	
	63 Hz to 16 kHz:	
	94 dB to 114 dB	0.5 %
	250 Hz	
	124 dB	0.5 %

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Acoustic and vibration measurements		
- Acoustic measurements		
- Sound level meter	Calibration for the following parameters in accordance with IEC 61672-3: 2006:	
	- Indication at the calibration check frequency	0.1 dB
	- Self-generated noise	0.1 dB
	- Acoustical signal tests of a frequency weighting over the following frequency ranges:	
	63 Hz to 4 kHz	0.1 dB
	Above 4 kHz to 8 kHz	0.2 dB
	- Electrical signal tests of frequency weighting	0.1 dB
	- Frequency and time weightings at 1 kHz	0.1 dB
	- Level linearity on the reference level range	0.1 dB
	- Level linearity including the level range control	0.1 dB
	- Toneburst response	0.1 dB
	- Peak C sound level	0.1 dB
	- Overload indication	0.1 dB
	Calibration for the following parameters in accordance with IEC 61672-3: 2013:	
	- Indication at the calibration check frequency	0.2 dB
	- Self-generated noise	0.1 dB
	- Acoustical signal tests of a frequency weighting over the following frequency ranges:	
	63 Hz to 1 kHz	0.2 dB
	Above 1 kHz to 8 kHz	0.3 dB
	- Electrical signal tests of frequency weighting	0.1 dB
	- Frequency and time weightings at 1 kHz	0.1 dB
	- Long-term stability	0.1 dB
	- Level linearity on the reference level range	0.1 dB
	- Level linearity including the level range control	0.1 dB
	- Toneburst response	0.1 dB
	- C-weighted peak sound level	0.1 dB
	- Overload indication	0.1 dB
	- High-level stability	0.1 dB

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED[@]** 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Acoustic and vibration measurements		
- Acoustic measurements		
- Tympanometer	Calibration for the following parameters in accordance with in-house procedure TPA035:	
	- Frequency of probe tone over the following range:	
	226 Hz to 1 kHz	0.6 Hz
	- Sound pressure level of probe tone at 85 dB	0.7 dB
	- Harmonic distortion of probe tone over the following frequency range:	
	226 Hz to 1 kHz	0.05 %
- Type 1 ear simulator	Calibration for the following parameters in accordance with IEC 60318-1: 2009:	
	- Relative sound pressure response over the following frequency ranges:	
	40 Hz to 63 Hz	2.0 dB
	Above 63 Hz to 80 Hz	1.0 dB
	Above 80 Hz to 4 kHz	0.7 dB
	Above 4 kHz to 8 kHz	1.0 dB
	- Relative transfer impedance over the following frequency ranges:	
	40 Hz to 63 Hz	2.0 dB
	Above 63 Hz to 80 Hz	1.0 dB
	Above 80 Hz to 4 kHz	0.7 dB
	Above 4 kHz to 8 kHz	1.0 dB

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Acoustic and vibration measurements		
- Acoustic measurements		
- Type 3.2 ear simulator	Calibration for the following parameters in accordance with ITU-T P.57: 2005:	
	- Relative frequency sensitivity response over the following frequency ranges:	
	40 Hz to 63 Hz	2.0 dB
	Above 63 Hz to 80 Hz	1.0 dB
	Above 80 Hz to 4 kHz	0.7 dB
	- Acoustic impedance over the following frequency ranges:	
	40 Hz to 63 Hz	2.0 dB
	Above 63 Hz to 80 Hz	1.0 dB
	Above 80 Hz to 4 kHz	0.7 dB
- Head and Torso Simulator (HATS)	Calibration for the following parameters in accordance with ITU-T P.58: 2013:	
	- Maximum deliverable sound pressure level of HATS mouth over the following frequency range:	
	100 Hz to 10 kHz	0.5 dB
	- Harmonic distortion of HATS mouth over the following frequency range:	
	100 Hz to 10 kHz	1.5 %
	- Sound pick-up free field frequency response of HATS over the following frequency ranges:	
	100 Hz to 8 kHz	1.5 dB
	Above 8 kHz to 20 kHz	2.9 dB

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED[@]** 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Acoustic and vibration measurements		
- Acoustic measurements		
- Ultrasonic transducer	Calibration for the following parameters in accordance with IEC 61161: 2013:	
	- Radiation conductance at the following values or over the following ranges:	
	1 MHz to 3 MHz	
	50 mW	8.0 %
	Above 50 mW to 10 W	6.0 %
	Above 3 MHz to 20 MHz	
	50 mW	8.0 %
	Above 50 mW to 1 W	5.0 %
	- Ultrasonic power at the following values or over the following ranges:	
	1 MHz to 3 MHz	
	50 mW	8.0 %
	Above 50 mW to 10 W	5.0 %
	Above 3 MHz to 20 MHz	
	50 mW	8.0 %
	Above 50 mW to 1 W	5.0 %

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Acoustic and vibration measurements		
- Acoustic measurements		
- PULSE analyser	Calibration for the following parameters in accordance with in-house procedure TPA057:	
	- Frequency generating function by direct measurement using laboratory frequency measurement standard over the following range:	
	20 Hz to 25 kHz	1.2×10^{-5} of result
	- AC voltage generating function by direct measurement using laboratory AC voltmeter at the following values or over the following ranges:	
	1 kHz	
	0.01 V to 0.2 V	4.4 μV to 34 μV
	Above 0.2 V to 1 V	49 μV to 0.14 mV
	Above 1 V to 2 V	0.15 mV to 0.49 mV
	20 Hz to 25 kHz	
	1 V	0.19 mV to 0.40 mV
	- Frequency measuring function by using laboratory frequency standard over the following range:	
	20 Hz to 25 kHz	1 mHz to 1 Hz
	- AC voltage measuring function by comparison with laboratory AC voltmeter at the following values or over the following ranges:	
	1 kHz	
	0.1 mV to 10 mV	2.8 μV to 4.4 μV
	Above 0.01 V to 0.2 V	4.5 μV to 34 μV
	Above 0.2 V to 1 V	49 μV to 0.13 mV
	Above 1 V to 2 V	0.14 mV to 0.49 mV
	20 Hz to 25 kHz	
	1 V	0.19 mV to 0.36 mV

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Acoustic and vibration measurements		
- Acoustic measurements		
- PULSE analyser	Calibration for the following parameter in accordance with in-house procedure TPA057:	
	- Phase measuring function by using laboratory phase standard over the following range:	
	1 kHz 0° to 360°	0.009°
- Mechanical coupler for the measurement of bone vibrators	Calibration for mechanical impedance in accordance with IEC 60318-6: 2007: over the following ranges:	
	125 Hz to 800 Hz Above 800 Hz to 4 kHz Above 4 kHz to 8 kHz	0.5 dB 0.7 dB 1.0 dB
	Calibration for force sensitivity level in accordance with in-house procedure TPA056 over the following ranges:	
	125 Hz to 800 Hz Above 800 Hz to 4 kHz Above 4 kHz to 8 kHz	0.4 dB 0.5 dB 1.2 dB

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Acoustic and vibration measurements		
- Vibration measurements		
- Accelerometer	Calibration for the following parameters using the laboratory standard laser vibrometer in accordance with in-house procedure TPV101:	
	- Charge sensitivity (modulus) over the following range: 10 Hz to 10 kHz 1 m/s^2 to 350 m/s^2	1.1 %
	- Charge sensitivity (phase shift) over the following range: 0° to 360°	2°
	Calibration for the following parameters by comparison with the laboratory standard accelerometer in accordance with ISO 16063-21:2003:	
	- Charge sensitivity (modulus) over the following range: 10 Hz to 10 kHz 1 m/s^2 to 350 m/s^2	1.5 %
	- Charge sensitivity (phase shift) over the following range: 0° to 360°	3°
	Calibration for the following parameter by comparison with the laboratory standard accelerometer in accordance with in-house procedure TPV002:	
	- Charge sensitivity (modulus) over the following range: 40 Hz to 4 kHz 10 m/s^2 to 100 m/s^2	1.5 %

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Acoustic and vibration measurements		
- Vibration measurements		
- Accelerometer and Acceleration measuring chain	Calibration for the following parameters in accordance with ISO 16063-11: 1999, Method 3	
	- Charge or voltage sensitivity (modulus) over the following ranges:	
	50 Hz to 5 kHz	
	1 m/s^2 to 350 m/s^2	0.5 %
	Above 5 kHz to 10 kHz	
	1 m/s^2 to 350 m/s^2	1.0 %
	Above 10 kHz to 15 kHz	
	1 m/s^2 to 350 m/s^2	1.5 %
	Above 15 kHz to 20 kHz	
	1 m/s^2 to 350 m/s^2	2.0 %
	- Charge or voltage sensitivity (phase shift) over the following ranges:	
	50 Hz to 5 kHz	
	0° to 360°	0.5°
	Above 5 kHz to 10 kHz	
	0° to 360°	1°
	Above 10 kHz to 15 kHz	
	0° to 360°	1.5°
	Above 15 kHz to 20 kHz	
	0° to 360°	2.0°

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Acoustic and vibration measurements		
- Vibration measurements		
- Acceleration measuring chain	Calibration for the following parameters using the laboratory standard laser vibrometer in accordance with in-house procedure TPV101:	
	- Voltage sensitivity (modulus) over the following range: 10 Hz and 10 kHz 1 m/s^2 to 350 m/s^2	1.1 %
	- Voltage sensitivity (phase shift) over the following range: 10 Hz and 10 kHz 0° to 360°	2°
	Calibration for the following parameters by comparison with the laboratory standard accelerometer in accordance with ISO 16063-21:2003:	
	- Voltage sensitivity (modulus) over the following range: 10 Hz and 10 kHz 1 m/s^2 to 350 m/s^2	1.5 %
	- Voltage sensitivity (phase shift) over the following range: 10 Hz and 10 kHz 0° to 360°	3°

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Acoustic and vibration measurements		
- Vibration measurements		
- Charge amplifier	Calibration for gain magnitude by comparison with standard air capacitor and AC voltmeter in accordance with in-house procedure TPV003 over the following range:	
	50 Hz and 10 kHz 1 mV/pC to 1 V/pC	0.4 %
- Vibration calibrator	Calibration for continuous sinusoidal vibration range by comparison with standard accelerometer in accordance with in-house procedure TPV104 over the following range:	
	10 Hz to 10 kHz 1 m/s^2 to 350 m/s^2	1.5 %

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Acoustic and vibration measurements		
- Vibration measurements		
- Vibration exciter, vibration shaker	On-site calibration for the following parameters of continuous sinusoidal vibration by using vibration analyser and accelerometer in accordance with in-house procedure TPV105:	
	- Displacement over the following range: 10 Hz to 10 kHz 0.0001 mm to 79 mm	2.4 %
	- Acceleration over the following range: 10 Hz to 10 kHz 1 m/s^2 to 350 m/s^2	2.4 %
	- Velocity over the following range: 10 Hz to 10 kHz 0.5 mm/s to 500 mm/s	2.4 %
	Calibration for the following parameters of continuous sinusoidal vibration by using vibration analyser and accelerometer in accordance with in-house procedure TPV105:	
	- Displacement over the following range: 10 Hz to 10 kHz 0.0001 mm to 79 mm	2.4 %
	- Acceleration over the following range: 10 Hz to 10 kHz 1 m/s^2 to 350 m/s^2	2.4 %
	- Velocity over the following range: 10 Hz to 10 kHz 0.5 mm/s to 500 mm/s	2.4 %

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Acoustic and vibration measurements		
- Vibration measurements		
- Vibration meter	Calibration for the following parameters of continuous sinusoidal vibration by using the laboratory standard laser vibrometer in accordance with in-house procedure TPV103:	
	- Displacement over the following range: 10 Hz to 10 kHz 0.0001 mm to 79 mm	1.1 %
	- Acceleration over the following range: 10 Hz to 10 kHz 1 m/s^2 to 350 m/s^2	1.1 %
	- Velocity over the following range: 10 Hz to 10 kHz 0.5 mm/s to 500 mm/s	1.1 %
	Calibration for the following parameters of continuous sinusoidal vibration by using the laboratory standard accelerometer in accordance with in-house procedure TPV103:	
	- Displacement over the following range: 10 Hz to 10 kHz 0.0001 mm to 79 mm	1.5 %
	- Acceleration over the following range: 10 Hz to 10 kHz 1 m/s^2 to 350 m/s^2	1.5 %
	- Velocity over the following range: 10 Hz to 10 kHz 0.5 mm/s to 500 mm/s	1.5 %

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- Direct Current (DC) and Low Frequency (LF) measurements		
- DC voltage source: standard cell, solid state voltage standard, multifunction calibrator	Calibration for DC voltage using the Josephson array voltage standard in accordance with in-house procedure TPD031 at the following values:	
	1 V	Q[60 nV, N]
	1.018 V	Q[60 nV, N]
	10 V	Q[120 nV, N] where $Q[a, b] = [a^2 + b^2]^{1/2}$, N is the source noise
	Calibration for DC voltage using the programmable Josephson array voltage standard in accordance with in-house procedure TPD091 at the following values:	
	1 V	Q[60 nV, N]
	1.018 V	Q[60 nV, N]
	10 V	Q[120 nV, N] where $Q[a, b] = [a^2 + b^2]^{1/2}$, N is the source noise
	Calibration for DC voltage using the electronic reference standards in accordance with in-house procedure TPD032 at the following values:	
	1 V	0.44 μV
	1.018 V	0.44 μV
	10 V	2.4 μV

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- DC voltage source: standard cell, solid state voltage standard, multifunction calibrator	Calibration for DC voltage using potentiometer in accordance with in-house procedure TPD007 over the following ranges:	
	1 μV to 20 mV	0.12 μV
	Above 20 mV to 200 mV	0.13 μV to 0.18 μV
	Above 200 mV to 2 V	0.26 μV to 1.3 μV
	Calibration for DC voltage using voltage ratio box in accordance with in-house procedure TPD016 over the following ranges:	
	2 V to 10 V	1.5 μV to 8.5 μV
	Above 10 V to 1000 V	8.5 μV to 1.1 mV
	Calibration for DC voltage using multi-function calibrator in accordance with in-house procedure TPD042 over the following ranges:	
	0.1 V to 10 V	0.17 μV to 8.5 μV
	Above 10 V to 1000 V	8.5 μV to 1.1 mV
	Calibration for DC voltage in accordance with in-house procedure TPD037 over the following ranges:	
	0.1 mV to 1 mV	0.30 μV
	Above 1 mV to 10 mV	0.40 μV
	Above 10 mV to 100 mV	1.2 μV
	Above 100 mV to 1 V	12 μV
	Above 1 V to 10 V	0.12 mV
	Above 10 V to 100 V	1.7 mV
	Above 100 V to 1000 V	17 mV

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- DC voltage source: standard cell, solid state voltage standard, multifunction calibrator	Calibration for DC voltage in accordance with in-house procedure TPD095 at the following values:	
	100 mV to 1 V	40 nV to 0.40 µV
	Above 1 V to 10 V	0.40 µV to 4.0 µV
	Above 10 V to 100 V	4.0 µV to 40 µV
	Above 100 V to 1000 V	40 µV to 0.44 mV
- DC high voltage source: DC kilovolt source	Calibration for DC voltage in accordance with in-house procedure TPD102 over the following ranges:	
	1 kV to 30 kV	0.042 V to 1.3 V
	Above 30 kV to 100 kV	1.3 V to 4.2 V
	Calibration for DC voltage in accordance with in-house procedure TPD112 over the following ranges:	
	1 kV to 10 kV	0.04 V to 0.40 V
	Above 10 kV to 50 kV	0.28 V to 1.4 V
	Above 50 kV to 100 kV	1.9 V to 3.7 V

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- DC voltmeter: nanovoltmeter, microvoltmeter, DC voltmeter, multimeter, multifunction transfer standard	Calibration for DC voltage in accordance with in-house procedure TPD007 over the following ranges:	
	1 μV to 20 mV	0.12 μV
	Above 20 mV to 200 mV	0.24 μV
	Above 200 mV to 2 V	0.30 μV to 3.0 μV
	Calibration for DC voltage in accordance with in-house procedure TPD016 over the following range:	
	2 V to 1000 V	3.0 μV to 1.2 mV
	Calibration for DC voltage in accordance with in-house procedure TPL038 over the following ranges:	
	100 mV to 200 mV	1.6 μV to 3.2 μV
	Above 200 mV to 2 V	2.4 μV to 24 μV
	Above 2 V to 1000 V	26 μV to 13 mV
	On-site calibration for DC voltage in accordance with in-house procedure TPL038 over the following ranges:	
	100 mV to 200 mV	1.6 μV to 3.2 μV
	Above 200 mV to 2 V	2.4 μV to 24 μV
	Above 2 V to 1000 V	26 μV to 13 mV

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED[@]** 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- DC high voltage meter: DC kilovoltmeter, dedicated setup for high voltage	Calibration for DC voltage in accordance with in-house procedure TPD102 over the following ranges:	
	1 kV to 30 kV	0.042 V to 1.3 V
	Above 30 kV to 100 kV	1.3 V to 4.2 V
	Calibration for DC voltage in accordance with in-house procedure TPD112 over the following ranges:	
	1 kV to 10 kV	0.04 V to 0.40 V
	Above 10 kV to 50 kV	0.28 V to 1.4 V
	Above 50 kV to 100 kV	1.9 V to 3.7 V

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism(cont'd)		
- DC & LF measurements		
- DC voltage ratio device: resistive divider, ratio meter	Calibration for DC voltage ratio in accordance with in-house procedure TPD038 over the following ranges:	
	20 V: 10 V to 100 V: 10 V	0.25×10^{-6}
	100 V: 10 V	0.40×10^{-6}
	200 V: 10 V to 1000 V: 10 V	0.55×10^{-6}
	800 V: 10 V	0.60×10^{-6}
	900 V: 10 V	0.70×10^{-6}
	1000 V: 10 V	0.80×10^{-6}
	2 V: 1 V to 5 V: 1 V	0.30×10^{-6}
	10 V: 1 V	0.45×10^{-6}
	20 V: 1 V to 50 V: 1 V	0.50×10^{-6}
	100 V: 1 V	0.55×10^{-6}
	200 V: 1 V to 700 V: 1 V	0.65×10^{-6}
	800 V: 1 V	0.70×10^{-6}
	900 V: 1 V	0.80×10^{-6}
	1000 V: 1 V	0.90×10^{-6}
	Calibration for DC voltage ratio in accordance with in-house procedure TPD048 over the following ranges:	
	20 V: 10 V to 100 V: 10 V	0.20×10^{-6}
	200 V: 10 V to 1000 V: 10 V	0.40×10^{-6}
- DC voltage ratio device for input voltage from 1 V to 100 V: voltage ratio divider, voltage ratio box	Calibration for DC voltage ratio in accordance with in-house procedure TPD022 over the following ranges:	
	0.00001 to 0.0001	0.90×10^{-6}
	Above 0.0001 to 0.001	0.90×10^{-6}
	Above 0.001 to 0.01	0.95×10^{-6}
	Above 0.01 to 0.1	0.82×10^{-6}
	Above 0.1 to 1	0.87×10^{-6}

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- DC resistance standard and source: fixed resistor, resistance box, three-terminal resistor	Calibration for DC resistance by direct or indirect comparison with the Quantised Hall resistance standard in accordance with in-house procedure TPD217 at the following values:	
	1 Ω	0.025 μΩ
	10 Ω	0.25 μΩ
	25 Ω	0.63 μΩ
	100 Ω	2.5 μΩ
	1 kΩ	25 μΩ
	10 kΩ	0.25 mΩ
	Calibration for DC resistance in accordance with in-house procedure TPD033 at the following values:	
	100 mΩ	94 nΩ
	1 Ω	0.30 μΩ
	10 Ω	3.0 μΩ
	100 Ω	30 μΩ
	1 kΩ	0.30 mΩ
	10 kΩ	3.0 mΩ
	100 kΩ	50 mΩ
	Calibration for DC resistance in accordance with in-house procedure TPD403 at the following values:	
	1 Ω to 10 Ω	0.18 μΩ to 1.4 μΩ
	Above 10 Ω to 100 Ω	1.4 μΩ to 12 μΩ
	Above 100 Ω to 1 k Ω	12 μΩ to 0.10 mΩ
	Above 1 kΩ to 10 k Ω	0.10 mΩ to 1.2 mΩ

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- DC resistance standard and source: fixed resistor, resistance box, three-terminal resistor	Calibration for DC resistance in accordance with in-house procedure TPD040 over the following ranges:	
	0.1 Ω to 1 Ω	0.14 μΩ to 1.4 μΩ
	Above 1 Ω to 10 Ω	0.46 μΩ to 4.6 μΩ
	Above 10 Ω to 100 Ω	4.2 μΩ to 42 μΩ
	Above 100 Ω to 1 kΩ	46 μΩ to 0.46 mΩ
	Above 1 kΩ to 100 kΩ	6.8 mΩ to 0.68 Ω
	Calibration for DC resistance in accordance with in-house procedure TPD405 at the following values:	
	1 Ω to 10 Ω	0.23 μΩ to 2.3 μΩ
	Above 10 Ω to 100 Ω	2.3 μΩ to 23 μΩ
	Above 100 Ω to 1 k Ω	23 μΩ to 0.23 mΩ
	Above 1 kΩ to 10 k Ω	0.23 mΩ to 2.3 mΩ
	Calibration for DC resistance in accordance with in-house procedure TPD006 at the following values or over the following range:	
	1 kΩ	6.8 mΩ
	10 kΩ	68 mΩ
	100 kΩ	0.68 Ω
	1 MΩ	6.8 Ω
	10 MΩ	68 Ω
	100 MΩ	0.68 kΩ
	1 kΩ to 100 kΩ	6.8 mΩ to 0.68 Ω

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- DC resistance standard and source: fixed resistor, resistance box, three-terminal resistor	Calibration for DC resistance in accordance with in-house procedure TPD005 at the following values:	
	1 MΩ	1.0 Ω
	10 MΩ	10 Ω
	100 MΩ	0.50 kΩ
	Calibration for DC resistance in accordance with in-house procedure TPD025 over the following ranges:	
	100 MΩ to 10 GΩ	4.6 kΩ to 0.46 MΩ
	Above 10 GΩ to 100 GΩ	0.78 MΩ to 7.8 MΩ
	Above 100 GΩ to 1 TΩ	57 MΩ to 0.57 GΩ
	Above 1 TΩ to 10 TΩ	1.4 GΩ to 14 GΩ

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- DC resistance standard for high current: DC shunt	Calibration for DC resistance in accordance with in-house procedure TPD015 at the following values or over the following ranges:	
	1 mΩ	3.1 nΩ
	10 mΩ	19 nΩ
	100 mΩ	0.15 μΩ
	0.1 mΩ to 1 mΩ	0.39 nΩ to 3.9 nΩ
	Above 1 mΩ to 10 mΩ	3.9 nΩ to 19 nΩ
	Above 10 mΩ to 100 mΩ	19 nΩ to 0.15 μΩ
	Above 0.1 Ω to 1 Ω	0.15 μΩ to 1.4 μΩ
	Calibration for DC resistance in accordance with in-house procedure TPD035 at the following values or over the following ranges:	
	1 mΩ	3.1 nΩ
	10 mΩ	19 nΩ
	100 mΩ	0.15 μΩ
	0.1 mΩ to 1 mΩ	0.39 nΩ to 3.9 nΩ
	Above 1 mΩ to 10 mΩ	3.9 nΩ to 19 nΩ
	Above 10 mΩ to 100 mΩ	19 nΩ to 0.15 μΩ
	Above 0.1 Ω to 1 Ω	0.15 μΩ to 1.4 μΩ
	Calibration for DC resistance in accordance with in-house procedure TPD407 at the following values:	
	1 mΩ to 10 mΩ	1.6 nΩ to 16 nΩ
	Above 10 mΩ to 100 mΩ	16 nΩ to 0.17 μΩ

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC resistance standard and source: multifunction calibrator	Calibration for DC resistance in accordance with in-house procedure TPD037 at the following values or over the following ranges:	
	1 Ω	30 μΩ
	10 Ω	50 μΩ
	100 Ω	0.50 mΩ
	1 kΩ	1.0 mΩ
	10 kΩ	30 mΩ
	100 kΩ	0.30 Ω
	1 MΩ	3.0 Ω
	10 MΩ	30 Ω
	100 MΩ	3.0 kΩ
	1 GΩ	80 kΩ
	1 Ω to 10 Ω	30 μΩ to 50 μΩ
	Above 10 Ω to 100 Ω	50 μΩ to 0.50 mΩ
	Above 100 Ω to 1.0 kΩ	0.50 mΩ to 3.0 mΩ
	Above 1.0 kΩ to 100 kΩ	3.0 mΩ to 0.40 Ω
	Above 100 kΩ to 1 MΩ	0.40 Ω to 3.0 Ω
	Above 1 MΩ to 10 MΩ	3.0 Ω to 30 Ω
	Above 10 MΩ to 100 MΩ	30 Ω to 3.0 kΩ
	Above 100 MΩ to 1 GΩ	3.0 kΩ to 0.1 MΩ

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC resistance standard and source: multifunction calibrator	Calibration for DC resistance in accordance with in-house procedure TPD046 at the following values or over the following ranges:	
	1 Ω	30 μΩ
	10 Ω	50 μΩ
	100 Ω	0.50 mΩ
	1 kΩ	1.0 mΩ
	10 kΩ	0.030 Ω
	100 kΩ	0.30 Ω
	1 MΩ	3.0 Ω
	10 MΩ	30 Ω
	100 MΩ	3.0 kΩ
	1 Ω to 10 Ω	30 μΩ to 50 μΩ
	Above 10 Ω to 100 Ω	50 μΩ to 0.50 mΩ
	Above 100 Ω to 1.9 kΩ	0.50 mΩ to 3.0 mΩ
	Above 1.9 kΩ to 190 kΩ	3.0 mΩ to 0.40 Ω
	Above 190 kΩ to 1 MΩ	0.40 Ω to 3.0 Ω
	Above 1 MΩ to 10 MΩ	3.0 Ω to 30 Ω
	Above 10 MΩ to 100 MΩ	30 Ω to 3.0 kΩ

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- DC resistance meter: multimeter, multifunction transfer standard, resistance bridge, microohmmeter, ohmmeter, teraohmmeter	Calibration for DC resistance in accordance with in-house procedure TPD004 over the following ranges:	
	1 mΩ to 10 mΩ	1.2 μΩ
	Above 10 mΩ to 100 mΩ	1.2 μΩ
	Above 100 mΩ to 1 Ω	1.2 μΩ to 1.5 μΩ
	Above 1 Ω to 10 Ω	1.5 μΩ to 10 μΩ
	Above 10 Ω to 100 Ω	10 μΩ to 0.10 mΩ
	Above 100 Ω to 1 kΩ	0.10 mΩ to 1.0 mΩ
	Calibration for DC resistance in accordance with in-house procedure TPD040 over the following ranges:	
	100 mΩ to 1 Ω	1.2 μΩ to 1.5 μΩ
	Above 1 Ω to 10 Ω	1.5 μΩ to 10 μΩ
	Above 10 Ω to 100 Ω	10 μΩ to 0.10 mΩ
	Above 100 Ω to 1 kΩ	0.10 mΩ to 1.0 mΩ
	Above 1 kΩ to 10 kΩ	1.0 mΩ to 10 mΩ
	Above 10 kΩ to 100 kΩ	10 mΩ to 0.10 Ω
	Calibration for DC resistance in accordance with in-house procedure TPL038 at the following values:	
	10 Ω	0.50 mΩ
	100 Ω	2.0 mΩ
	1 kΩ	0.020 Ω
	10 kΩ	0.20 Ω
	100 kΩ	2.0 Ω
	1 MΩ	0.020 kΩ
	10 MΩ	0.50 kΩ
	100 MΩ	50 kΩ

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- DC resistance meter: multimeter, multifunction transfer standard, resistance bridge, microohmmeter, ohmmeter, teraohmmeter	On-site calibration for DC resistance in accordance with in-house procedure TPL038 at the following values:	
	10 Ω	0.50 mΩ
	100 Ω	2.0 mΩ
	1 kΩ	0.020 Ω
	10 kΩ	0.20 Ω
	100 kΩ	2.0 Ω
	1 MΩ	0.020 kΩ
	10 MΩ	0.50 kΩ
	100 MΩ	50 kΩ
	Calibration for DC resistance in accordance with in-house procedure TPD006 over the following range:	
	1 kΩ to 100 MΩ	6.8 mΩ to 0.68 kΩ
	Calibration for DC resistance in accordance with in-house procedure TPD025 over the following ranges:	
	Above 100 MΩ to 1000 MΩ	5.0 kΩ to 50 kΩ
	Above 1 GΩ to 10 GΩ	50 kΩ to 6.0 MΩ
	Above 10 GΩ to 100 GΩ	6.0 MΩ to 10 MΩ
	Above 100 GΩ to 1 TΩ	90 MΩ to 0.90 GΩ
	Above 1 TΩ to 10 TΩ	1.4 GΩ to 31 GΩ

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- Loop impedance tester	Calibration for the following parameters in accordance with in-house procedure TPD078:	
	- Loop impedance	
	0.35 Ω to below 0.9 Ω	42 mΩ
	0.9 Ω to below 1.7 Ω	55 mΩ
	1.7 Ω to below 4.7 Ω	0.12 Ω
	4.7 Ω to below 17 Ω	0.23 Ω
	17 Ω to below 47 Ω	0.50 Ω
	47 Ω to below 90 Ω	0.70 Ω
	90 Ω to below 170 Ω	0.80 Ω
	170 Ω to below 470 Ω	1.2 Ω
	470 Ω to below 900 Ω	2.6 Ω
	900 Ω to below 1.7 kΩ	5.0 Ω
	1.7 kΩ	10 Ω
- Insulation resistance tester	Calibration for the following parameters in accordance with in-house procedure TPD036:	
	- insulation resistance over the following ranges:	
	0.1 MΩ to 1 MΩ	6.0 kΩ to 13 kΩ
	Above 1 MΩ to 10 MΩ	13 kΩ to 0.13 MΩ
	Above 10 MΩ to 100 MΩ	0.13 MΩ to 1.3 MΩ
	Above 100 MΩ to 1 GΩ	1.3 MΩ to 12 MΩ
	Above 1 GΩ to 10 GΩ	12 MΩ to 67 MΩ
	Above 10 GΩ to 100 GΩ	67 MΩ to 0.67 GΩ
	Above 100 GΩ to 600 GΩ	0.67 GΩ to 4.0 GΩ
	- DC output voltage over the following ranges:	
	100 V to 1 kV	12 mV to 59 mV
	Above 1 kV to 10 kV	53 V to 156 V

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- DC current source: current generator, multifunction calibrator	Calibration for DC current in accordance with in-house procedure TPD058 at the following values or over the following ranges:	
	0.1 pA	0.30 fA
	1 pA	1.0 fA
	10 pA	5.0 fA
	100 pA	20 fA
	0.1 pA to 1 pA	0.4 fA to 4.0 fA
	Above 1 pA to 10 pA	1.0 fA to 10 fA
	Above 10 pA to 100 pA	5.0 fA to 40 fA
	Calibration for DC current in accordance with in-house procedure TPD088 at the following values or over the following ranges:	
	1 pA to below 10 pA	0.8 fA
	10 pA to below 100 pA	0.8 fA
	100 pA	2.0 fA
	Calibration for DC current in accordance with in-house procedure TPD076 over the following ranges:	
	0.1 nA to 1 nA	38 fA to 0.38 pA
	Above 1 nA to 10 nA	0.15 pA to 1.5 pA
	Above 10 nA to 100 nA	1.5 pA to 15 pA

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- DC current source: current generator, multifunction calibrator	Calibration for DC current by measuring voltage-drop with standard resistor and reference multimeter in accordance with in-house procedure TPD008 over the following ranges:	
	0.1 μA to 1 μA	0.89 pA to 3.2 pA
	Above 1 μA to 10 μA	2.2 pA to 9.8 pA
	Above 10 μA to 100 μA	18 pA to 90 pA
	Above 0.1 mA to 1 mA	0.18 nA to 0.90 nA
	Above 1 mA to 10 mA	1.8 nA to 9.0 nA
	Above 10 mA to 100 mA	18 nA to 0.20 μA
	Above 0.1 A to 1 A	0.59 μA to 5.9 μA
	Above 1 A to 10 A	2.9 μA to 26 μA
	Above 10 A to 20 A	35 μA to 72 μA
	Above 20 A to 30 A	72 μA to 0.13 mA
	Above 30 A to 100 A	0.60 mA to 1.7 mA
	Calibration for DC current by direct measurement using reference multimeter in accordance with in-house procedure TPD037 over the following ranges:	
	0.1 mA to 1 mA	0.18 nA to 0.90 nA
	Above 1 mA to 10 mA	1.8 nA to 9.0 nA
	Above 10 mA to 100 mA	18 nA to 0.20 μA
	Above 0.1 A to 1 A	0.59 μA to 5.9 μA
	On-site calibration for DC current by direct measurement using reference multimeter in accordance with in-house procedure TPD037 over the following ranges:	
	0.1 mA to 1 mA	18 nA to 0.18 μA
	Above 1 mA to 10 mA	0.18 μA to 1.8 μA
	Above 10 mA to 100 mA	1.8 μA to 18 μA
	Above 0.1 A to 1 A	29 μA to 0.29 mA

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- DC current meter: multimeter, picoammeter, nanoammeter, multifunction transfer standard, current comparator, current transducer, dedicated equipment for heavy current measurement	Calibration for DC current in accordance with in-house procedure TPD056 at the following values or over the following ranges: 0.1 pA 1 pA 10 pA 100 pA 0.1 pA to 1 pA Above 1 pA to 10 pA Above 10 pA to 100 pA Calibration for DC current in accordance with in-house procedure TPD086 at the following value or over the following ranges: 1 pA to below 10 pA 10 pA to below 100 pA 100 pA Calibration for DC current in accordance with in-house procedure TPD076 over the following ranges: 0.1 nA to 1 nA Above 1 nA to 10 nA Above 10 nA to 100 nA	 0.30 fA 1.0 fA 5.0 fA 11 fA 0.30 fA to 3.0 fA 1.0 fA to 5.0 fA 5.0 fA to 30 fA 0.3 fA 0.3 fA 0.9 fA 36 fA to 0.36 pA 0.14 pA to 1.4 pA 0.8 pA to 8 pA

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- DC current meter: multimeter, picoammeter, nanoammeter, multifunction transfer standard, current comparator, current transducer, dedicated equipment for heavy current measurement	Calibration for DC current by measuring voltage-drop with standard resistor and reference multimeter in accordance with in-house procedure TPD008 over the following ranges:	
	0.1 μA to 1 μA	5 pA to 25 pA
	Above 1 μA to 10 μA	25 pA to 30 pA
	Above 10 μA to 100 μA	0.030 nA to 0.30 nA
	Above 0.1 mA to 1 mA	0.30 nA to 3.0 nA
	Above 1 mA to 10 mA	3.0 nA to 30 nA
	Above 10 mA to 100 mA	30 nA to 0.30 μA
	Above 0.1 A to 1 A	1.0 μA to 10 μA
	Above 1 A to 10 A	10 μA to 0.10 mA
	Above 10 A to 20 A	0.10 mA to 0.40 mA
	Above 20 A to 30 A	0.40 mA to 0.90 mA
	Above 30 A to 100 A	0.90 mA to 4.5 mA

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- DC current meter: multimeter, picoammeter, nanoammeter, multifunction transfer standard, current comparator, current transducer, dedicated equipment for heavy current measurement	Calibration for DC current by direct measurement using multi-function calibrator in accordance with in-house procedure TPD045 over the following ranges:	
	10 μA to 100 μA	0.030 nA to 0.30 nA
	Above 0.1 mA to 1 mA	0.30 nA to 3.0 nA
	Above 1 mA to 10 mA	3.0 nA to 30 nA
	Above 10 mA to 100 mA	30 nA to 0.30 μA
	Above 0.1 A to 1 A	1.0 μA to 10 μA
	Calibration for DC current by direct measurement using multi-function calibrator in accordance with in-house procedure TPL038 over the following ranges:	
	100 μA to 200 μA	15 nA to 30 nA
	Above 0.2 mA to 2 mA	20 nA to 0.20 μA
	Above 2 mA to 20 mA	0.20 μA to 2.0 μA
	Above 20 mA to 200 mA	2.0 μA to 20 μA
	Above 0.2 A to 2 A	40 μA to 0.40 mA
	On-site calibration for DC current by direct measurement using multi-function calibrator in accordance with in-house procedure TPL038 over the following ranges:	
	100 μA to 200 μA	15 nA to 30 nA
	Above 0.2 mA to 2 mA	20 nA to 0.20 μA
	Above 2 mA to 20 mA	0.20 μA to 2.0 μA
	Above 20 mA to 200 mA	2.0 μA to 20 μA
	Above 200 mA to 2 A	40 μA to 0.40 mA

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED[@]** 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- DC current meter, clamp meter	Calibration for DC current in accordance with in-house procedure TPL146 over the following ranges:	
	100 A to 400 A	1.2 A
	Above 400 A to 600 A	2.0 A
	Above 600 A to 1300 A	3.0 A
	Above 1300 A to 1500 A	4.0 A
	Above 1500 A to 1700 A	6.0 A
	Above 1700 A to 1800 A	8.0 A
	Above 1800 A to 1900 A	10 A
	Above 1900 A to 2000 A	12 A

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- DC power source	On-site calibration for DC power in accordance with in-house procedure TPD081 over the following range:	
	Voltage: 1 V to 1 kV Current: 0.1 A to 100 A Power: 0.1 W to 20 kW	30 μW/W
	Calibration for DC power in accordance with in-house procedure TPD081 over the following range:	
	Voltage: 1 V to 1 kV Current: 0.1 A to 100 A Power: 0.1 W to 20 kW	30 μW/W
- DC power meter	Calibration for DC power in accordance with in-house procedure TPD080 over the following ranges:	
	Voltage: 1 V to 1 kV Current: 0.1 A to 100 A Power: 0.1 W to 1 W	70 μW
	Above 1 W to 10 kW	70 μW to 0.70 W
	Above 10 kW to 20 kW	0.70 W

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC high voltage source: AC high voltage generator	Calibration for AC voltage at 50 Hz in accordance with in-house procedure TPD103 over the following ranges:	
	1 kV to 11 kV	0.26 V to 2.9 V
	Calibration for AC voltage at 50 Hz in accordance with in-house procedure TPD105 over the following ranges:	
	Above 11 kV to 30 kV	5.1 V to 14 V
	Above 30 kV to 44 kV	26 V to 38 V
- AC high voltage meter: AC high voltage meters, dedicated setup for high voltage measurement	Calibration for AC voltage at 50 Hz in accordance with in-house procedure TPD103 over the following ranges:	
	1 kV to 11 kV	0.26 V to 2.9 V
	Calibration for AC voltage at 50 Hz in accordance with in-house procedure TPD105 over the following ranges:	
	Above 11 kV to 30 kV	5.1 V to 14 V
	Above 30 kV to 44 kV	27 V to 40 V

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC voltage generator/source	Calibration for AC voltage in accordance with in-house procedure TPL017 at the following values:	
	40 Hz, 1 kHz, 10 kHz, 20 kHz	
	0.1 mV	3000 µV/V
	0.2 mV	1000 µV/V
	0.5 mV	1000 µV/V
	1 mV	300 µV/V
	2 mV	200 µV/V
	5 mV	60 µV/V
	10 mV	40 µV/V
	20 mV	30 µV/V
	50 mV	20 µV/V
	100 mV	13 µV/V
	200 mV	13 µV/V
	50 kHz	
	0.1 mV	3000 µV/V
	0.2 mV	1000 µV/V
	0.5 mV	1000 µV/V
	1 mV	300 µV/V
	2 mV	200 µV/V
	5 mV	120 µV/V
	10 mV	40 µV/V
	20 mV	40 µV/V
	50 mV	30 µV/V
	100 mV	19 µV/V
	200 mV	19 µV/V

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC voltage generator/source	Calibration for AC voltage in accordance with in-house procedure TPL017 at the following values or over the following ranges:	
	100 kHz	
	0.1 mV	4000 μV/V
	0.2 mV	4000 μV/V
	0.5 mV	4000 μV/V
	1 mV	400 μV/V
	2 mV	400 μV/V
	5 mV	340 μV/V
	10 mV	70 μV/V
	20 mV	70 μV/V
	50 mV	60 μV/V
	100 mV	48 μV/V
	200 mV	48 μV/V
	40 Hz to 20 kHz	
	0.1 mV to 1 mV	3000 μV/V
	Above 1 mV to 10 mV	300 μV/V
	Above 10 mV to 250 mV	70 μV/V
	20 kHz to 50 kHz	
	0.1 mV to 1 mV	3000 μV/V
	Above 1 mV to 10 mV	300 μV/V
	Above 10 mV to 250 mV	110 μV/V
	50 kHz to 100 kHz	
	0.1 mV to 1 mV	4000 μV/V
	Above 1 mV to 10 mV	500 μV/V
	Above 10 mV to 250 mV	220 μV/V

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED[@]** 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC voltage generator/source	On-site calibration for AC voltage in accordance with in-house procedure TPL017 over the following ranges:	
	40 Hz to 20 kHz	
	0.1 mV to 1 mV	3000 μV/V
	Above 1 mV to 10 mV	300 μV/V
	Above 10 mV to 250 mV	70 μV/V
	20 kHz to 50 kHz	
	0.1 mV to 1 mV	3000 μV/V
	Above 1 mV to 10 mV	300 μV/V
	Above 10 mV to 250 mV	110 μV/V
	50 kHz to 100 kHz	
	0.1 mV to 1 mV	4000 μV/V
	Above 1 mV to 10 mV	500 μV/V
	Above 10 mV to 250 mV	220 μV/V

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC voltage generator/source	Calibration for AC voltage by comparison with AC/DC thermal converter in accordance with in-house procedure TPL023 at the following values:	
	20 Hz	
	0.5 V	14 µV/V
	1 V	10 µV/V
	2 V	12 µV/V
	3 V	11 µV/V
	5 V	10 µV/V
	10 V	12 µV/V
	20 V	14 µV/V
	50 V	13 µV/V
	100 V	12 µV/V
	200 V	13 µV/V
	500 V	18 µV/V
	40 Hz	
	0.5 V	13 µV/V
	1 V	10 µV/V
	2 V	11 µV/V
	3 V	12 µV/V
	5 V	10 µV/V
	10 V	13 µV/V
	20 V	12 µV/V
	50 V	13 µV/V
	100 V	13 µV/V
	200 V	16 µV/V
	500 V	18 µV/V
	700 V	20 µV/V
	1000 V	20 µV/V

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED[@]** 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC voltage generator/source	Calibration for AC voltage by comparison with AC/DC thermal converter in accordance with in-house procedure TPL023 at the following values:	
	1 kHz	
	0.5 V	13 µV/V
	1 V	10 µV/V
	2 V	13 µV/V
	3 V	10 µV/V
	5 V	10 µV/V
	10 V	12 µV/V
	20 V	12 µV/V
	50 V	12 µV/V
	100 V	12 µV/V
	200 V	13 µV/V
	500 V	17 µV/V
	700 V	18 µV/V
	1000 V	13 µV/V
	10 kHz	
	0.5 V	12 µV/V
	1 V	10 µV/V
	2 V	10 µV/V
	3 V	10 µV/V
	5 V	10 µV/V
	10 V	13 µV/V
	20 V	14 µV/V
	50 V	12 µV/V
	100 V	12 µV/V
	200 V	13 µV/V
	500 V	16 µV/V
	700 V	19 µV/V
	1000 V	16 µV/V

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC voltage generator/source	Calibration for AC voltage by comparison with AC/DC thermal converter in accordance with in-house procedure TPL023 at the following values:	
	20 kHz	
	0.5 V	15 µV/V
	1 V	10 µV/V
	2 V	10 µV/V
	3 V	10 µV/V
	5 V	10 µV/V
	10 V	12 µV/V
	20 V	12 µV/V
	50 V	12 µV/V
	100 V	12 µV/V
	200 V	19 µV/V
	500 V	22 µV/V
	700 V	30 µV/V
	1000 V	28 µV/V
	30 kHz	
	100 V	12 µV/V
	200 V	19 µV/V
	500 V	30 µV/V
	700 V	36 µV/V
	1000 V	37 µV/V
	50 kHz	
	0.5 V	14 µV/V
	1 V	12 µV/V
	2 V	11 µV/V
	3 V	11 µV/V
	5 V	11 µV/V
	10 V	12 µV/V
	20 V	12 µV/V
	50 V	12 µV/V
	100 V	13 µV/V
	200 V	24 µV/V
	500 V	34 µV/V
	700 V	45 µV/V

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC voltage generator/source	Calibration for AC voltage by comparison with AC/DC thermal converter in accordance with in-house procedure TPL023 at the following values:	
	100 kHz	
	0.5 V	18 μV/V
	1 V	15 μV/V
	2 V	14 μV/V
	3 V	12 μV/V
	5 V	12 μV/V
	10 V	12 μV/V
	20 V	13 μV/V
	50 V	16 μV/V
	100 V	16 μV/V
	200 V	44 μV/V
	500 V	65 μV/V
	700 V	85 μV/V
	300 kHz	
	0.5 V	42 μV/V
	1 V	32 μV/V
	2 V	28 μV/V
	3 V	25 μV/V
	5 V	22 μV/V
	10 V	22 μV/V
	20 V	23 μV/V
	500 kHz	
	0.5 V	160 μV/V
	1 V	150 μV/V
	2 V	150 μV/V
	3 V	150 μV/V
	5 V	150 μV/V
	10 V	150 μV/V
	20 V	150 μV/V

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC voltage generator/source	Calibration for AC voltage by comparison with AC/DC thermal converter in accordance with in-house procedure TPL023 at the following values or over the following ranges:	
	1 MHz	
	0.5 V	500 μV/V
	1 V	500 μV/V
	2 V	500 μV/V
	3 V	500 μV/V
	5 V	500 μV/V
	10 V	500 μV/V
	20 V	500 μV/V
	40 Hz to 20 kHz	
	0.2 V to 1000 V	70 μV/V to 90 μV/V
	20 kHz to 50 kHz	
	0.2 V to 1000 V	90 μV/V to 130 μV/V
	50 kHz to 100 kHz	
	0.2 V to 700 V	170 μV/V to 400 μV/V
	100 kHz to 300 kHz	
	0.2 V to 0.6 V	900 μV/V
	Above 0.6 V to 20 V	230 μV/V
	300 kHz to 500 kHz	
	0.2 V to 0.6 V	1700 μV/V
	Above 0.6 V to 6 V	500 μV/V
	Above 6 V to 20 V	600 μV/V
	500 kHz to 1 MHz	
	0.2 V to 0.6 V	2900 μV/V
	Above 0.6 V to 20 V	1200 μV/V

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC voltage generator/source	Calibration for AC voltage by direct measurement in accordance with in-house procedure TPL030 at the following values:	
	20 Hz	
	0.5 V	15 μV/V
	1 V	13 μV/V
	2 V	15 μV/V
	5 V	12 μV/V
	10 V	13 μV/V
	20 V	14 μV/V
	50 V	20 μV/V
	100 V	18 μV/V
	200 V	20 μV/V
	500 V	18 μV/V
	40 Hz	
	1 mV	500 μV/V
	2 mV	300 μV/V
	5 mV	100 μV/V
	10 mV	50 μV/V
	20 mV	30 μV/V
	50 mV	35 μV/V
	100 mV	15 μV/V
	200 mV	15 μV/V
	0.5 V	15 μV/V
	1 V	11 μV/V
	2 V	13 μV/V
	5 V	12 μV/V
	10 V	13 μV/V
	20 V	13 μV/V
	50 V	15 μV/V
	100 V	16 μV/V
	200 V	16 μV/V
	500 V	18 μV/V
	700 V	20 μV/V
	1000 V	20 μV/V

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC voltage generator/source	Calibration for AC voltage by direct measurement in accordance with in-house procedure TPL030 at the following values:	
	1 kHz	
	1 mV	500 μV/V
	2 mV	300 μV/V
	5 mV	100 μV/V
	10 mV	50 μV/V
	20 mV	30 μV/V
	50 mV	30 μV/V
	100 mV	15 μV/V
	200 mV	15 μV/V
	0.5 V	15 μV/V
	1 V	11 μV/V
	2 V	13 μV/V
	5 V	12 μV/V
	10 V	13 μV/V
	20 V	13 μV/V
	50 V	15 μV/V
	100 V	16 μV/V
	200 V	15 μV/V
	500 V	18 μV/V
	700 V	20 μV/V
	1000 V	20 μV/V

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC voltage generator/source	Calibration for AC voltage by direct measurement in accordance with in-house procedure TPL030 at the following values:	
	10 kHz	
	1 mV	500 µV/V
	2 mV	300 µV/V
	5 mV	100 µV/V
	10 mV	50 µV/V
	20 mV	30 µV/V
	50 mV	30 µV/V
	100 mV	15 µV/V
	200 mV	15 µV/V
	0.5 V	15 µV/V
	1 V	11 µV/V
	2 V	12 µV/V
	5 V	12 µV/V
	10 V	13 µV/V
	20 V	14 µV/V
	50 V	15 µV/V
	100 V	16 µV/V
	200 V	15 µV/V
	500 V	18 µV/V
	700 V	20 µV/V
	1000 V	20 µV/V

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC voltage generator/source	Calibration for AC voltage by direct measurement in accordance with in-house procedure TPL030 at the following values:	
	20 kHz	
	1 mV	500 µV/V
	2 mV	300 µV/V
	5 mV	100 µV/V
	10 mV	50 µV/V
	20 mV	30 µV/V
	50 mV	30 µV/V
	100 mV	15 µV/V
	200 mV	15 µV/V
	0.5 V	15 µV/V
	1 V	11 µV/V
	2 V	12 µV/V
	5 V	12 µV/V
	10 V	13 µV/V
	20 V	13 µV/V
	50 V	15 µV/V
	100 V	16 µV/V
	200 V	19 µV/V
	500 V	25 µV/V
	700 V	30 µV/V
	1000 V	30 µV/V
	30 kHz	
	100 V	16 µV/V
	200 V	19 µV/V
	500 V	30 µV/V
	700 V	40 µV/V
	1000 V	42 µV/V

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC voltage generator/source	Calibration for AC voltage by direct measurement in accordance with in-house procedure TPL030 at the following values:	
	50 kHz	
	1 mV	500 μV/V
	2 mV	300 μV/V
	5 mV	200 μV/V
	10 mV	80 μV/V
	20 mV	50 μV/V
	50 mV	40 μV/V
	100 mV	25 μV/V
	200 mV	25 μV/V
	0.5 V	15 μV/V
	1 V	13 μV/V
	2 V	13 μV/V
	5 V	12 μV/V
	10 V	14 μV/V
	20 V	14 μV/V
	50 V	15 μV/V
	100 V	20 μV/V
	200 V	24 μV/V
	500 V	40 μV/V
	700 V	50 μV/V

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC voltage generator/source	Calibration for AC voltage by direct measurement in accordance with in-house procedure TPL030 at the following values:	
	100 kHz	
	1 mV	600 µV/V
	2 mV	500 µV/V
	5 mV	300 µV/V
	10 mV	100 µV/V
	20 mV	100 µV/V
	50 mV	60 µV/V
	100 mV	60 µV/V
	200 mV	60 µV/V
	0.5 V	20 µV/V
	1 V	20 µV/V
	2 V	15 µV/V
	5 V	15 µV/V
	10 V	15 µV/V
	20 V	18 µV/V
	50 V	20 µV/V
	100 V	30 µV/V
	200 V	40 µV/V
	500 V	100 µV/V
	300 kHz	
	0.5 V	45 µV/V
	1 V	40 µV/V
	2 V	40 µV/V
	3 V	40 µV/V
	5 V	40 µV/V
	10 V	40 µV/V
	20 V	40 µV/V

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC voltage generator/source	Calibration for AC voltage by direct measurement in accordance with in-house procedure TPL030 at the following values or over the following ranges:	
	500 kHz	
	0.5 V	160 µV/V
	1 V	150 µV/V
	2 V	150 µV/V
	3 V	150 µV/V
	5 V	150 µV/V
	10 V	150 µV/V
	20 V	150 µV/V
	1 MHz	
	0.5 V	500 µV/V
	1 V	500 µV/V
	2 V	500 µV/V
	3 V	500 µV/V
	5 V	500 µV/V
	10 V	500 µV/V
	20 V	500 µV/V
	40 Hz to 20 kHz	
	1 mV to 2 mV	2000 µV/V
	Above 2 mV to 6 mV	1000 µV/V
	Above 6 mV to 20 mV	380 µV/V
	Above 20 mV to 60 mV	160 µV/V
	Above 60 mV to 200 mV	70 µV/V
	Above 200 mV to 600 mV	50 µV/V
	Above 0.6 V to 200 V	40 µV/V
	Above 200 V to 1000 V	50 µV/V

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC voltage generator/source	Calibration for AC voltage by direct measurement in accordance with in-house procedure TPL030 over the following ranges:	
	20 kHz to 50 kHz	
	1 mV to 2 mV	3200 μV/V
	Above 2 mV to 6 mV	1600 μV/V
	Above 6 mV to 20 mV	620 μV/V
	Above 20 mV to 60 mV	260 μV/V
	Above 60 mV to 200 mV	120 μV/V
	Above 200 mV to 200 V	90 μV/V
	Above 200 V to 700 V	150 μV/V
	20 kHz to 30 kHz	
	700 V to 1000 V	150 μV/V
	50 kHz to 100 kHz	
	1 mV to 2 mV	4200 μV/V
	Above 2 mV to 6 mV	2100 μV/V
	Above 6 mV to 20 mV	830 μV/V
	Above 20 mV to 60 mV	440 μV/V
	Above 60 mV to 200 mV	230 μV/V
	Above 200 mV to 200 V	170 μV/V
	Above 200 V to 600 V	580 μV/V
	100 kHz to 300 kHz	
	0.2 V to 20 V	230 μV/V
	300 kHz to 500 kHz	
	0.2 V to 20 V	500 μV/V
	500 kHz to 1 MHz	
	0.2 V to 2 V	1200 μV/V
	Above 2 V to 20 V	1400 μV/V

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC voltage generator/source	On-site calibration for AC voltage by direct measurement in accordance with in-house procedure TPL030 at the following values and ranges:	
	40 Hz to 20 kHz	
	1 mV to 2 mV	2000 μV/V
	Above 2 mV to 6 mV	1000 μV/V
	Above 6 mV to 20 mV	380 μV/V
	Above 20 mV to 60 mV	160 μV/V
	Above 60 mV to 200 mV	70 μV/V
	Above 200 mV to 600 mV	50 μV/V
	Above 0.6 V to 200 V	40 μV/V
	Above 200 V to 1000 V	50 μV/V
	20 kHz to 50 kHz	
	1 mV to 2 mV	3200 μV/V
	Above 2 mV to 6 mV	1600 μV/V
	Above 6 mV to 20 mV	620 μV/V
	Above 20 mV to 60 mV	260 μV/V
	Above 60 mV to 200 mV	120 μV/V
	Above 200 mV to 200 V	90 μV/V
	Above 200 V to 700 V	150 μV/V
	20 kHz to 30 kHz	
	700 V to 1000 V	150 μV/V
	50 kHz to 100 kHz	
	1 mV to 2 mV	4200 μV/V
	Above 2 mV to 6 mV	2100 μV/V
	Above 6 mV to 20 mV	830 μV/V
	Above 20 mV to 60 mV	440 μV/V
	Above 60 mV to 200 mV	230 μV/V
	Above 200 mV to 200 V	170 μV/V
	Above 200 V to 600 V	580 μV/V

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC voltage generator/source	On-site calibration for AC voltage by direct measurement in accordance with in-house procedure TPL030 over the following ranges:	
	100 kHz to 300 kHz	
	0.2 V to 20 V	230 μV/V
	300 kHz to 500 kHz	
	0.2 V to 20 V	500 μV/V
	500 kHz to 1 MHz	
	0.2 V to 2 V	1200 μV/V
	Above 2 V to 20 V	1400 μV/V

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC voltage generator/source	Calibration for AC voltage by direct measurement in accordance with in-house procedure TPL036 at the following values:	
	20 Hz	
	0.5 V	20 μV/V
	1 V	20 μV/V
	2 V	20 μV/V
	5 V	20 μV/V
	10 V	20 μV/V
	20 V	20 μV/V
	50 V	20 μV/V
	100 V	20 μV/V
	200 V	20 μV/V
	500 V	30 μV/V
	40 Hz	
	1 mV	500 μV/V
	2 mV	400 μV/V
	5 mV	200 μV/V
	10 mV	100 μV/V
	20 mV	60 μV/V
	50 mV	40 μV/V
	100 mV	30 μV/V
	200 mV	30 μV/V
	0.5 V	15 μV/V
	1 V	13 μV/V
	2 V	14 μV/V
	5 V	13 μV/V
	10 V	15 μV/V
	20 V	13 μV/V
	50 V	15 μV/V
	100 V	16 μV/V
	200 V	16 μV/V
	500 V	20 μV/V
	700 V	20 μV/V
	1000 V	21 μV/V

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC voltage generator/source	Calibration for AC voltage by direct measurement in accordance with in-house procedure TPL036 at the following values:	
	1 kHz	
	1 mV	500 μV/V
	2 mV	400 μV/V
	5 mV	200 μV/V
	10 mV	100 μV/V
	20 mV	60 μV/V
	50 mV	40 μV/V
	100 mV	30 μV/V
	200 mV	30 μV/V
	0.5 V	15 μV/V
	1 V	13 μV/V
	2 V	13 μV/V
	5 V	13 μV/V
	10 V	14 μV/V
	20 V	13 μV/V
	50 V	15 μV/V
	100 V	16 μV/V
	200 V	15 μV/V
	500 V	20 μV/V
	700 V	20 μV/V
	1000 V	20 μV/V

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED[@]** 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC voltage generator/source	Calibration for AC voltage by direct measurement in accordance with in-house procedure TPL036 at the following values:	
	10 kHz	
	1 mV	500 µV/V
	2 mV	400 µV/V
	5 mV	200 µV/V
	10 mV	100 µV/V
	20 mV	60 µV/V
	50 mV	40 µV/V
	100 mV	30 µV/V
	200 mV	30 µV/V
	0.5 V	15 µV/V
	1 V	13 µV/V
	2 V	12 µV/V
	5 V	13 µV/V
	10 V	14 µV/V
	20 V	14 µV/V
	50 V	15 µV/V
	100 V	16 µV/V
	200 V	15 µV/V
	500 V	25 µV/V
	700 V	25 µV/V
	1000 V	25 µV/V

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC voltage generator/source	Calibration for AC voltage by direct measurement in accordance with in-house procedure TPL036 at the following values :	
	20 kHz	
	1 mV	500 µV/V
	2 mV	400 µV/V
	5 mV	200 µV/V
	10 mV	100 µV/V
	20 mV	60 µV/V
	50 mV	40 µV/V
	100 mV	30 µV/V
	200 mV	30 µV/V
	0.5 V	15 µV/V
	1 V	13 µV/V
	2 V	12 µV/V
	5 V	13 µV/V
	10 V	14 µV/V
	20 V	13 µV/V
	50 V	15 µV/V
	100 V	16 µV/V
	200 V	19 µV/V
	500 V	30 µV/V
	700 V	35 µV/V
	1000 V	35 µV/V
	30 kHz	
	100 V	16 µV/V
	200 V	19 µV/V
	500 V	40 µV/V
	700 V	50 µV/V
	1000 V	45 µV/V

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC voltage generator/source	Calibration for AC voltage by direct measurement in accordance with in-house procedure TPL036 at the following values:	
	50 kHz	
	1 mV	700 μV/V
	2 mV	500 μV/V
	5 mV	200 μV/V
	10 mV	150 μV/V
	20 mV	80 μV/V
	50 mV	50 μV/V
	100 mV	50 μV/V
	200 mV	50 μV/V
	0.5 V	15 μV/V
	1 V	15 μV/V
	2 V	15 μV/V
	5 V	15 μV/V
	10 V	14 μV/V
	20 V	15 μV/V
	50 V	20 μV/V
	100 V	20 μV/V
	200 V	24 μV/V
	500 V	80 μV/V
	700 V	100 μV/V

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC voltage generator/source	Calibration for AC voltage by direct measurement in accordance with in-house procedure TPL036 at the following values:	
	100 kHz	
	1 mV	700 µV/V
	2 mV	500 µV/V
	5 mV	300 µV/V
	10 mV,	200 µV/V
	20 mV	100 µV/V
	50 mV	100 µV/V
	100 mV	100 µV/V
	200 mV	100 µV/V
	0.5 V	30 µV/V
	1 V	20 µV/V
	2 V	20 µV/V
	5 V	20 µV/V
	10 V	20 µV/V
	20 V	20 µV/V
	50 V	30 µV/V
	100 V	31 µV/V
	200 V	44 µV/V
	500 V	200 µV/V
	300 kHz	
	0.5 V	70 µV/V
	1 V	70 µV/V
	2 V	70 µV/V
	5 V	60 µV/V
	10 V	60 µV/V
	20 V	60 µV/V
	500 kHz	
	0.5 V	200 µV/V
	1 V	200 µV/V
	2 V	200 µV/V
	5 V	200 µV/V
	10 V	200 µV/V
	20 V	200 µV/V

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC voltage generator/source	Calibration for AC voltage by direct measurement in accordance with in-house procedure TPL036 at the following values or over the following ranges:	
	1 MHz	
	0.5 V	500 µV/V
	1 V	500 µV/V
	2 V	500 µV/V
	5 V	500 µV/V
	10 V	500 µV/V
	20 V	500 µV/V
	40 Hz to 20 kHz	
	1 mV to 2 mV	2000 µV/V
	Above 2 mV to 6 mV	1000 µV/V
	Above 6 mV to 20 mV	380 µV/V
	Above 20 mV to 60 mV	160 µV/V
	Above 60 mV to 200 mV	70 µV/V
	Above 200 mV to 600 mV	50 µV/V
	Above 0.6 V to 200 V	40 µV/V
	Above 200 V to 1000 V	50 µV/V
	20 kHz to 50 kHz	
	1 mV to 2 mV	3200 µV/V
	Above 2 mV to 6 mV	1600 µV/V
	Above 6 mV to 20 mV	620 µV/V
	Above 20 mV to 60 mV	260 µV/V
	Above 60 mV to 200 mV	120 µV/V
	Above 200 mV to 200 V	90 µV/V
	Above 200 V to 700 V	150 µV/V
	20 kHz to 30 kHz	
	700 V to 1000 V	150 µV/V

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC voltage generator/source	Calibration for AC voltage by direct measurement in accordance with in-house procedure TPL036 over the following ranges:	
	50 kHz to 100 kHz	
	1 mV to 2 mV	4200 μV/V
	Above 2 mV to 6 mV	2100 μV/V
	Above 6 mV to 20 mV	830 μV/V
	Above 20 mV to 60 mV	440 μV/V
	Above 60 mV to 200 mV	230 μV/V
	Above 200 mV to 200 V	170 μV/V
	Above 200 V to 600 V	570 μV/V
	100 kHz to 300 kHz	
	0.2 V to 20 V	230 μV/V
	300 kHz to 500 kHz	
	0.2 V to 20 V	500 μV/V
	500 kHz to 1 MHz	
	0.2 V to 2 V	1200 μV/V
	Above 2 V to 20 V	1400 μV/V
	On-site calibration for AC voltage by direct measurement in accordance with in-house procedure TPL036 over the following ranges:	
	40 Hz to 20 kHz	
	1 mV to 2 mV	2000 μV/V
	Above 2 mV to 6 mV	1000 μV/V
	Above 6 mV to 20 mV	380 μV/V
	Above 20 mV to 60 mV	160 μV/V
	Above 60 mV to 200 mV	70 μV/V
	Above 200 mV to 600 mV	50 μV/V
	Above 0.6 V to 200 V	40 μV/V
	Above 200 V to 1000 V	50 μV/V

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC voltage generator/source	On-site calibration for AC voltage by direct measurement in accordance with in-house procedure TPL036 over the following ranges:	
	20 kHz to 50 kHz	
	1 mV to 2 mV	3200 μV/V
	Above 2 mV to 6 mV	1600 μV/V
	Above 6 mV to 20 mV	620 μV/V
	Above 20 mV to 60 mV	260 μV/V
	Above 60 mV to 200 mV	120 μV/V
	Above 200 mV to 200 V	90 μV/V
	Above 200 V to 700 V	150 μV/V
	20 kHz to 30 kHz	
	700 V to 1000 V	150 μV/V
	50 kHz to 100 kHz	
	1 mV to 2 mV	4200 μV/V
	Above 2 mV to 6 mV	2100 μV/V
	Above 6 mV to 20 mV	830 μV/V
	Above 20 mV to 60 mV	440 μV/V
	Above 60 mV to 200 mV	230 μV/V
	Above 200 mV to 200 V	170 μV/V
	Above 200 V to 600 V	570 μV/V
	100 kHz to 300 kHz	
	0.2 V to 20 V	230 μV/V
	300 kHz to 500 kHz	
	0.2 V to 20 V	500 μV/V
	500 kHz to 1 MHz	
	0.2 V to 2 V	1200 μV/V
	Above 2 V to 20 V	1400 μV/V

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED[@]** 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC voltmeter	Calibration for AC voltage by comparison with AC/DC thermal converter in accordance with in-house procedure TPL033 at the following values:	
	20 Hz	
	0.5 V	15 μV/V
	1 V	11 μV/V
	2 V	13 μV/V
	5 V	11 μV/V
	10 V	13 μV/V
	20 V	14 μV/V
	50 V	13 μV/V
	100 V	15 μV/V
	200 V	16 μV/V
	500 V	18 μV/V
	40 Hz	
	0.5 V	15 μV/V
	1 V	11 μV/V
	2 V	13 μV/V
	5 V	11 μV/V
	10 V	13 μV/V
	20 V	14 μV/V
	50 V	13 μV/V
	100 V	15 μV/V
	200 V	16 μV/V
	500 V	18 μV/V
	700 V	20 μV/V
	1000 V	20 μV/V

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC voltmeter	Calibration for AC voltage by comparison with AC/DC thermal converter in accordance with in-house procedure TPL033 at the following values:	
	1 kHz	
	0.5 V	15 μV/V
	1 V	11 μV/V
	2 V	13 μV/V
	5 V	11 μV/V
	10 V	13 μV/V
	20 V	14 μV/V
	50 V	13 μV/V
	100 V	15 μV/V
	200 V	16 μV/V
	500 V	18 μV/V
	700 V	20 μV/V
	1000 V	15 μV/V
	10 kHz	
	0.5 V	15 μV/V
	1 V	11 μV/V
	2 V	13 μV/V
	5 V	11 μV/V
	10 V	13 μV/V
	20 V	14 μV/V
	50 V	13 μV/V
	100 V	15 μV/V
	200 V	16 μV/V
	500 V	18 μV/V
	700 V	20 μV/V
	1000 V	20 μV/V

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC voltmeter	Calibration for AC voltage by comparison with AC/DC thermal converter in accordance with in-house procedure TPL033 at the following values:	
	20 kHz	
	0.5 V	15 μV/V
	1 V	11 μV/V
	2 V	13 μV/V
	5 V	11 μV/V
	10 V	13 μV/V
	20 V	14 μV/V
	50 V	13 μV/V
	100 V	15 μV/V
	200 V	20 μV/V
	500 V	25 μV/V
	700 V	30 μV/V
	1000 V	30 μV/V
	30 kHz	
	100 V	15 μV/V
	200 V	20 μV/V
	500 V	30 μV/V
	700 V	40 μV/V
	1000 V	40 μV/V
	50 kHz	
	0.5 V	15 μV/V
	1 V	12 μV/V
	2 V	13 μV/V
	5 V	12 μV/V
	10 V	13 μV/V
	20 V	14 μV/V
	50 V	13 μV/V
	100 V	20 μV/V
	200 V	25 μV/V
	500 V	40 μV/V
	700 V	50 μV/V

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED[@]** 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC voltmeter	Calibration for AC voltage by comparison with AC/DC thermal converter in accordance with in-house procedure TPL033 at the following values:	
	100 kHz	
	0.5 V	20 μV/V
	1 V	15 μV/V
	2 V	15 μV/V
	5 V	15 μV/V
	10 V	15 μV/V
	20 V	15 μV/V
	50 V	20 μV/V
	100 V	30 μV/V
	200 V	45 μV/V
	500 V	100 μV/V
	300 kHz	
	0.5 V	45 μV/V
	1 V	40 μV/V
	2 V	40 μV/V
	5 V	40 μV/V
	10 V	40 μV/V
	20 V	40 μV/V
	500 kHz	
	0.5 V	65 μV/V
	1 V	50 μV/V
	2 V	50 μV/V
	5 V	50 μV/V
	10 V	50 μV/V
	20 V	50 μV/V
	1 MHz	
	0.5 V	200 μV/V
	1 V	200 μV/V
	2 V	200 μV/V
	5 V	200 μV/V
	10 V	200 μV/V
	20 V	200 μV/V

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED[@]** 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC voltmeter	Calibration for AC voltage by comparison with AC Measurement Standard in accordance with in-house procedure TPL034 at the following values:	
	20 Hz	
	0.5 V	18 μV/V
	1 V	14 μV/V
	2 V	16 μV/V
	5 V	14 μV/V
	10 V	16 μV/V
	20 V	17 μV/V
	50 V	16 μV/V
	100 V	18 μV/V
	200 V	18 μV/V
	500 V	20 μV/V
	40 Hz	
	10 mV	100 μV/V
	100 mV	30 μV/V
	200 mV	30 μV/V
	0.5 V	18 μV/V
	1 V	14 μV/V
	2 V	16 μV/V
	5 V	14 μV/V
	10 V	16 μV/V
	20 V	17 μV/V
	50 V	16 μV/V
	100 V	18 μV/V
	200 V	18 μV/V
	500 V	20 μV/V
	700 V	23 μV/V
	1000 V	22 μV/V

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC voltmeter	Calibration for AC voltage by comparison with AC Measurement Standard in accordance with in-house procedure TPL034 at the following values:	
	1 kHz	
	10 mV	100 μV/V
	100 mV	30 μV/V
	200 mV	30 μV/V
	0.5 V	18 μV/V
	1 V	14 μV/V
	2 V	16 μV/V
	5 V	14 μV/V
	10 V	16 μV/V
	20 V	17 μV/V
	50 V	16 μV/V
	100 V	18 μV/V
	200 V	18 μV/V
	500 V	20 μV/V
	700 V	23 μV/V
	1000 V	18 μV/V
	10 kHz	
	10 mV	100 μV/V
	100 mV	30 μV/V
	200 mV	30 μV/V
	0.5 V	18 μV/V
	1 V	14 μV/V
	2 V	16 μV/V
	5 V	14 μV/V
	10 V	16 μV/V
	20 V	17 μV/V
	50 V	16 μV/V
	100 V	18 μV/V
	200 V	18 μV/V
	500 V	20 μV/V
	700 V	23 μV/V
	1000 V	22 μV/V

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC voltmeter	Calibration for AC voltage by comparison with AC Measurement Standard in accordance with in-house procedure TPL034 at the following values:	
	20 kHz	
	10 mV	100 μV/V
	100 mV	30 μV/V
	200 mV	30 μV/V
	0.5 V	18 μV/V
	1 V	14 μV/V
	2 V	16 μV/V
	5 V	14 μV/V
	10 V	16 μV/V
	20 V	17 μV/V
	50 V	16 μV/V
	100 V	18 μV/V
	200 V	22 μV/V
	500 V	28 μV/V
	700 V	33 μV/V
	1000 V	32 μV/V
	30 kHz	
	100 V	18 μV/V
	200 V	22 μV/V
	500 V	32 μV/V
	700 V	43 μV/V
	1000 V	42 μV/V

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED[@]** 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC voltmeter	Calibration for AC voltage by comparison with AC Measurement Standard in accordance with in-house procedure TPL034 at the following values:	
	50 kHz	
	10 mV	150 μV/V
	100 mV	50 μV/V
	200 mV	50 μV/V
	0.5 V	18 μV/V
	1 V	15 μV/V
	2 V	16 μV/V
	5 V	16 μV/V
	10 V	16 μV/V
	20 V	17 μV/V
	50 V	16 μV/V
	100 V	22 μV/V
	200 V	27 μV/V
	500 V	42 μV/V
	700 V	52 μV/V
	100 kHz	
	10 mV	200 μV/V
	100 mV	100 μV/V
	200 mV	100 μV/V
	0.5 V	22 μV/V
	1 V	18 μV/V
	2 V	18 μV/V
	5 V	18 μV/V
	10 V	18 μV/V
	20 V	18 μV/V
	50 V	22 μV/V
	100 V	32 μV/V
	200 V	45 μV/V
	500 V	110 μV/V

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC voltmeter	Calibration for AC voltage by comparison with AC Measurement Standard in accordance with in-house procedure TPL034 at the following values:	
	300 kHz	
	0.5 V	48 μV/V
	1 V	46 μV/V
	2 V	46 μV/V
	5 V	44 μV/V
	10 V	43 μV/V
	20 V	43 μV/V
	500 kHz	
	0.5 V	92 μV/V
	1 V	90 μV/V
	2 V	85 μV/V
	5 V	80 μV/V
	10 V	80 μV/V
	20 V	80 μV/V
	1 MHz	
	0.5 V	320 μV/V
	1 V	320 μV/V
	2 V	320 μV/V
	5 V	320 μV/V
	10 V	320 μV/V
	20 V	320 μV/V

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC voltmeter	Calibration for AC voltage by comparison with AC Measurement Standard in accordance with in-house procedure TPL037 at the following values:	
	20 Hz	
	0.5 V	20 μV/V
	1 V	20 μV/V
	2 V	20 μV/V
	5 V	20 μV/V
	10 V	20 μV/V
	20 V	20 μV/V
	50 V	20 μV/V
	100 V	20 μV/V
	200 V	20 μV/V
	500 V	30 μV/V
	40 Hz	
	10 mV	100 μV/V
	100 mV	30 μV/V
	200 mV	30 μV/V
	0.5 V	15 μV/V
	1 V	13 μV/V
	2 V	14 μV/V
	5 V	13 μV/V
	10 V	15 μV/V
	20 V	14 μV/V
	50 V	15 μV/V
	100 V	16 μV/V
	200 V	16 μV/V
	500 V	20 μV/V
	700 V	20 μV/V
	1000 V	21 μV/V

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED[@]** 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC voltmeter	Calibration for AC voltage by comparison with AC Measurement Standard in accordance with in-house procedure TPL037 at the following values:	
	1 kHz	
	10 mV	100 μV/V
	100 mV	30 μV/V
	200 mV	30 μV/V
	0.5 V	15 μV/V
	1 V	13 μV/V
	2 V	13 μV/V
	5 V	13 μV/V
	10 V	14 μV/V
	20 V	14 μV/V
	50 V	15 μV/V
	100 V	16 μV/V
	200 V	16 μV/V
	500 V	20 μV/V
	700 V	20 μV/V
	1000 V	20 μV/V
	10 kHz	
	10 mV	100 μV/V
	100 mV	30 μV/V
	200 mV	30 μV/V
	0.5 V	15 μV/V
	1 V	13 μV/V
	2 V	13 μV/V
	5 V	13 μV/V
	10 V	14 μV/V
	20 V	14 μV/V
	50 V	15 μV/V
	100 V	16 μV/V
	200 V	16 μV/V
	500 V	25 μV/V
	700 V	25 μV/V
	1000 V	25 μV/V

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC voltmeter	Calibration for AC voltage by comparison with AC Measurement Standard in accordance with in-house procedure TPL037 at the following values:	
	20 kHz	
	10 mV	100 μV/V
	100 mV	30 μV/V
	200 mV	30 μV/V
	0.5 V	15 μV/V
	1 V	13 μV/V
	2 V	13 μV/V
	5 V	13 μV/V
	10 V	14 μV/V
	20 V	14 μV/V
	50 V	15 μV/V
	100 V	16 μV/V
	200 V	20 μV/V
	500 V	30 μV/V
	700 V	35 μV/V
	1000 V	35 μV/V
	30 kHz	
	100 V	16 μV/V
	200 V	20 μV/V
	500 V	40 μV/V
	700 V	50 μV/V
	1000 V	45 μV/V

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC voltmeter	Calibration for AC voltage by comparison with AC Measurement Standard in accordance with in-house procedure TPL037 at the following values:	
	50 kHz	
	10 mV	150 μV/V
	100 mV	50 μV/V
	200 mV	50 μV/V
	0.5 V	15 μV/V
	1 V	15 μV/V
	2 V	15 μV/V
	5 V	15 μV/V
	10 V	14 μV/V
	20 V	15 μV/V
	50 V	20 μV/V
	100 V	20 μV/V
	200 V	25 μV/V
	500 V	80 μV/V
	700 V	100 μV/V
	100 kHz	
	10 mV	200 μV/V
	100 mV	100 μV/V
	200 mV	100 μV/V
	0.5 V	30 μV/V
	1 V	20 μV/V
	2 V	20 μV/V
	5 V	20 μV/V
	10 V	20 μV/V
	20 V	20 μV/V
	50 V	30 μV/V
	100 V	31 μV/V
	200 V	45 μV/V
	500 V	200 μV/V

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC voltmeter	Calibration for AC voltage by comparison with AC Measurement Standard in accordance with in-house procedure TPL037 at the following values:	
	300 kHz	
	0.5 V	70 μV/V
	1 V	70 μV/V
	2 V	70 μV/V
	5 V	60 μV/V
	10 V	60 μV/V
	20 V	60 μV/V
	500 kHz	
	0.5 V	200 μV/V
	1 V	200 μV/V
	2 V	200 μV/V
	5 V	200 μV/V
	10 V	200 μV/V
	20 V	200 μV/V
	1 MHz	
	0.5 V	400 μV/V
	1 V	400 μV/V
	2 V	400 μV/V
	5 V	400 μV/V
	10 V	400 μV/V
	20 V	400 μV/V

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC voltmeter	Calibration for AC voltage by comparison with AC Measurement Standard in accordance with in-house procedure TPL037 at the following values:	
	40 Hz to 20 kHz	
	10 mV to 20 mV	380 μV/V
	Above 20 mV to 60 mV	170 μV/V
	Above 60 mV to 200 mV	80 μV/V
	Above 200 mV to 600 mV	50 μV/V
	Above 0.6 V to 200 V	40 μV/V
	Above 200 V to 1000 V	50 μV/V
	20 kHz to 50 kHz	
	10 mV to 20 mV	630 μV/V
	Above 20 mV to 60 mV	270 μV/V
	Above 60 mV to 200 mV	120 μV/V
	Above 200 mV to 1000 V	170 μV/V
	50 kHz to 100 kHz	
	10 mV to 20 mV	840 μV/V
	Above 20 mV to 60 mV	450 μV/V
	Above 60 mV to 200 mV	240 μV/V
	Above 200 mV to 200 V	170 μV/V
	Above 200 V to 600 V	570 μV/V
	100 kHz to 300 kHz	
	0.2 V to 20 V	230 μV/V
	300 kHz to 500 kHz	
	0.2 V to 20 V	500 μV/V
	500 kHz to 1 MHz	
	0.2 V to 0.6 V	1200 μV/V
	Above 0.6 V to 2 V	1100 μV/V
	Above 2 V to 20 V	1400 μV/V

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC voltmeter	On-site calibration for AC voltage by comparison with AC Measurement Standard in accordance with in-house procedure TPL037 over the following ranges:	
	40 Hz to 20 kHz	
	10 mV to 20 mV	380 μV/V
	Above 20 mV to 60 mV	170 μV/V
	Above 60 mV to 200 mV	80 μV/V
	Above 200 mV to 600 mV	50 μV/V
	Above 0.6 V to 200 V	40 μV/V
	Above 200 V to 1000 V	50 μV/V
	20 kHz to 50 kHz	
	10 mV to 20 mV	630 μV/V
	Above 20 mV to 60 mV	270 μV/V
	Above 60 mV to 200 mV	120 μV/V
	Above 200 mV to 1000 V	170 μV/V
	50 kHz to 100 kHz	
	10 mV to 20 mV	840 μV/V
	Above 20 mV to 60 mV	450 μV/V
	Above 60 mV to 200 mV	240 μV/V
	Above 200 mV to 200 V	170 μV/V
	Above 200 V to 600 V	570 μV/V
	100 kHz to 300 kHz	
	0.2 V to 20 V	230 μV/V
	300 kHz to 500 kHz	
	0.2 V to 20 V	500 μV/V
	500 kHz to 1 MHz	
	0.2 V to 0.6 V	1200 μV/V
	Above 0.6 V to 2 V	1100 μV/V
	Above 2 V to 20 V	1400 μV/V

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC voltmeter	Calibration for AC voltage by direct measurement using multi-function calibrator in accordance with in-house procedure TPL038 at the following values:	
	20 Hz	
	0.5 V	30 μV/V
	1 V	30 μV/V
	2 V	30 μV/V
	5 V	30 μV/V
	10 V	30 μV/V
	20 V	30 μV/V
	50 V	30 μV/V
	100 V	30 μV/V
	200 V	30 μV/V
	500 V	50 μV/V
	40 Hz, 1 kHz, 10 kHz	
	10 mV	300 μV/V
	100 mV	50 μV/V
	200 mV	50 μV/V
	0.5 V	30 μV/V
	1 V	30 μV/V
	2 V	30 μV/V
	5 V	30 μV/V
	10 V	30 μV/V
	20 V	30 μV/V
	50 V	30 μV/V
	100 V	30 μV/V
	200 V	30 μV/V
	500 V	50 μV/V
	700 V	50 μV/V
	1000 V	50 μV/V

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC voltmeter	Calibration for AC voltage by direct measurement using multi-function calibrator in accordance with in-house procedure TPL038 at the following values:	
	20 kHz	
	10 mV	300 μV/V
	100 mV	50 μV/V
	200 mV	50 μV/V
	0.5 V	30 μV/V
	1 V	30 μV/V
	2 V	30 μV/V
	5 V	30 μV/V
	10 V	30 μV/V
	20 V	30 μV/V
	50 V	30 μV/V
	100 V	30 μV/V
	200 V	30 μV/V
	500 V	50 μV/V
	700 V	50 μV/V
	1000 V	100 μV/V
	30 kHz	
	100 V	30 μV/V
	200 V	30 μV/V
	500 V	50 μV/V
	700 V	50 μV/V
	1000 V	100 μV/V

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC voltmeter	Calibration for AC voltage by direct measurement using multi-function calibrator in accordance with in-house procedure TPL038 at the following values:	
	50 kHz	
	10 mV	300 μV/V
	100 mV	50 μV/V
	200 mV	50 μV/V
	0.5 V	30 μV/V
	1 V	30 μV/V
	2 V	30 μV/V
	5 V	30 μV/V
	10 V	30 μV/V
	20 V	30 μV/V
	50 V	30 μV/V
	100 V	30 μV/V
	200 V	30 μV/V
	500 V	100 μV/V
	700 V	100 μV/V
	100 kHz	
	10 mV	300 μV/V
	100 mV	100 μV/V
	200 mV	100 μV/V
	0.5 V	30 μV/V
	1 V	30 μV/V
	2 V	30 μV/V
	5 V	30 μV/V
	10 V	30 μV/V
	20 V	30 μV/V
	50 V	30 μV/V
	100 V	50 μV/V
	200 V	50 μV/V
	500 V	200 μV/V

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC voltmeter	Calibration for AC voltage by direct measurement using multi-function calibrator in accordance with in-house procedure TPL038 at the following values:	
	300 kHz	
	0.5 V	100 μV/V
	1 V	100 μV/V
	2 V	100 μV/V
	5 V	100 μV/V
	10 V	100 μV/V
	20 V	100 μV/V
	500 kHz	
	0.5 V	200 μV/V
	1 V	200 μV/V
	2 V	200 μV/V
	5 V	200 μV/V
	10 V	200 μV/V
	20 V	200 μV/V
	1 MHz	
	0.5 V	1 mV/V
	1 V	1 mV/V
	2 V	1 mV/V
	5 V	1 mV/V
	10 V	1 mV/V
	20 V	1 mV/V

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC voltmeter	Calibration for AC voltage in accordance with in-house procedure TPL038 over the following ranges:	
	40 Hz to 20 kHz	
	10 mV to 20 mV	1300 μV/V
	Above 20 mV to 60 mV	1100 μV/V
	Above 60 mV to 200 mV	600 μV/V
	Above 200 mV to 600 mV	210 μV/V
	Above 0.6 V to 2 V	140 μV/V
	Above 2 V to 6 V	210 μV/V
	Above 6 V to 20 V	140 μV/V
	Above 20 V to 60 V	230 μV/V
	Above 60 V to 200 V	150 μV/V
	Above 200 V to 600 V	380 μV/V
	Above 600 V to 1000 V	300 μV/V
	20 kHz to 50 kHz	
	10 mV to 20 mV	1800 μV/V
	Above 20 mV to 60 mV	1500 μV/V
	Above 60 mV to 200 mV	1100 μV/V
	Above 200 mV to 600 mV	270 μV/V
	Above 0.6 V to 2 V	200 μV/V
	Above 2 V to 6 V	260 μV/V
	Above 6 V to 20 V	180 μV/V
	Above 20 V to 60 V	400 μV/V
	Above 60 V to 200 V	290 μV/V
	Above 200 V to 600 V	190 μV/V
	Above 600 V to 700 V	180 μV/V
	20 kHz to 50 kHz	
	700 V to 1000 V	180 μV/V

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC voltmeter	Calibration for AC voltage in accordance with in-house procedure TPL038 over the following ranges:	
	50 kHz to 100 kHz	
	10 mV to 20 mV	1800 µV/V
	Above 20 mV to 60 mV	1500 µV/V
	Above 60 mV to 200 mV	1100 µV/V
	Above 200 mV to 600 mV	270 µV/V
	Above 0.6 V to 2 V	200 µV/V
	Above 2 V to 6 V	260 µV/V
	Above 6 V to 20 V	180 µV/V
	Above 20 V to 60 V	400 µV/V
	Above 60 V to 200 V	290 µV/V
	Above 200 V to 600 V	190 µV/V
	100 kHz to 300 kHz	
	0.2 V to 0.6 V	1.2 mV/V
	Above 0.6 V to 2 V	0.81 mV/V
	Above 2 V to 6 V	1.0 mV/V
	Above 6 V to 20 V	0.62 mV/V
	300 kHz to 500 kHz	
	0.2 V to 0.6 V	570 µV/V
	Above 0.6 V to 2 V	500 µV/V
	Above 2 V to 6 V	520 µV/V
	Above 6 V to 20 V	500 µV/V
	500 kHz to 1 MHz	
	0.2 V to 0.6 V	1.1 mV/V
	Above 0.6 V to 2 V	1.1 mV/V
	Above 2 V to 6 V	1.1 mV/V
	Above 6 V to 20 V	1.1 mV/V

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC voltmeter	On-site calibration for AC voltage in accordance with in-house procedure TPL038 over the following ranges:	
	40 Hz to 20 kHz	
	10 mV to 20 mV	1300 μV/V
	Above 20 mV to 60 mV	1100 μV/V
	Above 60 mV to 200 mV	600 μV/V
	Above 200 mV to 600 mV	210 μV/V
	Above 0.6 V to 2 V	140 μV/V
	Above 2 V to 6 V	210 μV/V
	Above 6 V to 20 V	140 μV/V
	Above 20 V to 60 V	230 μV/V
	Above 60 V to 200 V	150 μV/V
	Above 200 V to 600 V	380 μV/V
	Above 600 V to 1000 V	300 μV/V
	20 kHz to 50 kHz	
	10 mV to 20 mV	1800 μV/V
	Above 20 mV to 60 mV	1500 μV/V
	Above 60 mV to 200 mV	1100 μV/V
	Above 200 mV to 600 mV	270 μV/V
	Above 0.6 V to 2 V	200 μV/V
	Above 2 V to 6 V	260 μV/V
	Above 6 V to 20 V	180 μV/V
	Above 20 V to 60 V	400 μV/V
	Above 60 V to 200 V	290 μV/V
	Above 200 V to 600 V	190 μV/V
	Above 600 V to 700 V	180 μV/V
	20 kHz to 30 kHz	
	700 V to 1000 V	180 μV/V

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC voltmeter	On-site calibration for AC voltage in accordance with in-house procedure TPL038 Over the following ranges:	
	50 kHz to 100 kHz	
	10 mV to 20 mV	1800 μV/V
	Above 20 mV to 60 mV	1500 μV/V
	Above 60 mV to 200 mV	1100 μV/V
	Above 200 mV to 600 mV	270 μV/V
	Above 0.6 V to 2 V	200 μV/V
	Above 2 V to 6 V	260 μV/V
	Above 6 V to 20 V	180 μV/V
	Above 20 V to 60 V	400 μV/V
	Above 60 V to 200 V	290 μV/V
	Above 200 V to 600 V	190 μV/V
	100 kHz to 300 kHz	
	0.2 V to 0.6 V	1.2 mV/V
	Above 0.6 V to 2 V	0.81 mV/V
	Above 2 V to 6 V	1.1 mV/V
	Above 6 V to 20 V	0.62 mV/V
	300 kHz to 500 kHz	
	0.2 V to 0.6 V	570 μV/V
	Above 0.6 V to 2 V	500 μV/V
	Above 2 V to 6 V	520 μV/V
	Above 6 V to 20 V	500 μV/V
	500 kHz to 1 MHz	
	0.2 V to 0.6 V	1.1 mV/V
	Above 0.6 V to 2 V	1.1 mV/V
	Above 2 V to 6 V	1.1 mV/V
	Above 6 V to 20 V	1.1 mV/V
	500 kHz to 1 MHz	
	0.2 V to 0.6 V	1200 μV/V
	Above 0.6 V to 2 V	1100 μV/V
	Above 2 V to 20 V	1400 μV/V

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC voltmeter	Calibration for AC voltage by comparison with AC Measurement Standard in accordance with in-house procedure TPL050 at the following values:	
	20 Hz	
	0.5 V	15 μV/V
	1 V	13 μV/V
	2 V	15 μV/V
	5 V	12 μV/V
	10 V	13 μV/V
	20 V	14 μV/V
	50 V	18 μV/V
	100 V	18 μV/V
	200 V	18 μV/V
	500 V	18 μV/V
	40 Hz, 1 kHz	
	10 mV	100 μV/V
	100 mV	30 μV/V
	200 mV	30 μV/V
	0.5 V	15 μV/V
	1 V	11 μV/V
	2 V	13 μV/V
	5 V	12 μV/V
	10 V	13 μV/V
	20 V	14 μV/V
	50 V	15 μV/V
	100 V	16 μV/V
	200 V	16 μV/V
	500 V	18 μV/V
	700 V	20 μV/V
	1000 V	18 μV/V

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC voltmeter	Calibration for AC voltage by comparison with AC Measurement Standard in accordance with in-house procedure TPL050 at the following values:	
	10 kHz	
	10 mV	100 μV/V
	100 mV	30 μV/V
	200 mV	30 μV/V
	0.5 V	15 μV/V
	1 V	11 μV/V
	2 V	13 μV/V
	5 V	12 μV/V
	10 V	13 μV/V
	20 V	14 μV/V
	50 V	15 μV/V
	100 V	16 μV/V
	200 V	16 μV/V
	500 V	18 μV/V
	700 V	20 μV/V
	1000 V	20 μV/V
	20 kHz	
	10 mV	100 μV/V
	100 mV	30 μV/V
	200 mV	30 μV/V
	0.5 V	15 μV/V
	1 V	11 μV/V
	2 V	13 μV/V
	5 V	12 μV/V
	10 V	13 μV/V
	20 V	14 μV/V
	50 V	15 μV/V
	100 V	16 μV/V
	200 V	20 μV/V
	500 V	25 μV/V
	700 V	30 μV/V
	1000 V	30 μV/V

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC voltmeter	Calibration for AC voltage by comparison with AC Measurement Standard in accordance with in-house procedure TPL050 at the following values:	
	30 kHz	
	100 V	16 μV/V
	200 V	20 μV/V
	500 V	30 μV/V
	700 V	40 μV/V
	1000 V	42 μV/V
	50 kHz	
	10 mV	150 μV/V
	100 mV	50 μV/V
	200 mV	50 μV/V
	0.5 V	15 μV/V
	1 V	13 μV/V
	2 V	13 μV/V
	5 V	12 μV/V
	10 V	14 μV/V
	20 V	14 μV/V
	50 V	15 μV/V
	100 V	20 μV/V
	200 V	25 μV/V
	500 V	40 μV/V
	700 V	50 μV/V

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC voltmeter	Calibration for AC voltage by comparison with AC Measurement Standard in accordance with in-house procedure TPL050 at the following values:	
	100 kHz	
	10 mV	200 μV/V
	100 mV	100 μV/V
	200 mV	100 μV/V
	0.5 V	20 μV/V
	1 V	20 μV/V
	2 V	15 μV/V
	5 V	15 μV/V
	10 V	15 μV/V
	20 V	18 μV/V
	50 V	20 μV/V
	100 V	30 μV/V
	200 V	45 μV/V
	500 V	100 μV/V
	300 kHz	
	0.5 V	45 μV/V
	1 V	40 μV/V
	2 V	40 μV/V
	5 V	40 μV/V
	10 V	40 μV/V
	20 V	40 μV/V
	500 kHz	
	0.5 V	65 μV/V
	1 V	50 μV/V
	2 V	50 μV/V
	5 V	50 μV/V
	10 V	50 μV/V
	20 V	50 μV/V

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC voltmeter	Calibration for AC voltage by comparison with AC Measurement Standard in accordance with in-house procedure TPL050 at the following values or over the following ranges:	
	1 MHz	
	0.5 V	200 µV/V
	1 V	200 µV/V
	2 V	200 µV/V
	5 V	320 µV/V
	10 V	300 µV/V
	20 V	320 µV/V
	40 Hz to 20 kHz	
	10 mV to 20 mV	380 µV/V
	Above 20 mV to 60 mV	170 µV/V
	Above 60 mV to 200 mV	80 µV/V
	Above 200 mV to 600 mV	50 µV/V
	Above 0.6 V to 2 V	40 µV/V
	Above 2 V to 6 V	40 µV/V
	Above 6 V to 20 V	40 µV/V
	Above 20 V to 60 V	40 µV/V
	Above 60 V to 200 V	40 µV/V
	Above 200 V to 600 V	50 µV/V
	Above 600 V to 1000 V	45 µV/V
	20 kHz to 50 kHz	
	10 mV to 20 mV	630 µV/V
	Above 20 mV to 60 mV	270 µV/V
	Above 60 mV to 200 mV	120 µV/V
	Above 200 mV to 600 mV	90 µV/V
	Above 0.6 V to 2 V	90 µV/V
	Above 2 V to 6 V	90 µV/V
	Above 6 V to 20 V	90 µV/V
	Above 20 V to 60 V	90 µV/V
	Above 60 V to 200 V	90 µV/V
	Above 200 V to 700 V	150 µV/V

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC voltmeter	Calibration for AC voltage by comparison with AC Measurement Standard in accordance with in-house procedure TPL050 over the following ranges:	
	20 kHz to 30 kHz	
	700 V to 1000 V	150 μV/V
	50 kHz to 100 kHz	
	10 mV to 20 mV	840 μV/V
	Above 20 mV to 60 mV	450 μV/V
	Above 60 mV to 200 mV	240 μV/V
	Above 200 mV to 600 mV	170 μV/V
	Above 0.6 V to 2 V	170 μV/V
	Above 2 V to 6 V	170 μV/V
	Above 6 V to 20 V	170 μV/V
	Above 20 V to 60 V	170 μV/V
	Above 60 V to 200 V	170 μV/V
	Above 200 V to 700 V	580 μV/V
	100 kHz to 300 kHz	
	0.2 V to 0.6 V	230 μV/V
	Above 0.6 V to 2 V	230 μV/V
	Above 2 V to 6 V	230 μV/V
	Above 6 V to 20 V	230 μV/V
	300 kHz to 500 kHz	
	0.2 V to 0.6 V	500 μV/V
	Above 0.6 V to 2 V	500 μV/V
	Above 2 V to 6 V	500 μV/V
	Above 6 V to 20 V	500 μV/V
	500 kHz to 1 MHz	
	0.2 V to 0.6 V	1.2 mV/V
	Above 0.6 V to 2 V	1.1 mV/V
	Above 2 V to 6 V	1.4 mV/V
	Above 6 V to 20 V	1.4 mV/V

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC voltmeter	On-site calibration for AC voltage by comparison with AC Measurement Standard in accordance with in-house procedure TPL050 over the following ranges:	
	40 Hz to 20 kHz	
	10 mV to 20 mV	380 μV/V
	Above 20 mV to 60 mV	170 μV/V
	Above 60 mV to 200 mV	80 μV/V
	Above 200 mV to 600 mV	50 μV/V
	Above 0.6 V to 2 V	40 μV/V
	Above 2 V to 6 V	40 μV/V
	Above 6 V to 20 V	40 μV/V
	Above 20 V to 60 V	40 μV/V
	Above 60 V to 200 V	40 μV/V
	Above 200 V to 600 V	50 μV/V
	Above 600 V to 1000 V	45 μV/V
	20 kHz to 50 kHz	
	10 mV to 20 mV	630 μV/V
	Above 20 mV to 60 mV	270 μV/V
	Above 60 mV to 200 mV	120 μV/V
	Above 200 mV to 600 mV	90 μV/V
	Above 0.6 V to 2 V	90 μV/V
	Above 2 V to 6 V	90 μV/V
	Above 6 V to 20 V	90 μV/V
	Above 20 V to 60 V	90 μV/V
	Above 60 V to 200 V	90 μV/V
	Above 200 V to 700 V	150 μV/V
	20 kHz to 30 kHz	
	700 V to 1000 V	150 μV/V

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC voltmeter	On-site calibration for AC voltage by comparison with AC Measurement Standard in accordance with in-house procedure TPL050 over the following ranges:	
	50 kHz to 100 kHz	
	10 mV to 20 mV	840 μV/V
	Above 20 mV to 60 mV	450 μV/V
	Above 60 mV to 200 mV	240 μV/V
	Above 200 mV to 600 mV	170 μV/V
	Above 0.6 V to 2 V	170 μV/V
	Above 2 V to 6 V	170 μV/V
	Above 6 V to 20 V	170 μV/V
	Above 20 V to 60 V	170 μV/V
	Above 60 V to 200 V	170 μV/V
	Above 200 V to 700 V	580 μV/V
	100 kHz to 300 kHz	
	0.2 V to 0.6 V	230 μV/V
	Above 0.6 V to 2 V	230 μV/V
	Above 2 V to 6 V	230 μV/V
	Above 6 V to 20 V	230 μV/V
	300 kHz to 500 kHz	
	0.2 V to 0.6 V	500 μV/V
	Above 0.6 V to 2 V	500 μV/V
	Above 2 V to 6 V	500 μV/V
	Above 6 V to 20 V	500 μV/V
	500 kHz to 1 MHz	
	0.2 V to 0.6 V	1.2 mV/V
	Above 0.6 V to 2 V	1.1 mV/V
	Above 2 V to 6 V	1.4 mV/V
	Above 6 V to 20 V	1.4 mV/V

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC three phase voltmeter	Calibration for AC voltage in accordance with in-house procedure TPL102 over the following range of parameters:	
	45 Hz to 65 Hz 50 V to 500 V	60 μV/V

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED[@]** 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC/DC voltage transfer instrument	Calibration for AC/DC voltage difference in accordance with in-house procedure TPL006 at the following values:	
	20 Hz	
	0.5 V	12 µV/V
	1 V	10 µV/V
	2 V	10 µV/V
	3 V	10 µV/V
	5 V	11 µV/V
	10 V	11 µV/V
	20 V	12 µV/V
	50 V	11 µV/V
	100 V	11 µV/V
	200 V	13 µV/V
	500 V	17 µV/V
	40 Hz	
	0.5 V	11 µV/V
	1 V	9.0 µV/V
	2 V	11 µV/V
	3 V	10 µV/V
	5 V	10 µV/V
	10 V	11 µV/V
	20 V	10 µV/V
	50 V	11 µV/V
	100 V	11 µV/V
	200 V	12 µV/V
	500 V	16 µV/V
	700 V	16 µV/V
	1000 V	18 µV/V

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC/DC voltage transfer instrument	Calibration for AC/DC voltage difference in accordance with in-house procedure TPL006 at the following values:	
	1 kHz	
	0.5 V	11 µV/V
	1 V	9.0 µV/V
	2 V	9.0 µV/V
	3 V	9.0 µV/V
	5 V	10 µV/V
	10 V	9.0 µV/V
	20 V	9.0 µV/V
	50 V	11 µV/V
	100 V	10 µV/V
	200 V	11 µV/V
	500 V	15 µV/V
	700 V	15 µV/V
	1000 V	15 µV/V
	10 kHz	
	0.5 V	10 µV/V
	1 V	9.0 µV/V
	2 V	9.0 µV/V
	5 V	10 µV/V
	10 V	10 µV/V
	20 V	10 µV/V
	50 V	11 µV/V
	100 V	10 µV/V
	200 V	12 µV/V
	500 V	16 µV/V
	700 V	18 µV/V
	1000 V	18 µV/V

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC/DC voltage transfer instrument	Calibration for AC/DC voltage difference in accordance with in-house procedure TPL006 at the following values:	
	20 kHz	
	0.5 V	13 μV/V
	1 V	10 μV/V
	2 V	9.0 μV/V
	3 V	9.0 μV/V
	5 V	10 μV/V
	10 V	9.0 μV/V
	20 V	10 μV/V
	50 V	11 μV/V
	100 V	11 μV/V
	200 V	15 μV/V
	500 V	23 μV/V
	700 V	30 μV/V
	1000 V	30 μV/V
	30 kHz	
	100 V	10 μV/V
	200 V	17 μV/V
	500 V	28 μV/V
	700 V	42 μV/V
	1000 V	42 μV/V
	50 kHz	
	0.5 V	12 μV/V
	1 V	11 μV/V
	2 V	9.0 μV/V
	3 V	9.0 μV/V
	5 V	10 μV/V
	10 V	9.0 μV/V
	20 V	10 μV/V
	50 V	11 μV/V
	100 V	10 μV/V
	200 V	20 μV/V
	500 V	45 μV/V
	700 V	61 μV/V

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC/DC voltage transfer instrument	Calibration for AC/DC voltage difference in accordance with in-house procedure TPL006 at the following values:	
	100 kHz	
	0.5 V	27 μV/V
	1 V	17 μV/V
	2 V	14 μV/V
	3 V	14 μV/V
	5 V	14 μV/V
	10 V	14 μV/V
	20 V	14 μV/V
	50 V	16 μV/V
	100 V	16 μV/V
	200 V	36 μV/V
	500 V	73 μV/V
	700 V	110 μV/V
	200 kHz	
	100 V	27 μV/V
	300 kHz	
	0.5 V	56 μV/V
	1 V	39 μV/V
	2 V	28 μV/V
	3 V	25 μV/V
	5 V	25 μV/V
	10 V	24 μV/V
	20 V	25 μV/V
	500 kHz	
	0.5 V	69 μV/V
	1 V	56 μV/V
	2 V	34 μV/V
	3 V	33 μV/V
	5 V	29 μV/V
	10 V	29 μV/V
	20 V	29 μV/V

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC/DC voltage transfer instrument	Calibration for AC/DC voltage difference in accordance with in-house procedure TPL006 at the following values:	
	1 MHz	
	0.5 V	160 µV/V
	1 V	160 µV/V
	2 V	120 µV/V
	3 V	120 µV/V
	5 V	120 µV/V
	10 V	120 µV/V
	20 V	120 µV/V
	Calibration for AC/DC voltage difference in accordance with in-house procedure TPL032 at the following values:	
	20 Hz	
	0.5 V	12 µV/V
	1 V	8.0 µV/V
	2 V	9.0 µV/V
	3 V	9.0 µV/V
	5 V	8.0 µV/V
	10 V	9.0 µV/V
	20 V	12 µV/V
	50 V	11 µV/V
	100 V	10 µV/V
	200 V	12 µV/V
	500 V	16 µV/V

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC/DC voltage transfer instrument	Calibration for AC/DC voltage difference in accordance with in-house procedure TPL032 at the following values:	
	40 Hz	
	0.5 V	11 μV/V
	1 V	8.0 μV/V
	2 V	11 μV/V
	3 V	10 μV/V
	5 V	8.0 μV/V
	10 V	11 μV/V
	20 V	10 μV/V
	50 V	11 μV/V
	100 V	11 μV/V
	200 V	12 μV/V
	500 V	16 μV/V
	700 V	16 μV/V
	1000 V	18 μV/V
	1 kHz	
	0.5 V	11 μV/V
	1 V	8.0 μV/V
	2 V	8.0 μV/V
	3 V	8.0 μV/V
	5 V	8.0 μV/V
	10 V	9.0 μV/V
	20 V	9.0 μV/V
	50 V	10 μV/V
	100 V	10 μV/V
	200 V	11 μV/V
	500 V	12 μV/V
	700 V	12 μV/V
	1000 V	12 μV/V

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC/DC voltage transfer instrument	Calibration for AC/DC voltage difference in accordance with in-house procedure TPL032 at the following values:	
	10 kHz	
	0.5 V	10 μV/V
	1 V	8.0 μV/V
	2 V	8.0 μV/V
	3 V	8.0 μV/V
	5 V	8.0 μV/V
	10 V	10 μV/V
	20 V	10 μV/V
	50 V	10 μV/V
	100 V	10 μV/V
	200 V	12 μV/V
	500 V	14 μV/V
	700 V	15 μV/V
	1000 V	15 μV/V
	20 kHz	
	0.5 V	13 μV/V
	1 V	8.0 μV/V
	2 V	8.0 μV/V
	3 V	8.0 μV/V
	5 V	8.0 μV/V
	10 V	9.0 μV/V
	20 V	10 μV/V
	50 V	10 μV/V
	100 V	10 μV/V
	200 V	15 μV/V
	500 V	20 μV/V
	700 V	27 μV/V
	1000 V	27 μV/V

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC/DC voltage transfer instrument	Calibration for AC/DC voltage difference in accordance with in-house procedure TPL032 at the following values:	
	30 kHz	
	100 V	10 μV/V
	200 V	16 μV/V
	500 V	28 μV/V
	700 V	35 μV/V
	1000 V	37 μV/V
	50 kHz	
	0.5 V	12 μV/V
	1 V	9.0 μV/V
	2 V	8.0 μV/V
	3 V	9.0 μV/V
	5 V	9.0 μV/V
	10 V	9.0 μV/V
	20 V	10 μV/V
	50 V	10 μV/V
	100 V	10 μV/V
	200 V	19 μV/V
	500 V	34 μV/V
	700 V	44 μV/V
	100 kHz	
	0.5 V	16 μV/V
	1 V	13 μV/V
	2 V	12 μV/V
	3 V	10 μV/V
	5 V	10 μV/V
	10 V	10 μV/V
	20 V	11 μV/V
	50 V	14 μV/V
	100 V	14 μV/V
	200 V	33 μV/V
	500 V	62 μV/V
	700 V	83 μV/V

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC/DC voltage transfer instrument	Calibration for AC/DC voltage difference in accordance with in-house procedure TPL032 at the following values:	
	200 kHz	
	100 V	16 μV/V
	300 kHz	
	0.5 V	40 μV/V
	1 V	29 μV/V
	2 V	25 μV/V
	3 V	21 μV/V
	5 V	18 μV/V
	10 V	18 μV/V
	20 V	19 μV/V
	500 kHz	
	0.5 V	60 μV/V
	1 V	42 μV/V
	2 V	34 μV/V
	3 V	33 μV/V
	5 V	29 μV/V
	10 V	29 μV/V
	20 V	29 μV/V
	1 MHz	
	0.5 V	120 μV/V
	1 V	92 μV/V
	2 V	78 μV/V
	3 V	78 μV/V
	5 V	68 μV/V
	10 V	68 μV/V
	20 V	70 μV/V

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC/DC voltage transfer instrument	Calibration for AC/DC voltage difference in accordance with in-house procedure TPL145 at the following values:	
	20 Hz	
	0.5 V	12 μV/V
	1 V	8.0 μV/V
	2 V	9.0 μV/V
	3 V	9.0 μV/V
	5 V	8.0 μV/V
	10 V	9.0 μV/V
	20 V	12 μV/V
	50 V	11 μV/V
	100 V	10 μV/V
	200 V	12 μV/V
	500 V	16 μV/V
	40 Hz	
	0.5 V	11 μV/V
	1 V	8.0 μV/V
	2 V	11 μV/V
	3 V	10 μV/V
	5 V	8.0 μV/V
	10 V	11 μV/V
	20 V	10 μV/V
	50 V	11 μV/V
	100 V	11 μV/V
	200 V	12 μV/V
	500 V	16 μV/V
	700 V	16 μV/V
	1000 V	18 μV/V

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC/DC voltage transfer instrument	Calibration for AC/DC voltage difference in accordance with in-house procedure TPL145 at the following values:	
	1 kHz	
	0.5 V	11 µV/V
	1 V	8.0 µV/V
	2 V	8.0 µV/V
	3 V	8.0 µV/V
	5 V	8.0 µV/V
	10 V	9.0 µV/V
	20 V	9.0 µV/V
	50 V	10 µV/V
	100 V	10 µV/V
	200 V	11 µV/V
	500 V	12 µV/V
	700 V	12 µV/V
	1000 V	12 µV/V
	10 kHz	
	0.5 V	10 µV/V
	1 V	8.0 µV/V
	2 V	8.0 µV/V
	3 V	8.0 µV/V
	5 V	8.0 µV/V
	10 V	10 µV/V
	20 V	10 µV/V
	50 V	10 µV/V
	100 V	10 µV/V
	200 V	12 µV/V
	500 V	14 µV/V
	700 V	15 µV/V
	1000 V	15 µV/V

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC/DC voltage transfer instrument	Calibration for AC/DC voltage difference in accordance with in-house procedure TPL145 at the following values:	
	20 kHz	
	0.5 V	13 μV/V
	1 V	8.0 μV/V
	2 V	8.0 μV/V
	3 V	8.0 μV/V
	5 V	8.0 μV/V
	10 V	9.0 μV/V
	20 V	10 μV/V
	50 V	10 μV/V
	100 V	10 μV/V
	200 V	15 μV/V
	500 V	20 μV/V
	700 V	27 μV/V
	1000 V	27 μV/V
	30 kHz	
	100 V	10 μV/V
	200 V	16 μV/V
	500 V	28 μV/V
	700 V	35 μV/V
	1000 V	37 μV/V
	50 kHz	
	0.5 V	12 μV/V
	1 V	9.0 μV/V
	2 V	8.0 μV/V
	3 V	9.0 μV/V
	5 V	9.0 μV/V
	10 V	9.0 μV/V
	20 V	10 μV/V
	50 V	10 μV/V
	100 V	10 μV/V
	200 V	19 μV/V
	500 V	34 μV/V
	700 V	44 μV/V

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC/DC voltage transfer instrument	Calibration for AC/DC voltage difference in accordance with in-house procedure TPL145 at the following values:	
	100 kHz	
	0.5 V	16 μV/V
	1 V	13 μV/V
	2 V	12 μV/V
	3 V	10 μV/V
	5 V	10 μV/V
	10 V	10 μV/V
	20 V	11 μV/V
	50 V	14 μV/V
	100 V	14 μV/V
	200 V	33 μV/V
	500 V	62 μV/V
	700 V	83 μV/V
	200 kHz	
	100 V	16 μV/V
	300 kHz	
	0.5 V	40 μV/V
	1 V	29 μV/V
	2 V	25 μV/V
	3 V	21 μV/V
	5 V	18 μV/V
	10 V	18 μV/V
	20 V	19 μV/V
	500 kHz	
	0.5 V	60 μV/V
	1 V	42 μV/V
	2 V	34 μV/V
	3 V	33 μV/V
	5 V	29 μV/V
	10 V	29 μV/V
	20 V	29 μV/V

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC/DC voltage transfer instrument	Calibration for AC/DC voltage difference in accordance with in-house procedure TPL145 at the following values:	
	1 MHz	
	0.5 V	120 μV/V
	1 V	92 μV/V
	2 V	78 μV/V
	3 V	78 μV/V
	5 V	68 μV/V
	10 V	68 μV/V
	20 V	70 μV/V
	Calibration for AC/DC voltage difference in accordance with in-house procedure TPL148 at the following values:	
	20 Hz	
	1 V	13 μV/V
	2 V	9.0 μV/V
	3 V	10 μV/V
	5 V	12 μV/V
	10 V	11 μV/V
	20 V	15 μV/V
	50 V	13 μV/V
	100 V	12 μV/V
	200 V	13 μV/V
	500 V	17 μV/V
	40 Hz	
	1 V	12 μV/V
	3 V	10 μV/V
	700 V	17 μV/V
	1000 V	18 μV/V

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC/DC voltage transfer instrument	Calibration for AC/DC voltage difference in accordance with in-house procedure TPL148 at the following values:	
	1 kHz	
	1 V	11 μV/V
	2 V	8.0 μV/V
	3 V	13 μV/V
	5 V	13 μV/V
	10 V	11 μV/V
	20 V	11 μV/V
	50 V	11 μV/V
	100 V	11 μV/V
	200 V	12 μV/V
	500 V	13 μV/V
	700 V	12 μV/V
	1000 V	12 μV/V
	10 kHz	
	1 V	10 μV/V
	3 V	11 μV/V
	700 V	15 μV/V
	1000 V	17 μV/V
	30 kHz	
	700 V	35 μV/V
	1000 V	37 μV/V
	50 kHz	
	1 V	11 μV/V
	3 V	9.0 μV/V
	50 V	11 μV/V
	100 V	11 μV/V
	200 V	19 μV/V
	500 V	34 μV/V
	700 V	44 μV/V

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC/DC voltage transfer instrument	Calibration for AC/DC voltage difference in accordance with in-house procedure TPL148 at the following values:	
	100 kHz	
	1 V	16 μV/V
	2 V	13 μV/V
	3 V	12 μV/V
	5 V	10 μV/V
	10 V	10 μV/V
	20 V	14 μV/V
	50 V	14 μV/V
	100 V	15 μV/V
	200 V	33 μV/V
	500 V	62 μV/V
	700 V	83 μV/V
	200 kHz	
	100 V	18 μV/V
	500 kHz	
	1 V	42 μV/V
	3 V	33 μV/V
	1 MHz	
	1 V	92 μV/V
	3 V	78 μV/V
	5 V	76 μV/V
	10 V	74 μV/V
	20 V	81 μV/V

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- Inductive voltage divider	Calibration for the following parameters in accordance with in-house procedure TPL018:	
	- Magnitude of AC voltage ratio at 25 V and the following frequencies:	
	400 Hz	2.6×10^{-7} of input
	1 kHz	2.6×10^{-7} of input
	10 kHz	2.2×10^{-6} of input
	- Quadrature error of AC voltage at 25 V and the following frequencies:	
	400 Hz	27×10^{-8} of input
	1 kHz	27×10^{-8} of input
	10 kHz	300×10^{-8} of input
	Calibration for the magnitude of AC voltage ratio in accordance with in-house procedure TPL087 at the following frequencies:	
	400 Hz	5.0×10^{-7} of input
	1 kHz	5.0×10^{-7} of input
	10 kHz	2.2×10^{-6} of input

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC current generator/source	On-site calibration for AC current in accordance with in-house procedure TPL044 over the following ranges:	
	40 Hz, 1 kHz	
	100 µA to 1 mA	65 µA/A
	Above 1 mA to 100 mA	40 µA/A
	Above 100 mA to 1 A	65 µA/A
	3 kHz, 5 kHz	
	100 µA to 1 mA	83 µA/A
	Above 1 mA to 100 mA	40 µA/A
	Above 100 mA to 1 A	81 µA/A
	10 kHz	
	100 µA to 1 mA	190 µA/A
	Above 1 mA to 100 mA	40 µA/A
	Above 100 mA to 1 A	200 µA/A
	Calibration for AC current in accordance with in-house procedure TPL044 over the following ranges:	
	40 Hz, 1 kHz	
	100 µA to 1 mA	65 µA/A
	Above 1 mA to 100 mA	40 µA/A
	Above 100 mA to 1 A	65 µA/A
	3 kHz, 5 kHz	
	100 µA to 1 mA	83 µA/A
	Above 1 mA to 100 mA	40 µA/A
	Above 100 mA to 1 A	81 µA/A
	10 kHz	
	100 µA to 1 mA	190 µA/A
	Above 1 mA to 100 mA	40 µA/A
	Above 100 mA to 1 A	200 µA/A

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC current generator/source	On-site calibration for AC current in accordance with in-house procedure TPL046 at the following values or over the following ranges:	
	40 Hz	
	100 µA to 1 mA	65 µA/A
	Above 1 mA to 1 A	95 µA/A
	1 mA	65 µA/A
	10 mA	45 µA/A
	100 mA	90 µA/A
	1 A	75 µA/A
	2 A	90 µA/A
	5 A	120 µA/A
	10 A	120 µA/A
	15 A	120 µA/A
	20 A	120 µA/A
	1 kHz	
	100 µA to 1 mA	65 µA/A
	Above 1 mA to 1 A	95 µA/A
	1 mA	65 µA/A
	10 mA	45 µA/A
	100 mA	70 µA/A
	1 A	75 µA/A
	2 A	90 µA/A
	5 A	120 µA/A
	10 A	120 µA/A
	15 A	120 µA/A
	20 A	120 µA/A
	3 kHz	
	100 µA to 10 mA	83 µA/A
	Above 10 mA to 100 mA	100 µA/A
	Above 100 mA to 1 A	150 µA/A

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC current generator/source	On-site calibration for AC current in accordance with in-house procedure TPL046 at the following values or over the following ranges:	
	5 kHz	
	100 µA to 10 mA	83 µA/A
	Above 10 mA to 100 mA	100 µA/A
	Above 100 mA to 1 A	150 µA/A
	1 mA	55 µA/A
	10 mA	55 µA/A
	100 mA	50 µA/A
	1 A	85 µA/A
	2 A	150 µA/A
	5 A	300 µA/A
	10 A	300 µA/A
	15 A	300 µA/A
	20 A	300 µA/A
	10 kHz	
	100 µA to 10 mA	190 µA/A
	Above 10 mA to 100 mA	300 µA/A
	Above 100 mA to 1 A	500 µA/A
	1 mA	190 µA/A
	10 mA	75 µA/A
	100 mA	185 µA/A
	1 A	230 µA/A
	2 A	500 µA/A
	5 A	500 µA/A
	10 A	500 µA/A

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC current generator/source	On-site calibration for AC current in accordance with in-house procedure TPL046 at the following values or over the following ranges:	
	40 Hz to 1 kHz	
	2.5 mA to 2 A	80 μA/A
	Above 2 A to 20 A	120 μA/A
	1 kHz to 5 kHz	
	2.5 mA to 100 mA	100 μA/A
	Above 100 mA to 1 A	150 μA/A
	Above 1 A to 20 A	300 μA/A
	5 kHz to 10 kHz	
	2.5 mA to 100 mA	300 μA/A
	Above 100 mA to 10 A	500 μA/A
	Calibration for AC current in accordance with in-house procedure TPL046 at the following values or over the following ranges:	
	40 Hz	
	100 μA to 1 mA	65 μA/A
	Above 1 mA to 1 A	95 μA/A
	1 mA	65 μA/A
	10 mA	45 μA/A
	100 mA	90 μA/A
	1 A	75 μA/A
	2 A	90 μA/A
	5 A	120 μA/A
	10 A	120 μA/A
	15 A	120 μA/A
	20 A	120 μA/A

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC current generator/source	Calibration for AC current in accordance with in-house procedure TPL046 at the following values or over the following ranges:	
	1 kHz	
	100 µA to 1 mA	65 µA/A
	Above 1 mA to 1 A	95 µA/A
	1 mA	65 µA/A
	10 mA	45 µA/A
	100 mA	70 µA/A
	1 A	75 µA/A
	2 A	90 µA/A
	5 A	120 µA/A
	10 A	120 µA/A
	15 A	120 µA/A
	20 A	120 µA/A
	3 kHz	
	100 µA to 10 mA	83 µA/A
	Above 10 mA to 100 mA	100 µA/A
	Above 100 mA to 1 A	150 µA/A
	5 kHz	
	100 µA to 10 mA	83 µA/A
	Above 10 mA to 100 mA	100 µA/A
	Above 100 mA to 1 A	150 µA/A
	1 mA	55 µA/A
	10 mA	55 µA/A
	100 mA	50 µA/A
	1 A	85 µA/A
	2 A	150 µA/A
	5 A	300 µA/A
	10 A	300 µA/A
	15 A	300 µA/A
	20 A	300 µA/A

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC current generator/source	Calibration for AC current in accordance with in-house procedure TPL046 at the following values or over the following ranges:	
	10 kHz	
	100 µA to 10 mA	190 µA/A
	Above 10 mA to 100 mA	300 µA/A
	Above 100 mA to 1 A	500 µA/A
	1 mA	190 µA/A
	10 mA	75 µA/A
	100 mA	185 µA/A
	1 A	230 µA/A
	2 A	500 µA/A
	5 A	500 µA/A
	10 A	500 µA/A
	40 Hz to 1 kHz	
	2.5 mA to 2 A	80 µA/A
	Above 2 A to 20 A	120 µA/A
	1 kHz to 5 kHz	
	2.5 mA to 100 mA	100 µA/A
	Above 100 mA to 1 A	150 µA/A
	Above 1 A to 20 A	300 µA/A
	5 kHz to 10 kHz	
	2.5 mA to 100 mA	300 µA/A
	Above 100 mA to 10 A	500 µA/A

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC current generator/source	Calibration for AC current in accordance with in-house procedure TPL025 at the following values:	
	40 Hz, 1 kHz	
	5 mA	30 μA/A
	10 mA	30 μA/A
	20 mA	30 μA/A
	30 mA	30 μA/A
	50 mA	30 μA/A
	100 mA	30 μA/A
	200 mA	30 μA/A
	300 mA	40 μA/A
	500 mA	40 μA/A
	1 A	40 μA/A
	2 A	40 μA/A
	3 A	50 μA/A
	5 A	50 μA/A
	10 A	50 μA/A
	15 A	60 μA/A
	20 A	60 μA/A
	5 kHz	
	5 mA	50 μA/A
	10 mA	50 μA/A
	20 mA	50 μA/A
	30 mA	50 μA/A
	50 mA	50 μA/A
	100 mA	50 μA/A
	200 mA	50 μA/A
	300 mA	100 μA/A
	500 mA	100 μA/A
	1 A	100 μA/A
	2 A	100 μA/A
	3 A	150 μA/A
	5 A	150 μA/A
	10 A	150 μA/A
	15 A	250 μA/A
	20 A	250 μA/A

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC current generator/source	Calibration for AC current in accordance with in-house procedure TPL025 at the following values or over the following ranges:	
	10 kHz	
	5 mA	250 μA/A
	10 mA	250 μA/A
	20 mA	250 μA/A
	30 mA	250 μA/A
	50 mA	250 μA/A
	100 mA	250 μA/A
	200 mA	250 μA/A
	300 mA	500 μA/A
	500 mA	500 μA/A
	1 A	500 μA/A
	2 A	500 μA/A
	3 A	500 μA/A
	5 A	500 μA/A
	10 A	500 μA/A
	15 A	500 μA/A
	20 Hz to 10 kHz	
	2.5 mA to 5 mA	100 μA/A
	Above 5 mA to 5 A	220 μA/A
	Above 5 A to 20 A	320 μA/A

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC current generator/source	Calibration for AC current by comparison with AC/DC transfer standard in accordance with in-house procedure TPL040 at the following values:	
	40 Hz, 1 kHz	
	5 mA	30 μA/A
	10 mA	30 μA/A
	20 mA	30 μA/A
	30 mA	30 μA/A
	50 mA	30 μA/A
	100 mA	30 μA/A
	200 mA	30 μA/A
	300 mA	30 μA/A
	500 mA	35 μA/A
	1 A	35 μA/A
	2 A	35 μA/A
	3 A	40 μA/A
	5 A	40 μA/A
	10 A	40 μA/A
	15 A	40 μA/A
	20 A	40 μA/A
	5 kHz	
	5 mA	30 μA/A
	10 mA	30 μA/A
	20 mA	30 μA/A
	30 mA	30 μA/A
	50 mA	30 μA/A
	100 mA	30 μA/A
	200 mA	30 μA/A
	300 mA	30 μA/A
	500 mA	35 μA/A
	1 A	35 μA/A
	2 A	56 μA/A
	3 A	56 μA/A
	5 A	56 μA/A
	10 A	56 μA/A
	15 A	56 μA/A
	20 A	56 μA/A

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC current generator/source	Calibration for AC current by comparison with AC/DC transfer standard in accordance with in-house procedure TPL040 at the following values or over the following ranges:	
	10 kHz	
	5 mA	30 μA/A
	10 mA	30 μA/A
	20 mA	30 μA/A
	30 mA	30 μA/A
	50 mA	30 μA/A
	100 mA	30 μA/A
	200 mA	30 μA/A
	300 mA	30 μA/A
	500 mA	35 μA/A
	1 A	35 μA/A
	2 A	56 μA/A
	3 A	56 μA/A
	5 A	60 μA/A
	10 A	60 μA/A
	15 A	60 μA/A
	40 Hz to 10 kHz	
	2.5 mA to 5 mA	100 μA/A
	Above 5 mA to 5 A	220 μA/A
	Above 5 A to 10 A	320 μA/A
	40 Hz to 5 kHz	
	10 A to 20 A	320 μA/A

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC current generator/source	Calibration for AC current by measuring voltage-drop with current transformer in accordance with in-house procedure TPL016 over the following range:	
	45 Hz to 60 Hz 1 A to 100 A	80 μA/A
	On-site calibration for AC current by measuring voltage-drop with current transformer in accordance with in-house procedure TPL134 over the following ranges:	
	45 Hz to 65 Hz 1 A to 50 A Above 50 A to 100 A Above 100 A to 200 A	 70 μA/A 80 μA/A 90 μA/A
	Calibration for AC current by measuring voltage-drop with current transformer in accordance with in-house procedure TPL134 over the following ranges:	
	45 Hz to 65 Hz 1 A to 50 A Above 50 A to 100 A Above 100 A to 200 A	 70 μA/A 80 μA/A 90 μA/A

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC ammeter	On-site calibration for AC current by direct measurement using multi-function calibrator in accordance with in-house procedure TPL038 at the following values or over the following ranges:	
	40 Hz, 1 kHz	
	100 µA	120 µA/A
	1 mA	120 µA/A
	10 mA	120 µA/A
	100 mA	120 µA/A
	1 A	240 µA/A
	5 kHz	
	100 µA	210 µA/A
	1 mA	160 µA/A
	10 mA	120 µA/A
	100 mA	120 µA/A
	1 A	360 µA/A
	10 kHz	
	100 µA	510 µA/A
	1 mA	510 µA/A
	10 mA	310 µA/A
	100 mA	310 µA/A
	1 A	1600 µA/A
	40 Hz to 1 kHz	
	100 µA to 200 µA	300 µA/A
	Above 200 µA to 200 mA	400 µA/A
	Above 200 mA to 2 A	600 µA/A
	1 kHz to 5 kHz	
	100 µA to 200 µA	600 µA/A
	Above 200 µA to 2 mA	1000 µA/A
	Above 2 mA to 20 mA	700 µA/A
	Above 20 mA to 200 mA	500 µA/A
	Above 200 mA to 2A	1200 µA/A

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC ammeter	On-site calibration for AC current by direct measurement using multi-function calibrator in accordance with in-house procedure TPL038 over the following ranges:	
	5 kHz to 10 kHz	
	100 µA to 200 µA	2.4 mA/A
	Above 200 µA to 2 mA	6.0 mA/A
	Above 2 mA to 20 mA	5.0 mA/A
	Above 20 mA to 200 mA	2.2 mA/A
	Above 200 mA to 2A	11 mA/A
	Calibration for AC current by direct measurement using multi-function calibrator in accordance with in-house procedure TPL038 at the following values:	
	40 Hz, 1 kHz	
	100 µA	120 µA/A
	1 mA	120 µA/A
	10 mA	120 µA/A
	100 mA	120 µA/A
	1 A	240 µA/A
	5 kHz	
	100 µA	210 µA/A
	1 mA	160 µA/A
	10 mA	120 µA/A
	100 mA	120 µA/A
	1 A	360 µA/A

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC ammeter	Calibration for AC current by direct measurement using multi-function calibrator in accordance with in-house procedure TPL038 at the following values or over the following ranges:	
	10 kHz	
	100 µA	510 µA/A
	1 mA	510 µA/A
	10 mA	310 µA/A
	100 mA	310 µA/A
	1 A	1600 µA/A
	40 Hz to 1 kHz	
	100 µA to 200 µA	300 µA/A
	Above 200 µA to 200 mA	400 µA/A
	Above 200 mA to 2 A	600 µA/A
	1 kHz to 5 kHz	
	100 µA to 200 µA	600 µA/A
	Above 200 µA to 2 mA	1000 µA/A
	Above 2 mA to 20 mA	700 µA/A
	Above 20 mA to 200 mA	500 µA/A
	Above 200 mA to 2A	1200 µA/A
	5 kHz to 10 kHz	
	100 µA to 200 µA	2.4 mA/A
	Above 200 µA to 2 mA	6.0 mA/A
	Above 2 mA to 20 mA	5.0 mA/A
	Above 20 mA to 200 mA	2.2 mA/A
	Above 200 mA to 2A	11 mA/A

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC ammeter	On-site calibration for AC current by comparison with reference ammeter in accordance with in-house procedure TPL051 at the following values or over the following ranges:	
	40 Hz, 1 kHz, 5 kHz	
	100 µA	120 µA/A
	1 mA	120 µA/A
	10 mA	120 µA/A
	100 mA	120 µA/A
	1 A	240 µA/A
	10 kHz	
	100 µA	200 µA/A
	1 mA	200 µA/A
	10 mA	200 µA/A
	100 mA	200 µA/A
	1 A	400 µA/A
	40 Hz to 5 kHz	
	100 µA to 100 mA	120 µA/A
	Above 100 mA to 1 A	240 µA/A
	5 kHz to 10 kHz	
	100 µA to 200 mA	200 µA/A
	Above 200 mA to 1 A	400 µA/A

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC ammeter	Calibration for AC current by comparison with reference ammeter in accordance with in-house procedure TPL051 at the following values or over the following ranges:	
	40 Hz, 1 kHz, 5 kHz	
	100 µA	120 µA/A
	1 mA	120 µA/A
	10 mA	120 µA/A
	100 mA	120 µA/A
	1 A	240 µA/A
	10 kHz	
	100 µA	200 µA/A
	1 mA	200 µA/A
	10 mA	200 µA/A
	100 mA	200 µA/A
	1 A	400 µA/A
	40 Hz to 5 kHz	
	100 µA to 100 mA	120 µA/A
	Above 100 mA to 1 A	240 µA/A
	5 kHz to 10 kHz	
	100 µA to 200 mA	200 µA/A
	Above 200 mA to 1 A	400 µA/A

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC ammeter	On-site calibration for AC current by measuring voltage-drop with standard resistor and reference multimeter in accordance with in-house procedure TPL047 at the following values or over the following ranges:	
	40 Hz, 1 kHz, 5 kHz	
	100 µA	120 µA/A
	1 mA	120 µA/A
	10 mA	120 µA/A
	100 mA	120 µA/A
	1 A	240 µA/A
	10 kHz	
	100 µA	200 µA/A
	1 mA	200 µA/A
	10 mA	200 µA/A
	100 mA	200 µA/A
	1 A	400 µA/A
	40 Hz to 5 kHz	
	100 µA to 100 mA	120 µA/A
	Above 100 mA to 1 A	240 µA/A
	5 kHz to 10 kHz	
	100 µA to 200 mA	200 µA/A
	Above 200 mA to 1 A	400 µA/A

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC ammeter	Calibration for AC current by measuring voltage-drop with standard resistor and reference multimeter in accordance with in-house procedure TPL047 at the following values or over the following ranges:	
	40 Hz, 1 kHz, 5 kHz	
	100 µA	120 µA/A
	1 mA	120 µA/A
	10 mA	120 µA/A
	100 mA	120 µA/A
	1 A	240 µA/A
	10 kHz	
	100 µA	200 µA/A
	1 mA	200 µA/A
	10 mA	200 µA/A
	100 mA	200 µA/A
	1 A	400 µA/A
	40 Hz to 5 kHz	
	100 µA to 100 mA	120 µA/A
	Above 100 mA to 1 A	240 µA/A
	5 kHz to 10 kHz	
	100 µA to 200 mA	200 µA/A
	Above 200 mA to 1 A	400 µA/A

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC ammeter	On-site calibration for AC current in accordance with in-house procedure TPL049 over the following ranges:	
	40 Hz to 1 kHz 1 A to 20 A	240 μA/A
	1 kHz to 5 kHz 1 A to 20 A	360 μA/A
	5 kHz to 10 kHz 1 A to 10 A	400 μA/A
	Calibration for AC current in accordance with in-house procedure TPL049 over the following ranges:	
	40 Hz to 1 kHz 1 A to 20 A	240 μA/A
	1 kHz to 5 kHz 1 A to 20 A	360 μA/A
	5 kHz to 10 kHz 1 A to 10 A	400 μA/A

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC ammeter (clamp-on type)	On-site calibration for AC current in accordance with in-house procedure TPL135 over the following ranges:	
	45 Hz to 65 Hz	
	1 A to 150 A	2000 μA/A
	Above 150 A to 200 A	5500 μA/A
	Calibration for AC current in accordance with in-house procedure TPL135 over the following ranges:	
	45 Hz to 65 Hz	
	1 A to 150 A	2000 μA/A
	Above 150 A to 200 A	5500 μA/A
	Calibration for AC current in accordance with in-house procedure TPL146 over the following range:	
	50 Hz	
	200 A to 300 A	1.2 A
	Above 300 A to 400 A	2.0 A
	Above 400 A to 1300 A	3.0 A
	Above 1300 A to 1500 A	4.0 A
	Above 1500 A to 1700 A	6.0 A
	Above 1700 A to 1800 A	8.0 A
	Above 1800 A to 1900 A	10 A
	Above 1900 A to 2000 A	12 A

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC three phase ammeter	Calibration for AC current in accordance with in-house procedure TPL102 over the following ranges of parameters:	
	45 Hz to 65 Hz 0.1 A to 150 A	50 μA/A

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC/DC current transfer instrument	Calibration for AC/DC current difference in accordance with in-house procedure TPL043 at the following values:	
	40 Hz	
	5 mA	26 μA/A
	10 mA	26 μA/A
	20 mA	26 μA/A
	30 mA	26 μA/A
	50 mA	26 μA/A
	100 mA	26 μA/A
	200 mA	26 μA/A
	300 mA	26 μA/A
	500 mA	26 μA/A
	1 A	26 μA/A
	2 A	27 μA/A
	3 A	29 μA/A
	5 A	30 μA/A
	10 A	31 μA/A
	15 A	36 μA/A
	20 A	36 μA/A
	1 kHz	
	5 mA	26 μA/A
	10 mA	26 μA/A
	20 mA	26 μA/A
	30 mA	26 μA/A
	50 mA	26 μA/A
	100 mA	26 μA/A
	200 mA	26 μA/A
	300 mA	26 μA/A
	500 mA	26 μA/A
	1 A	26 μA/A
	2 A	27 μA/A
	3 A, 5 A	30 μA/A
	10 A	31 μA/A
	15 A	34 μA/A
	20 A	33 μA/A

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC/DC current transfer instrument	Calibration for AC/DC current difference in accordance with in-house procedure TPL043 at the following values:	
	5 kHz	
	5 mA	26 μA/A
	10 mA	26 μA/A
	20 mA	26 μA/A
	30 mA	26 μA/A
	50 mA	26 μA/A
	100 mA	26 μA/A
	200 mA	26 μA/A
	300 mA	26 μA/A
	500 mA	26 μA/A
	1 A	26 μA/A
	2 A	56 μA/A
	3 A, 5 A	30 μA/A
	10 A	31 μA/A
	15 A	34 μA/A
	20 A	38 μA/A
	10 kHz	
	5 mA	26 μA/A
	10 mA	26 μA/A
	20 mA	26 μA/A
	30 mA	26 μA/A
	50 mA	26 μA/A
	100 mA	26 μA/A
	200 mA	26 μA/A
	300 mA	26 μA/A
	500 mA	30 μA/A
	1 A	30 μA/A
	2 A	56 μA/A
	3 A	30 μA/A
	5 A	30 μA/A
	10 A	31 μA/A
	15 A	34 μA/A

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- Current transformer	Calibration for the following parameters in accordance with in-house procedure TPL124:	
	- Current error over the frequency range of 45 Hz to 60 Hz with secondary current at 1 A and the following primary current:	
	1 A	0.0012 %
	5 A	0.0012 %
	10 A	0.0012 %
	20 A	0.0012 %
	50 A	0.0012 %
	100 A	0.0014 %
	1 A to 100 A	0.0050 %
	- Phase error over the frequency range of 45 Hz to 60 Hz with secondary current at 1 A and the following primary current:	
	1 A	0.17 mrad
	5 A	0.17 mrad
	10 A	0.17 mrad
	20 A	0.17 mrad
	50 A	0.17 mrad
	100 A	0.17 mrad
	1 A to 100 A	0.20 mrad

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC single phase power source	Calibration for the following parameters in accordance with in-house procedure TPL130:	
	- Active power over the following ranges of parameters: Frequency: 45 Hz to 65 Hz Power factor: 0 lead/lag to unity Voltage: 24 V to 480 V Current: 1 A to 160 A	130 μW/VA
	- Reactive power over the following ranges of parameters: Frequency: 45 Hz to 65 Hz Power factor: 0 lead/lag to unity Voltage: 24 V to 480 V Current: 1 A to 160 A	130 μvar/VA
	- Apparent power over the following ranges of parameters: Frequency: 45 Hz to 65 Hz Power factor: 0 lead/lag to unity Voltage: 24 V to 480 V Current: 1 A to 160 A	130 μVA/VA

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC three phase power source	Calibration for the following parameters in accordance with in-house procedure TPL130:	
	- Active power over the following ranges of parameters: Frequency: 45 Hz to 65 Hz Power factor: 0 lead/lag to unity Voltage: 24 V to 480 V Current: 1 A to 160 A	130 μW/VA
	- Reactive power over the following ranges of parameters: Frequency: 45 Hz to 65 Hz Power factor: 0 lead/lag to unity Voltage: 24 V to 480 V Current: 1 A to 160 A	130 μvar/VA
	- Apparent power over the following ranges of parameters: Frequency: 45 Hz to 65 Hz Power factor: 0 lead/lag to unity Voltage: 24 V to 480 V Current: 1 A to 160 A	130 μVA/VA

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC single phase wattmeter	Calibration for active power in accordance with in-house procedure TPL105 over the following ranges of parameters:	
	Frequency: 45 Hz to 65 Hz Power factor: 0 lead/lag to unity Voltage: 110 V to 120 V / 220 V to 240 V Current: 1 A, 5 A, 10 A	30 μW/VA
	50 A	35 μW/VA
	100 A	40 μW/VA
	160 A	50 μW/VA
	Frequency: 45 Hz to 65 Hz Power factor: 0 lead/lag to unity Voltage: 24 V to 480 V Current: 0.1 A to 10 A	50 μW/VA
	Above 10 A to 50 A	60 μW/VA
	Above 50 A to 100 A	70 μW/VA
	Above 100 A to 160 A	80 μW/VA
	Calibration for active power in accordance with in-house procedure TPL012 over the following ranges of parameters:	
	Frequency: 400 Hz Voltage: 75 V to 300 V Current: 0.5 A to 20 A Power factor: 0.5 lead/lag	0.037 %
	Power factor: 0.5 lead/lag to unity	0.050 %
	Power factor: unity	0.020 %

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC single phase varmeter	Calibration for reactive power in accordance with in-house procedure TPL105 over the following ranges of parameters:	
	Frequency: 45 Hz to 65 Hz Power factor: 0 lead/lag to unity Voltage: 110 V to 120 V / 220 V to 240 V Current: 1 A, 5 A, 10 A	30 µvar/VA
	50 A	35 µvar/VA
	100 A	40 µvar/VA
	160 A	50 µvar/VA
	Frequency: 45 Hz to 65 Hz Power factor: 0 lead/lag to unity Voltage: 24 V to 480 V Current: 0.1 A to 10 A	50 µvar/VA
	Above 10 A to 50 A	60 µvar/VA
	Above 50 A to 100 A	70 µvar/VA
	Above 100 A to 160 A	80 µvar/VA
- AC single phase VA meter	Calibration for apparent power in accordance with in-house procedure TPL105 over the following ranges of parameters:	
	Frequency: 45 Hz to 65 Hz Power factor: 0 lead/lag to unity Voltage: 110 V to 120 V / 220 V to 240 V Current: 1 A, 5 A, 10 A	30 µVA/VA
	50 A	35 µVA/VA
	100 A	40 µVA/VA
	160 A	50 µVA/VA
	Frequency: 45 Hz to 65 Hz Power factor: 0 lead/lag to unity Voltage: 24 V to 480 V Current: 0.1 A to 10 A	50 µVA/VA
	Above 10 A to 50 A	60 µVA/VA
	Above 50 A to 100 A	70 µVA/VA
	Above 100 A to 160 A	80 µVA/VA

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC three phase wattmeter	Calibration for active power in accordance with in-house procedure TPL102 over the following ranges of parameters:	
	Frequency: 45 Hz to 65 Hz Power factor: 0 lead/lag to unity Voltage: 110 V to 120 V / 220 V to 240 V Current: 1 A, 5 A, 10 A	50 μW/VA
	50 A	60 μW/VA
	100 A	70 μW/VA
	160 A	80 μW/VA
	Frequency: 45 Hz to 65 Hz Power factor: 0 lead/lag to unity Voltage: 24 V to 480 V Current: 0.1 A to 10 A	70 μW/VA
	Above 10 A to 50 A	80 μW/VA
	Above 50 A to 100 A	90 μW/VA
	Above 100 A to 160 A	100 μW/VA
- AC three phase varmeter	Calibration for reactive power in accordance with in-house procedure TPL102 over the following ranges of parameters:	
	Frequency: 45 Hz to 65 Hz Power factor: 0 lead/lag to unity Voltage: 110 V to 120 V / 220 V to 240 V Current: 1 A, 5 A, 10 A	50 μvar/VA
	50 A	60 μvar/VA
	100 A	70 μvar/VA
	160 A	80 μvar/VA
	Frequency: 45 Hz to 65 Hz Power factor: 0 lead/lag to unity Voltage: 24 V to 480 V Current: 0.1 A to 10 A	70 μvar/VA
	Above 10 A to 50 A	80 μvar/VA
	Above 50 A to 100 A	90 μvar/VA
	Above 100 A to 160 A	100 μvar/VA

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED[@]** 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC three phase VA meter	Calibration for apparent power in accordance with in-house procedure TPL102 over the following ranges of parameters:	
	Frequency: 45 Hz to 65 Hz Power factor: 0 lead/lag to unity Voltage: 110 V to 120 V / 220 V to 240 V Current: 1 A, 5 A, 10 A	50 μVA/VA
	50 A	60 μVA/VA
	100 A	70 μVA/VA
	160 A	80 μVA/VA
	Frequency: 45 Hz to 65 Hz Power factor: 0 lead/lag to unity Voltage: 24 V to 480 V Current: 0.1 A to 10 A	70 μVA/VA
	Above 10 A to 50 A	80 μVA/VA
	Above 50 A to 100 A	90 μVA/VA
	Above 100 A to 160 A	100 μVA/VA

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC three phase energy source	Calibration for the following parameters in accordance with in-house procedure TPL131:	
	- Energy in watt-hour over the following ranges of parameters: Frequency: 45 Hz to 65 Hz Power factor: 0 lead/lag to unity Voltage: 24 V to 480 V Current: 1 A to 160 A	150 μWh/VAh
	- Energy in var-hour over the following ranges of parameters: Frequency: 45 Hz to 65 Hz Power factor: 0 lead/lag to unity Voltage: 24 V to 480 V Current: 1 A to 160 A	150 μvarh/VAh
	- Energy in VA-hour over the following ranges of parameters: Frequency: 45 Hz to 65 Hz Power factor: 0 lead/lag to unity Voltage: 24 V to 480 V Current: 1 A to 160 A	150 μVAh/VAh

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC single phase watt-hour meter	Calibration for AC energy in accordance with in-house procedure TPL125 over the following ranges of parameters: Frequency: 45 Hz to 65 Hz Power factor: 0 lead/lag to unity Measuring time: 1 s to 1 h Voltage: 24 V to 480 V Current: 1 A to 55 A Above 55 A to 160 A	 2.0 mWh/VAh 6.0 mWh/VAh
- AC single phase var-hour meter	Calibration for AC energy in accordance with in-house procedure TPL125 over the following ranges of parameters: Frequency: 45 Hz to 65 Hz Power factor: 0 lead/lag to unity Measuring time: 1 s to 1 h Voltage: 24 V to 480 V Current: 1 A to 55 A Above 55 A to 160 A	 2.0 mvarh/VAh 6.0 mvarh/VAh
- AC single phase VA-hour meter	Calibration for AC energy in accordance with in-house procedure TPL125 over the following ranges of parameters: Frequency: 45 Hz to 65 Hz Power factor: 0 lead/lag to unity Measuring time: 1 s to 1 h Voltage: 24 V to 480 V Current: 1 A to 55 A Above 55 A to 160 A	 2.0 mVAh/VAh 6.0 mVAh/VAh

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- AC three phase watt-hour meter	Calibration for AC energy in accordance with in-house procedure TPL101 over the following ranges of parameters:	
	Frequency: 45 Hz to 65 Hz Power factor: 0 lead/lag to unity Measuring time: 1 s to 1 h Voltage: 24 V to 480 V Current: 1 A to 55 A Above 55 A to 160 A	 2.0 mWh/VAh 6.0 mWh/VAh
- AC three phase var-hour meter	Calibration for AC energy in accordance with in-house procedure TPL101 over the following ranges of parameters:	
	Frequency: 45 Hz to 65 Hz Power factor: 0 lead/lag to unity Measuring time: 1 s to 1 h Voltage: 24 V to 480 V Current: 1 A to 55 A Above 55 A to 160 A	 2.0 mvarh/VAh 6.0 mvarh/VAh
- AC three phase VA-hour meter	Calibration for AC energy in accordance with in-house procedure TPL101 over the following ranges of parameters:	
	Frequency: 45 Hz to 65 Hz Power factor: 0 lead/lag to unity Measuring time: 1 s to 1 h Voltage: 24 V to 480 V Current: 1 A to 55 A Above 55 A to 160 A	 2.0 mVAh/VAh 6.0 mVAh/VAh

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- Capacitor	Calibration for capacitance in accordance with in-house procedure TPL069 at the following values or over the following ranges:	
	50 Hz to 100 Hz 1 pF to 10 pF	400 μF/F
	100 Hz to 10 kHz 1 pF to 10 pF	200 μF/F
	400 Hz to 10 kHz Above 10 pF to 1 nF	20 μF/F

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- Capacitor	Calibration for capacitance in accordance with in-house procedure TPL005 at the following values:	
	400 Hz	
	10 pF	5.0 μF/F
	100 pF	5.0 μF/F
	1 nF	5.0 μF/F
	10 nF	77 μF/F
	100 nF	77 μF/F
	1 μF	99 μF/F
	1 kHz	
	10 pF	5.0 μF/F
	100 pF	5.0 μF/F
	1 nF	5.0 μF/F
	10 nF	66 μF/F
	100 nF	66 μF/F
	1 μF	84 μF/F
	10 kHz	
	10 pF	8.0 μF/F
	100 pF	5.3 μF/F
	1 nF	5.3 μF/F
	10 nF	230 μF/F
	100 nF	230 μF/F
	1 μF	350 μF/F
	Calibration for capacitance in accordance with in-house procedure TPL061 at the following values:	
	1 kHz	
	10 pF	5.0 μF/F
	100 pF	5.0 μF/F
	1 nF	5.0 μF/F
	10 nF	66 μF/F
	100 nF	66 μF/F
	1 μF	84 μF/F

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- Capacitor	Calibration for capacitance in accordance with in-house procedure TPL065 at the following values and ranges:	
	100 Hz	
	10 µF	700 µF/F
	400 Hz	
	10 pF	500 µF/F
	100 pF	200 µF/F
	1 nF	200 µF/F
	10 nF	200 µF/F
	100 nF	200 µF/F
	1 µF	200 µF/F
	1 kHz	
	10 pF	300 µF/F
	100 pF	200 µF/F
	1 nF	200 µF/F
	10 nF	200 µF/F
	100 nF	200 µF/F
	1 µF	200 µF/F
	10 µF	700 µF/F
	10 kHz	
	10 pF	200 µF/F
	100 pF	200 µF/F
	1 nF	200 µF/F
	10 nF	230 µF/F
	100 nF	230 µF/F
	1 µF	400 µF/F

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- Capacitor	Calibration for capacitance in accordance with in-house procedure TPL065 at the following values or over the following ranges:	
	100 Hz to 1 kHz	
	10 µF	700 µF/F
	400 Hz to 1 kHz	
	10 pF to 1 µF	700 µF/F
	1 kHz to 10 kHz	
	10 pF to 0.05 µF	700 µF/F
	Above 0.05 µF to 1 µF	2000 µF/F
	Calibration for capacitance in accordance with in-house procedure TPL004 over the following ranges:	
	50 Hz to 100 Hz	
	10 pF to 100 pF	1000 µF/F
	Above 100 pF to 1.11 µF	100 µF/F
	100 Hz to 1 kHz	
	10 pF to 1.11 µF	100 µF/F
	1 kHz to 10 kHz	
	10 pF to 100 pF	200 µF/F
	Above 100 pF to 0.05 µF	250 µF/F
	Above 0.05 µF to 1.11 µF	2000 µF/F
	Calibration for capacitance in accordance with in-house procedure TPL060 over the following ranges:	
	1 kHz	
	10 pF to 1 nF	15 µF/F
	Above 1 nF to 1 µF	100 µF/F

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- Inductor	Calibration for inductance in accordance with in-house procedure TPL063 at the following values or over the following ranges:	
	400 Hz	
	100 µH	180 µH/H
	1 mH	200 µH/H
	10 mH, 100 mH, 1 H	140 µH/H
	100 µH to 1 H	500 µH/H
	1 kHz	
	100 µH	140 µH/H
	1 mH	180 µH/H
	10 mH, 100 mH, 1 H	140 µH/H
	100 µH to 1 H	500 µH/H
	10 kHz	
	100 µH, 1 mH, 10 mH	270 µH/H
	100 mH	350 µH/H
	100 µH to 100 mH	500 µH/H
- Phase generator	Calibration for phase accuracy in accordance with in-house procedure TPL071 over the following ratios:	
	40 Hz to 100 kHz	
	voltage ratio 1:1	0.0020°
	voltage ratio 1:10	0.0025°

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- Phasemeter	Calibration for phase over the voltage of 0.1 V to 100 V with equal input levels in accordance with in-house procedure TPL028 over the following ranges:	
	40 Hz to 1 kHz 0° to 360°	0.020°
	1 kHz to 6.25 kHz 0° to 360°	0.040°
	6.25 kHz to 50 kHz 0° to 360°	0.060°
	50 kHz to 100 kHz 0° to 360°	0.10°
	Calibration for phase over the voltage of 0.1 V to 100 V with equal input levels in accordance with in-house procedure TPL072 over the following ranges:	
	40 Hz to 1 kHz 0° to 360°	0.020°
	1 kHz to 6.25 kHz 0° to 360°	0.040°
	6.25 kHz to 50 kHz 0° to 360°	0.060°
	50 kHz to 100 kHz 0° to 360°	0.10°

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- Distortion meter	Calibration for distortion in accordance with in-house procedure TPL086 over the following ranges:	
	40 Hz to 50 kHz -10 dB to -60 dB	0.20 dB
	50 kHz to 100 kHz -10 dB to -50 dB -50 dB to -60 dB	0.20 dB 0.50 dB
	40 Hz to 20 kHz -60 dB to -70 dB	0.60 dB
- Power factor meter	Calibration for power factor in accordance with in-house procedure TPL070 over the following ranges of parameters:	
	Voltage: 25 V to 250 V Current: 50 mA to 100 A Frequency: 50 Hz and 60 Hz Power factor: 0.0 lead/lag to 0.5 lead/lag Above 0.5 lead/lag to 0.9 lead/lag Above 0.9 lead/lag to unity	 0.0040 0.0030 0.0020

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- Withstanding voltage tester	Calibration for the following parameters in accordance with in-house procedure TPL081:	
	- DC output voltage:	
	1 kV to 5 kV	6.0 V
	Above 5 kV to 11 kV	7.0 V
	- AC output voltage:	
	1 kV to 2 kV	6.0 V
	Above 2 kV to 5 kV	7.0 V
	Above 5 kV to 7 kV	8.0 V
	Above 7 kV to 9 kV	9.0 V
	Above 9 kV to 11 kV	10 V
	- DC leak current:	
	0.5 mA to 100 mA	0.040 %
	- AC leak current:	
	0.5 mA to 100 mA	0.080 %
- LCR meter	Calibration for the following parameters in accordance with in-house procedure TPL064:	
	- Resistance:	
	1 kHz	
	1 Ω to 10 kΩ	20 μΩ/Ω
	- Capacitance:	
	1 kHz	
	10 pF to 1 nF	15 μF/F
	Above 1 nF to 1 μF	100 μF/F
	- Inductance:	
	1 kHz	
	100 μH to 1 H	100 μH/H

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- Electrostatic meter	Calibration for DC voltage at distance not exceeding 100 mm from the calibration plane in accordance with in-house procedure TPD057 over the following range:	
	10 V to 50 kV	1.2×10^{-2}
	Calibration for DC voltage at distance not exceeding 30 mm from the calibration plane in accordance with in-house procedure TPD049 over the following range:	
	1 kV to 30 kV	0.023 kV to 0.69 kV

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- Electrometer	Calibration for the following parameters in accordance with in-house procedure TPD059:	
	- DC voltage:	
	1 V to 1 kV	20 μV to 20 mV
	- DC current:	
	1 pA to 20 pA	0.025 pA to 0.20 pA
	Above 20 pA to 200 pA	0.20 pA
	Above 200 pA to 2 nA	0.20 pA to 2.0 pA
	Above 2 nA to 20 nA	2.0 pA to 0.010 nA
	Above 20 nA to 20 μA	0.010 nA to 0.010 μA
	Above 20 μA to 20 mA	0.010 μA to 2.0 μA
	- Charge:	
	0.1 nC to 2 nC	0.1 pC to 2.5 pC
	Above 2 nC to 20 nC	2.5 pC to 6.0 pC
	Above 20 nC to 200 nC	6.0 pC to 60 pC
	Above 200 nC to 2 μC	60 pC to 0.60 nC
	- Resistance:	
	1 MΩ to 20 MΩ	1.0 kΩ to 20 kΩ
	Above 20 MΩ to 100 MΩ	20 kΩ to 50 kΩ
	Above 100 MΩ to 100 GΩ	50 kΩ to 0.10 GΩ
	Above 100 GΩ to 1 TΩ	0.10 GΩ to 3.0 GΩ
	Above 1 TΩ to 10 TΩ	3.0 GΩ to 35 GΩ
	- DC output voltage (voltage source):	
	0.1 mV to 1 kV	0.15 μV to 20 mV

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- Residual-current device (RCD) tester	Calibration for the following parameters in accordance with in-house procedure TPD077:	
	- AC residual current:	
	5 mA to 1 A	0.50 %
	Above 1 A to 2.5 A	2.2 %
	Above 2.5 A to 5 A	3.5 %
	- Residual pulsating DC current:	
	20 mA to 1.406 A	1.2 %
	- Ramping AC residual current:	
	2 mA to 4 mA	2.2 %
	Above 4 mA to 40 mA	1.3 %
	Above 40 mA to 550 mA	1.0 %
	- Tripping time:	
	10 ms to 40 ms	0.70 ms
	Above 40 ms to 160 ms	0.80 ms
	Above 160 ms to 430 ms	1.0 ms
	Above 430 ms to 1000 ms	2.2 ms

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED[@]** 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- Harmonics source	Calibration for harmonic voltage in accordance with in-house procedure TPL116 over the following ranges of parameters:	
	Frequency: 50 Hz / 60 Hz Harmonic order: 2nd to 100th Phase: ±(0 to 180)°	
	Harmonic voltage: 10 V to 12 V	0.030 %
	20 V to 24 V	0.030 %
	Calibration for harmonic voltage in accordance with in-house procedure TPL128 over the following ranges of parameters:	
	Frequency: 50 Hz / 60 Hz Harmonic order: 2nd to 100th Phase: ±(0 to 180)°	
	Harmonic voltage: 10 V to 12 V	0.030 %
	20 V to 24 V	0.030 %

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED[@]** 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- Harmonics source	Calibration for harmonic current in accordance with in-house procedure TPL117 over the following ranges of parameters:	
	Frequency: 50 Hz / 60 Hz Harmonic order: 2nd to 100th Phase: ±(0 to 180)°	
	Harmonic current: 10 mA to 20 mA	0.24 %
	Above 20 mA to 0.2 A	0.18 %
	Above 0.2 A to 6 A	0.24 %
	Calibration for harmonic current in accordance with in-house procedure TPL129 over the following ranges of parameters:	
	Frequency: 50 Hz / 60 Hz Harmonic order: 2nd to 100th Phase: ±(0 to 180)°	
	Harmonic current: 10 mA to 20 mA	0.24 %
	Above 20 mA to 0.2 A	0.18 %
	Above 0.2 A to 6 A	0.24 %

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- Harmonics analyzer	Calibration for harmonic voltage in accordance with in-house procedure TPL114 over the following ranges of parameters:	
	Frequency: 50 Hz / 60 Hz Harmonic order: 2nd to 45th Phase: ±(0 to 180)°	
	Harmonic voltage: 10 V to 12 V	0.30 %
	20 V to 24 V	0.30 %
	Calibration for harmonic current in accordance with in-house procedure TPL110 over the following values of parameters:	
	Frequency: 50 Hz / 60 Hz Harmonic order: 2nd to 45th Phase: ±(0 to 180)°	
	Harmonic current: 4 A	0.80 %
	Calibration for harmonic current in accordance with in-house procedure TPL115 over the following ranges of parameters:	
	Frequency: 50 Hz / 60 Hz Harmonic order: 2nd to 45th Phase: ±(0 to 180)°	
	Harmonic current: 3 mA to 75 mA	3.0 %
	Above 75 mA to 3 A	0.50 %
	Above 3 A to 6 A	0.80 %

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- Flicker source	Calibration for modulation depth in accordance with in-house procedure TPL126: over the following ranges of parameters: Modulation waveform: Sinusoidal Voltage: 120 V / 240 V Frequency: 50 Hz / 60 Hz Phase: 0° Modulating frequency: 5 Hz to 25 Hz Modulation depth: 0.25 % to 1 %	0.010 % to 0.060 %
	Calibration for modulation depth in accordance with in-house procedure TPL136: over the following ranges of parameters: Modulation waveform: Rectangular Voltage: 120 V / 230 V Frequency: 50 Hz / 60 Hz Phase: 0° Modulating frequency: 1 Hz to 25 Hz Modulation depth: 0.25 % to 1 %	0.035 %
- Flicker meter	Calibration for short-term flicker severity (Pst) and long-term flicker severity (Plt) in accordance with in-house procedure TPL112 over the following ranges of parameters: Modulation waveform: Rectangular Voltage: 230 V Frequency: 50 Hz Depth: 0.001 % to 60 % Duty cycle: 0.01 % to 99.99 %	
	Short-term flicker severity (Pst)	0.0030
	Long-term flicker severity (Plt)	0.0030

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- Electrocardiograph (ECG) analyser	Calibration for voltage level in accordance with in-house procedure TPL143 over the following ranges of parameters:	
	Waveform: Sinusoidal Frequency: 10 Hz to 200 Hz	
	Voltage level: 1 mV to 5 mV	0.30 %
	Calibration for deviation voltage in accordance with in-house procedure TPD143 over the following range:	
	0.05 mV to 0.8 mV	2.0 µV to 32 µV
	Calibration for interval timing in accordance with in-house procedure TPD143 over the following ranges:	
	QRS interval 40 ms to 120 ms	0.5 ms
	RR interval 0.5 s to 5 s	0.5 ms

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- Non-invasive pacer	Calibration for pulse amplitude in accordance with in-house procedure TPD143 over the following ranges:	
	0.1 V to 10 V	0.05 mV to 5 mV
	1 mA to 100 mA	0.5 µA to 50 µA
	Calibration for pulse timing in accordance with in-house procedure TPD143 over the following ranges:	
	Pulse width	
	1 ms to 20 ms	50 µs
	Pulse interval	
	0.5 s to 5 s	50 µs
	Pulse rate	
	30 bpm to 300 bpm	0.003 bpm

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- Electrical safety analyzer	Calibration for the following parameters in accordance with in-house procedure TPL141:	
	- Accessible voltage:	
	50 Hz	
	1 V to 300 V	0.10 V
	- Mains voltage:	
	50 Hz	
	1 mV to 0.1 V	0.10 V
	220 V	0.20 V
	230 V	0.20 V
	240 V	0.20 V
	- Protective earth resistance:	
	0.5 Ω to 2 Ω	0.0030 Ω
	- Insulation resistance:	
	1 MΩ to 23 MΩ	0.10 MΩ
	Above 23 MΩ to 100 MΩ	0.20 MΩ
	- Leakage current:	
	50 Hz	
	10 μA to 199.9 μA	0.10 μA
	200 μA to 1999 μA	1.0 μA
	2 mA to 10 mA	10 μA
	- Equipment current:	
	50 Hz	
	1 A to 6.5 A	0.10 A

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- Electrical safety analyzer	Calibration for the following parameters in accordance with in-house procedure TPL141:	
	- Point to point voltage 50 Hz 1 V to 300 V	 0.10 V
	- Point to point current: 50 Hz 10 μA to 199.9 μA 200 μA to 1999 μA 2 mA to 10 mA	 0.10 μA 1.0 μA 10 μA
	- Point to point resistance: 0.5 Ω to 2 Ω	 0.0030 Ω
- Defibrillator analyzer	Calibration for biphasic energy in accordance with in-house procedure TPL142 over the following ranges:	
	150 J to 200 J Above 200 J to 300 J Above 300 J to 360 J	1.0 J 1.5 J 2.0 J
- Programmable filter	Calibration for passband attenuation and stopband attenuation in accordance with in-house procedure TPL127 over the following ranges of parameters:	
	Voltage: 3.2 V Frequency: 20 Hz to 25 kHz	
	Passband attenuation: 0 dB to -10 dB Stopband attenuation : 0 dB to -80 dB	0.010 dB 0.20 dB

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED[@]** 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- DC & LF measurements		
- SINAD meter	Calibration for signal-to-noise and distortion ratio (SINAD) in accordance with in-house procedure TPL132 over the following ranges of parameters:	
	Voltage level: 1 V to 6.4 V Frequency: 40 Hz, 1 kHz, 10 kHz	
	Signal-to-noise and distortion ratio (SINAD): 10 dB to 70 dB	0.30 dB
	Voltage level: 1 V to 6.4 V Frequency: 20 kHz, 40 kHz	
	Signal-to-noise and distortion ratio (SINAD): 10 dB to 60 dB Above 60 dB to 70 dB	0.30 dB 0.80 dB
- Strain gauge meter	Calibration for voltage ratio in accordance with in-house procedure TPL133 at the following voltage levels:	
	Test frequency: 40 Hz to 1 kHz Voltage level: 2.5 V, 5 V, 10 V	
	0.1 mV/V to 10 mV/V	1.0 μV/V

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- Time and frequency measurements		
- Laboratory reference time scale UTC(SCL)	Calibration for the difference in Coordinated Universal Time (UTC – UTC(SCL)) in accordance with in-house procedure TPR001:	0.1 μs
- Time scale difference	Calibration for time interval difference from laboratory reference time scale UTC(SCL) in accordance with in-house procedure TPR001 over the following range:	
	1 ns to 1 s	1 ns

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- Time and frequency measurements		
- Frequency standard	Calibration for the following parameters in accordance with in-house procedure TPR002:	
	- Frequency at the following values:	
	100 kHz	2.0×10^{-13} of result
	1 MHz	8.2×10^{-14} of result
	5 MHz	8.0×10^{-14} of result
	10 MHz	8.0×10^{-14} of result
		for $\tau \geq 5$ days, where τ is the averaging time
	- Drift rate per day at the following frequencies:	
	100 kHz	2×10^{-13} of result
	1 MHz	2×10^{-13} of result
	5 MHz	2×10^{-13} of result
	10 MHz	2×10^{-13} of result
		for $\tau = 1$ day, where τ is the averaging time
	Calibration for the following parameters in accordance with in-house procedure TPR049:	
	- Frequency at the following values:	
	1 MHz	8.2×10^{-14} of result
	5 MHz	8.0×10^{-14} of result
	10 MHz	8.0×10^{-14} of result
		for $\tau \geq 5$ days, where τ is the averaging time
	- Drift rate per day at the following frequencies:	
	1 MHz	2×10^{-13} of result
	5 MHz	2×10^{-13} of result
	10 MHz	2×10^{-13} of result
		for $\tau = 1$ day, where τ is the averaging time

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- Time and frequency measurements		
- Frequency source	Calibration for frequency in accordance with in-house procedure TPR004 over the following ranges:	
	1 Hz to 1 kHz	4×10^{-6} to 3×10^{-9} of result
	Above 1 kHz to 1 MHz	3×10^{-9} to 5×10^{-11} of result
	Above 1 MHz to 1.3 GHz	5×10^{-11} of result
	Above 1.3 GHz to 10 GHz	6×10^{-10} to 2×10^{-10} of result
	Above 10 GHz to 26.5 GHz	2×10^{-10} to 1×10^{-10} of result
	Calibration for frequency in accordance with in-house procedure TPR073 over the following range:	
	12.4 GHz to 40 GHz	1×10^{-10} of result
- Frequency counter	Calibration for frequency in accordance with in-house procedure TPR003 over the following ranges:	
	1 Hz to 1 kHz	4×10^{-6} to 3×10^{-9} of result
	Above 1 kHz to 1 MHz	3×10^{-9} to 6.1×10^{-11} of result
	Above 1 MHz to 1.3 GHz	6.1×10^{-11} of result
	Above 1.3 GHz to 10 GHz	6.1×10^{-10} to 2×10^{-10} of result
	Above 10 GHz to 26.5 GHz	2×10^{-10} to 1×10^{-10} of result
	Calibration for frequency in accordance with in-house procedure TPR081 over the following range:	
	18 GHz to 40 GHz	1×10^{-10} of result

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- Time and frequency measurements		
- Flashing light source	Calibration for the following parameters in accordance with in-house procedure TPR084	
	- Frequency over the following range: 1 Hz to 1 kHz	4×10^{-6} to 3×10^{-9} of result
	- Period over the following range: 1 ms to 1 s	3×10^{-9} to 4×10^{-6} of result
- Two flashing light source	Calibration for time interval in accordance with in-house procedure TPR085 over the following range:	
	Above 0.05 μs to 999 s	3.0 ns

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- Time and frequency measurements		
- Period source	Calibration for period in accordance with in-house procedure TPR073 over the following range:	
	25 ps to 81 ps	1×10^{-10} of result
	Calibration for period in accordance with in-house procedure TPR004 over the following ranges:	
	Above 38 ps to 100 ps	1×10^{-10} to 2×10^{-10} of result
	Above 100 ps to 769 ps	2×10^{-10} to 6×10^{-10} of result
	Above 769 ps to 1 μs	5×10^{-11} of result
	Above 1 μs to 1 ms	5×10^{-11} to 3×10^{-9} of result
	Above 1 ms to 1 s	3×10^{-9} to 4×10^{-6} of result
- Period meter	Calibration for period in accordance with in-house procedure TPR081 over the following range:	
	25 ps to 56 ps	1×10^{-10} of result
	Calibration for period in accordance with in-house procedure TPR003 over the following ranges:	
	38 ps to 100 ps	1×10^{-10} to 2×10^{-10} of result
	Above 100 ps to 769 ps	2×10^{-10} to 6.1×10^{-10} of result
	Above 769 ps to 1 μs	6.1×10^{-11} of result
	Above 1 μs to 1 ms	6.1×10^{-11} to 3×10^{-9} of result
	Above 1 ms to 1 s	3×10^{-9} to 4×10^{-6} of result

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- Time and frequency measurements		
- Time difference source	Calibration for time interval in accordance with in-house procedure TPR005 over the following ranges:	
	1 ns to 1 s	1 ns
	Above 1 s to 999 s	1 ns to 3 ns
- Time difference meter	Calibration for time interval in accordance with in-house procedure TPR005 over the following ranges:	
	1 ns to 1 s	1 ns
	Above 1 s to 999 s	1 ns to 15 ns

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- Time and frequency measurements		
- Timing device	Calibration for the following parameters in accordance with in-house procedure TPR056	
	- Relative accuracy:	
	10 ms to below 100 ms	2×10^{-1}
	100 ms to below 1 s	2×10^{-2}
	1 s to below 10 s	2×10^{-3}
	10 s to below 100 s	2×10^{-4}
	100 s to below 1,000 s	2×10^{-5}
	1,000 s to below 10,000 s	2×10^{-6}
	10,000 s to below 9,999,999.999 s	2×10^{-7}
- Electronic stop watch (with resolution ≥ 0.001 s) (maximum measuring time interval of 9,999,999.999 s (~115 days))	Calibration for relative accuracy in accordance with in-house procedure TPR056 for a calibration period of 7 hours	2×10^{-7}
- Quartz watch tester	Calibration for the following parameters in accordance with in-house procedure TPR066:	
	- Relative time accuracy over the following range:	
	+8 sec per day to -8 sec per day	0.01 sec per day
	- Relative frequency accuracy over the following range of frequencies:	
	32765 Hz to 32771 Hz	3×10^{-7}

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- Time and frequency measurements		
- Mechanical watch tester	Calibration for the following parameters in accordance with in-house procedure TPR067:	
	- Relative time accuracy over the following range: +8 sec per day to -8 sec per day	0.05 sec per day
	- Relative frequency accuracy in beats per hour (BPH) over the following range: 14400 BPH to 36000 BPH	1.5×10^{-6}
- Metronome	Calibration for frequency in beats per minute (BPM) in accordance with in-house procedure TPR069 at the following values:	
	60 BPM	2×10^{-4} BPM
	120 BPM	2×10^{-4} BPM
	150 BPM	2×10^{-4} BPM
	180 BPM	2×10^{-4} BPM
	200 BPM	2×10^{-4} BPM
	240 BPM	2×10^{-4} BPM

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- Radio Frequency (RF) measurements		
- Voltage source	Calibration for voltage in accordance with in-house procedure TPR039: over the following ranges:	
	DC and up to 2.5 GHz AC 50 Ω 4 mV to 5 V	1.2 %
	DC and up to 2.5 GHz AC 1 MΩ 0.8 V to 40 V	1.2 %
- Power source fitted with 50 Ω type N connector	Calibration for power in accordance with in-house procedure TPR010 over the following ranges:	
	10 kHz to 30 MHz 10 nW to 10 µW Above 10 µW to 100 mW	 1.3 % to 4.5 % 1.3 % to 4.0 %
	30 MHz to 3 GHz 10 nW to 10 µW Above 10 µW to 100 mW	 1.0 % to 3.8 % 1.0 % to 3.1 %
	3 GHz to 18 GHz 10 nW to 10 µW Above 10 µW to 100 mW	 2.3 % to 7.7 % 2.3 % to 7.4 %
	Calibration for power in accordance with in-house procedure TPR025 over the following ranges:	
	100 Hz to 3 GHz -100 dBm to +20 dBm	 1.2 dB
	3 GHz to 18 GHz -100 dBm to +20 dBm	 2.0 dB

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- RF measurements		
- High Level RF Power source fitted with 50 Ω type N connector	Calibration for power in accordance with in-house procedure TPR036 over the following ranges:	
	1 MHz to below 50 MHz 1 W to 30 W	(-0.026*f* + 5.31)% *f* is the value of test frequency in MHz
	50 MHz to 1 GHz 1 W to 30 W	(0.00172*f* + 2.715)% *f* is the value of test frequency in MHz
	above 1 GHz to below 3 GHz 1 W to 5 W	2.4 %
	3 GHz to 4 GHz 1 W to 5 W	(0.801*f* - 0.00257)% *f* is the value of test frequency in GHz
	above 4 GHz to 4.2 GHz 1 W to 5 W	3.2 %
	above 4.2 GHz to below 6 GHz 1 W to 10 W	3.2 %
	above 6 GHz to 10 GHz 1 W to 10 W	(0.093*f* + 2.642)% *f* is the value of test frequency in GHz
	above 10 GHz to 18 GHz 1 W to 10 W	(0.061*f* + 2.97)% *f* is the value of test frequency in GHz

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- RF measurements		
- Power meter fitted with 50 Ω type N connector	Calibration for power in accordance with in-house procedure TPR009 over the following ranges:	
	10 kHz to 30 MHz	
	10 nW to 10 µW	1.4 % to 4.5 %
	Above 10 µW to 100 mW	1.4 % to 4.0 %
	30 MHz to 3 GHz	
	10 nW to 10 µW	1.0 % to 3.8 %
	Above 10 µW to 100 mW	1.0 % to 3.1 %
	3 GHz to 18 GHz	
	10 nW to 10 µW	1.9 % to 7.4 %
	Above 10 µW to 100 mW	1.9 % to 7.0 %
	Calibration for power in accordance with in-house procedure TPR025 over the following ranges:	
	100 Hz to 3 GHz	
	-100 dBm to +20 dBm	1.2 dB
	3 GHz to 18 GHz	
	-100 dBm to +20 dBm	2.0 dB
- High level RF power meter fitted with 50 Ω type N connector	Calibration for power in accordance with in-house procedure TPR035 over the following ranges:	
	1 MHz to 1 GHz	
	23 dBm to 44 dBm	0.60 dB
	1 GHz to 4.2 GHz	
	23 dBm to 37 dBm	0.60 dB
	4.2 GHz to 18 GHz	
	23 dBm to 40 dBm	0.60 dB

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- RF measurements		
- Power meter fitted with 50 Ω 3.5 mm connector	Calibration for power in accordance with in-house procedure TPR045 over the following range:	
	50 MHz to 26.5 GHz 10 nW to 1 mW	5.7 % to 7.0 %
- Power source fitted with 50 Ω 3.5 mm connector	Calibration for power in accordance with in-house procedure TPR046 over the following range:	
	50 MHz to 26.5 GHz 10 nW to 1 mW	1.3 % to 4.5 %
- Power meter fitted with 50 Ω 2.4 mm connector	Calibration for power in accordance with in-house procedure TPR082 over the following range:	
	50 MHz to 100 MHz 10 μW to 1 mW	3.1 % to 3.4 %
	100 MHz to 10 GHz 10 μW to 1 mW	4.0 % to 4.9 %
	10 GHz to 26.5 GHz 10 μW to 1 mW	5.3 % to 7.0 %
	26.5 GHz to 40 GHz 10 μW to 1 mW	9.0 % to 9.7 %
- Power source fitted with 50 Ω 2.4 mm connector	Calibration for power in accordance with in-house procedure TPR078 over the following range:	
	50 MHz to 40 GHz 10 μW to 100 mW	1.1 % to 8.2 %

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- RF measurements		
- Power amplifier with input and output ports fitted with 50 Ω type N / 3.5 mm / 2.4 mm connectors	Calibration for power gain in accordance with in-house procedure TPR402 over the following ranges:	
	10 kHz to below 1 MHz -100 dBm to 20 dBm	0.10 dB to 2.6 dB
	1 MHz to 50 MHz -100 dBm to 44.8 dBm	0.07 dB to 2.6 dB
	Above 50 MHz to 1 GHz -100 dBm to 44.8 dBm	0.09 dB to 2.6 dB
	Above 1 GHz to 3 GHz -100 dBm to 44.8 dBm	0.12 dB to 2.6 dB
	Above 3 GHz to 4.2 GHz -100 dBm to 37 dBm	0.12 dB to 7.7 dB
	Above 4.2 GHz to 18 GHz -100 dBm to 40 dBm	0.19 dB to 7.7 dB
	Above 18 GHz to 26.5 GHz -50 dBm to 20 dBm	0.21 dB to 0.44 dB
	Above 26.5 GHz to 40 GHz -50 dBm to 20 dBm	0.23 dB to 0.59 dB

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- RF measurements		
- Thermistor mount power sensor fitted with 50 Ω type N connector	Calibration for effective efficiency and calibration factor by using micro-calorimeter in accordance with in-house procedure TPR401 over the following range:	
	10 MHz to below 30 MHz 0.7 to 1.2	0.003
	30 MHz to below 1 GHz 0.7 to 1.2	0.004
	1 GHz to below 2 GHz 0.7 to 1.2	0.006
	2 GHz to below 15 GHz 0.7 to 1.2	0.005
	15 GHz to 18 GHz 0.7 to 1.2	0.006

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- RF measurements		
- Thermistor mount power sensor fitted with 50 Ω type N connector	Calibration for effective efficiency at 10 mW and calibration factor by using direct method in accordance with in-house procedure TPR055 over the following range:	
	10 MHz to below 30 MHz 0.7 to 1.2	0.0059
	30 MHz to 100 MHz 0.7 to 1.2	0.0040
	above 100 MHz to 300 MHz 0.7 to 1.2	0.0045
	above 300 MHz to 1 GHz 0.7 to 1.2	0.0051
	above 1 GHz to 3 GHz 0.7 to 1.2	0.0061
	above 3 GHz to 4 GHz 0.7 to 1.2	0.0076
	above 4 GHz to 12 GHz 0.7 to 1.2	0.016
	above 12 GHz to 18 GHz 0.7 to 1.2	0.019

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- RF measurements		
- Thermal power sensor fitted with 50 Ω 2.4 mm coaxial connector	Calibration for effective efficiency and calibration factor by using micro-calorimeter in accordance with in-house procedure TPR403 over the following ranges:	
	10 MHz to below 500 MHz 0.7 to 1.2	0.014
	500 MHz to 15 GHz 0.7 to 1.2	0.012
	above 15 GHz to 21 GHz 0.7 to 1.2	0.016
	above 21 GHz to 35 GHz 0.7 to 1.2	0.020
	above 35 GHz to 50 GHz 0.7 to 1.2	0.025

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- RF measurements		
- Coaxial power sensor fitted with 50 Ω type N connector	Calibration for power in accordance with in-house procedure TPR008 at the following values:	
	10 kHz to 30 MHz	
	10 μW	1.0 % to 3.2 %
	10 mW	1.0 % to 3.2 %
	30 MHz to 3 GHz	
	10 μW	1.0 % to 1.8 %
	10 mW	0.8 % to 1.2 %
	3 GHz to 18 GHz	
	10 μW	1.8 % to 3.9 %
	10 mW	1.2 % to 3.3 %
- Coaxial power sensor fitted with 50 Ω 2.4 mm connector	Calibration for calibration factor at 1 mW in accordance with in-house procedure TPR074 over the following ranges:	
	50 MHz to 2 GHz	
	0.8 to 1.2	2.3 %
	Above 2 GHz to 40 GHz	
	0.8 to 1.2	3.7 %

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- RF measurements		
- Coaxial system fitted with 50 Ω type N connector	Calibration for the following parameters in accordance with in-house procedure TPR030:	
	- Voltage reflection coefficient phase over the following ranges:	
	300 kHz to 45 MHz	
	-180° to +180°	1.5° to 180°
	45 MHz to 2 GHz	
	-180° to +180°	0.7° to 180°
	2 GHz to 8 GHz	
	-180° to +180°	1.3° to 180°
	8 GHz to 18 GHz	
	-180° to +180°	2.5° to 180°
	- Voltage reflection coefficient magnitude over the following ranges:	
	300 kHz to 45 MHz	
	0.000 to 1.000	0.0080 to 0.029
	45 MHz to 2 GHz	
	0.000 to 1.000	0.0066 to 0.010
	2 GHz to 8 GHz	
	0.000 to 1.000	0.011 to 0.022
	8 GHz to 18 GHz	
	0.000 to 1.000	0.020 to 0.036
	- Voltage reflection coefficient (real and imaginary components) over the following ranges:	
	300 kHz to 45 MHz	
	-1.000 to 1.000	0.0080 to 0.029
	45 MHz to 2 GHz	
	-1.000 to 1.000	0.0066 to 0.010
	2 GHz to 8 GHz	
	-1.000 to 1.000	0.011 to 0.022
	8 GHz to 18 GHz	
	-1.000 to 1.000	0.020 to 0.036
	- Voltage Standing Wave Ratio (VSWR)	
	VSWR = $(1+\|\Gamma\|)/(1-\|\Gamma\|)$	$2U_{\|\Gamma\|}/(1-\|\Gamma\|)^2$
	$\|\Gamma\|$ = voltage reflection coefficient magnitude	where $U_{\|\Gamma\|}$ is the CMC of $\|\Gamma\|$

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- RF measurements		
- Coaxial system fitted with 50 Ω PC7 connector	Calibration for the following parameters in accordance with in-house procedure TPR030:	
	- Voltage reflection coefficient phase over the following ranges:	
	45 MHz to 2 GHz	
	-180° to +180°	0.5° to 180°
	2 GHz to 8 GHz	
	-180° to +180°	0.7° to 180°
	8 GHz to 18 GHz	
	-180° to +180°	2.1° to 180°
	- Voltage reflection coefficient magnitude over the following ranges:	
	45 MHz to 2 GHz	
	0.000 to 1.000	0.004 to 0.008
	2 GHz to 8 GHz	
	0.000 to 1.000	0.004 to 0.005
	8 GHz to 18 GHz	
	0.000 to 1.000	0.008 to 0.009
	- Voltage reflection coefficient (real and imaginary components) over the following ranges:	
	45 MHz to 2 GHz	
	-1.000 to 1.000	0.004 to 0.008
	2 GHz to 8 GHz	
	-1.000 to 1.000	0.004 to 0.005
	8 GHz to 18 GHz	
	-1.000 to 1.000	0.008 to 0.009

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- RF measurements		
- Coaxial system fitted with 50 Ω 2.4 mm connector	Calibration for the following parameters in accordance with in-house procedure TPR071:	
	- Voltage reflection coefficient phase over the following ranges:	
	10 MHz to 700 MHz	
	-180° to +180°	2.6° to 180°
	700 MHz to 24 GHz	
	-180° to +180°	1.4° to 180°
	24 GHz to 40 GHz	
	-180° to +180°	4.0° to 180°
	- Voltage reflection coefficient magnitude over the following ranges:	
	10 MHz to 700 MHz	
	0.000 to 1.000	0.023 to 0.046
	700 MHz to 24 GHz	
	0.000 to 1.000	0.013 to 0.024
	24 GHz to 40 GHz	
	0.000 to 1.000	0.023 to 0.046
	- Voltage reflection coefficient (real and imaginary components) over the following ranges:	
	10 MHz to 700 MHz	
	-1.000 to 1.000	0.023 to 0.046
	700 MHz to 24 GHz	
	-1.000 to 1.000	0.013 to 0.024
	24 GHz to 40 GHz	
	-1.000 to 1.000	0.023 to 0.046
	- Voltage Standing Wave Ratio (VSWR)	
	VSWR = $(1+\lvert\Gamma\rvert)/(1-\lvert\Gamma\rvert)$	$2U_{\lvert\Gamma\rvert}/(1-\lvert\Gamma\rvert)^2$
	$\lvert\Gamma\rvert$ = voltage reflection coefficient magnitude	where $U_{\lvert\Gamma\rvert}$ is the CMC of $\lvert\Gamma\rvert$

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- RF measurements		
- Coaxial system fitted with 50 Ω 2.4 mm connector	Calibration for transmission coefficient phase in accordance with in-house procedure TPR072 over the following ranges:	
	10 MHz to 700 MHz	
	0 dB to 40 dB	
	-180° to +180°	1.5°
	50 dB	
	-180° to +180°	1.8°
	60 dB	
	-180° to +180°	3.6°
	70 dB	
	-180° to +180°	11°
	80 dB	
	-180° to +180°	33°
	700 MHz to 24 GHz	
	0 dB to 30 dB	
	-180° to +180°	0.8° to 2.8°
	40 dB to 60 dB	
	-180° to +180°	1.1° to 3.4°
	70 dB	
	-180° to +180°	2.1° to 4.0°
	80 dB	
	-180° to +180°	5.9° to 6.9°
	24 GHz to 40 GHz	
	0 dB to 30 dB	
	-180° to +180°	3.1° to 4.5°
	40 dB to 50 dB	
	-180° to +180°	3.4° to 5.1°
	60 dB	
	-180° to +180°	3.7° to 5.5°
	70 dB	
	-180° to +180°	5.0° to 6.5°
	80 dB	
	-180° to +180°	11° to 12°

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED[@]** 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- RF measurements		
- Coaxial system fitted with 50 Ω 2.4 mm connector	Calibration for transmission coefficient magnitude in accordance with in-house procedure TPR072 over the following ranges:	
	10 MHz to 700 MHz	
	0 to 40 dB	0.20 dB
	50 dB	0.25 dB
	60 dB	0.52 dB
	70 dB	1.5 dB
	80 dB	3.9 dB
	700 MHz to 24 GHz	
	0 to 50 dB	0.11 dB
	60 dB	0.13 dB
	70 dB	0.30 dB
	80 dB	0.83 dB
	24 GHz to 40 GHz	
	0 to 50 dB	0.20 dB
	60 dB	0.25 dB
	70 dB	0.54 dB
	80 dB	1.5 dB

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- RF measurements		
- Network analyzer fitted with 50 Ω 2.4 mm connector	Calibration for the following parameters in accordance with in-house procedure TPR075:	
	- Voltage reflection coefficient magnitude over the following ranges:	
	10 MHz to 700 MHz	
	0.000 to 1.000	0.038
	700 MHz to 24 GHz	
	0.000 to 1.000	0.023
	24 GHz to 40 GHz	
	0.000 to 1.000	0.043
	- Voltage reflection coefficient phase over the following ranges:	
	10 MHz to 700 MHz	
	-180° to +180°	5.6°
	700 MHz to 24 GHz	
	-180° to +180°	4.5° to 5.8°
	24 GHz to 40 GHz	
	-180° to +180°	9.0° to 11°
	- Transmission coefficient magnitude over the following ranges:	
	10 MHz to 700 MHz	
	0 dB to 80 dB	0.24 dB
	700 MHz to 24 GHz	
	0 dB to 80 dB	0.12 dB
	24 GHz to 40 GHz	
	0 dB to 80 dB	0.22 dB
	- Transmission coefficient phase over the following ranges:	
	10 MHz to 700 MHz	
	-180° to +180°	1.4°
	700 MHz to 24 GHz	
	-180° to +180°	1.4° to 2.6°
	24 GHz to 40 GHz	
	-180° to +180°	3.3° to 4.7°

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- RF measurements		
- Oscilloscope	Calibration for the following parameters in accordance with in-house procedure TPR016:	
	- Peak to Peak voltage of 1 kHz square waveform over the following range: 40 μV to 40 V	0.0032v + 3 μV where v is nominal test voltage in V
	- Period of triangular waveform over the following range: 0.5 ns to 5 s	0.060 %
	- Bandwidth over the following range: 1 MHz to 2 GHz	4.3 % of applied voltage level and it will be expressed in term of frequency for the UUT
	Calibration for rise time in accordance with in-house procedure TPR024: over the following range: 0.5 ns to 900 μs	0.03 ns to 23 μs
	Calibration for the following parameters in accordance with in-house procedure TPC101:	
	- Peak to Peak voltage of 1 kHz square waveform over the following range: 40 μV to 200 V	0.0032v + 3 μV where v is nominal test voltage in V
	- Period of triangular waveform over the following range: 0.2 ns to 50 s	0.060 %
	- Bandwidth over the following range: 0.1 MHz to 6.4 GHz	4.3 % of applied voltage level and it will be expressed in term of frequency for the UUT
	- Rise time over the following range: 300 ps to 1 ms	8.0 ps to 20 μs

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- RF measurements		
- Oscilloscope	Calibration for the following parameters in accordance with in-house procedure TPC105:	
	- Bandwidth: 6 GHz to 20 GHz	0.25 %
	- Rise time: 20 ps to 300 ps	0.25 ps
- Oscilloscope calibrator	Calibration for square wave output amplitude in accordance with in-house procedure TPC102 over the following ranges:	
	50 Hz to 1 kHz 50 Ω 0.4 mV to 4 V	0.90 % to 0.002 %
	1 MΩ 0.4 mV to 200 V	0.90 % to 0.002 %
- Amplitude modulation generator and meter	Calibration for modulation index in accordance with in-house procedure TPR013 over the following range of parameters:	
	Carrier frequency: 150 kHz to 1.3 GHz Modulating frequency: 100 Hz to 200 kHz	
	Modulation index: 0.01 to 0.99	3.4 % to 4.3 %
- Frequency modulation generator and meter	Calibration for frequency deviation in accordance with in-house procedure TPR014 over the following range of parameters:	
	Carrier frequency: 150 kHz to 1.3 GHz Modulating frequency: 100 Hz to 400 kHz	
	Frequency deviation at: 100 Hz to 400 kHz	0.80 %

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- RF measurements		
- RF attenuator fitted with 50 Ω connector	Calibration for attenuation by using WBCO system in accordance with in-house procedure TPR012 over the following range:	
	30 MHz 0 dB to 50 dB	0.009 dB to 0.039 dB
	Above 30 MHz to 16 GHz 0 dB to 50 dB	0.050 dB
	Calibration for attenuation by using automatic network analyser in accordance with in-house procedure TPR031 over the following ranges:	
	300 kHz to 18 GHz 0 dB to 20 dB Above 20 dB to 40 dB Above 40 dB to 60 dB Above 60 dB to 80 dB	 0.036 dB to 0.14 dB 0.036 dB to 0.15 dB 0.075 dB to 0.49 dB 0.56 dB to 5.8 dB

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- RF measurements		
- RF voltage generator of 50 Ω load	Calibration for voltage in accordance with in-house procedure TPR011 over the following range:	
	10 kHz to 1 GHz 0.71 mV to 2.2 V	0.80 % to 2.3 %
	Calibration for voltage in accordance with in-house procedure TPR025 over the following ranges:	
	100 Hz to 3 GHz 7 dBμV to 127 dBμV	1.2 dB
	3 GHz to 18 GHz 7 dBμV to 127 dBμV	2.0 dB
- RF voltage generator of 75 Ω load	Calibration for voltage in accordance with in-house procedure TPR050 over the following range:	
	300 kHz to 1 GHz 65 dBμV to 134 dBμV	0.30 dB

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- RF measurements		
- RF voltmeter of 50 Ω load	Calibration for voltage in accordance with in-house procedure TPR011 over the following range:	
	10 kHz to 1 GHz 0.71 mV to 2.2 V	1.5 % to 3.6 %
	Calibration for voltage in accordance with in-house procedure TPR025 over the following ranges:	
	100 Hz to 3 GHz 7 dBμV to 127 dBμV	1.2 dB
	3 GHz to 13 GHz 7 dBμV to 127 dBμV	2.5 dB
	13 GHz to 18 GHz 7 dBμV to 127 dBμV	3.2 dB
- RF voltmeter of 75 Ω load	Calibration for voltage in accordance with in-house procedure TPR051 over the following range:	
	300 kHz to 1 GHz 10 dBμV to 120 dBμV	0.50 dB

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- RF measurements		
- Power splitter fitted with 50 Ω type N connector	Calibration for the following parameters in accordance with in-house procedure TPR041:	
	- Equivalent output VRC magnitude (linear) over the following ranges:	
	50 MHz to 2 GHz	
	0.000 to 1.000	0.020
	2 GHz to 8 GHz	
	0.000 to 1.000	0.030
	8 GHz to 18 GHz	
	0.000 to 1.000	0.050
	- Tracking (dB) over the following range:	
	50 MHz to 18 GHz	
	-80 dB to 80 dB	0.20 dB
	Calibration for the following parameters in accordance with in-house procedure TPR054 using Juroshek direct method:	
	- Equivalent output VRC (real part and imaginary part) over the following range:	
	50 MHz to 18 GHz	
	-1.000 to 1.000	0.010 + 0.0016 *f* where *f* is the frequency in GHz
	- Equivalent output VRC magnitude (linear): over the following range:	
	50 MHz to 18 GHz	
	0.000 to 1.000	0.010 + 0.0016 *f* where *f* is the frequency in GHz

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- RF measurements		
- Power splitter fitted with 50 Ω 2.4 mm connector	Calibration for the following parameters in accordance with in-house procedure TPR077:	
	- Equivalent output VRC magnitude (linear) over the following ranges:	
	10 MHz to 700 MHz	
	0.000 to 1.000	0.020
	700 MHz to 24 GHz	
	0.000 to 1.000	0.020
	24 GHz to 40 GHz	
	0.000 to 1.000	0.040
	- Tracking (dB) over the following range:	
	10 MHz to 700 MHz	
	-80 dB to 80 dB	0.30 dB
	700 MHz to 24 GHz	
	-80 dB to 80 dB	0.20 dB
	24 GHz to 40 GHz	
	-80 dB to 80 dB	0.30 dB

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED[@]** 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- RF measurements		
- Loop antenna		
	Calibration for antenna factor in accordance with CISPR 16-1-6: 2014 + A1: 2017 at the following frequency ranges:	
- Active loop antenna	1 kHz to 30 MHz -40 dB (S/m) to 10 dB (S/m)	1.2 dB
- Passive loop antenna	1 kHz to 1 MHz 10 dB (pT/μV) to 110 dB (pT/μV)	1.2 dB
	Calibration for antenna factor in accordance with in-house procedure TPR201 at the following frequency ranges:	
- Active loop antenna	1 kHz to 30 MHz -40 dB (S/m) to 10 dB (S/m)	1.9 dB
- Passive loop antenna	1 kHz to 1 MHz 10 dB (pT/μV) to 110 dB (pT/μV)	1.9 dB

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- RF measurements		
- Electrical fast transient/ burst (EFT/B) generator	Calibration for the following parameters in accordance with IEC 61000-4-4: 2004 Cl.6.1.2:	
	- Peak voltage V_p into 50 Ω load over the following range:	
	0.125 kV to 2.4 kV	3.7 %
	- Peak voltage V_p into 1 kΩ load over the following range:	
	0.24 kV to 4.6 kV	3.7 %
	- Repetition rate over the following range:	
	5 kHz and 100 kHz	0.60 %
	- Burst duration over the following ranges:	
	15 ms at 5 kHz	0.60 %
	0.75 ms at 100 kHz	0.60 %
	- Burst period at 300 ms	0.60 %
	- Rise time t_r at 5 ns	1.3 %
	- Duration of pulse (to 50% of peak voltage) at 50 ns	1.1 %

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- RF measurements		
- Electrical fast transient/ burst (EFT/B) generator	Calibration for the following parameters in accordance with IEC 61000-4-4: 2012 Cl.6.2.3:	
	- Peak voltage V_p into 50 Ω load over the following range: 0.125 kV to 2.4 kV	3.7 %
	- Peak voltage V_p into 1 kΩ load over the following range: 0.24 kV to 4.6 kV	3.7 %
	- Repetition rate over the following range: 5 kHz and 100 kHz	0.60 %
	- Burst duration at the following values:	
	15 ms at 5 kHz	0.60 %
	0.75 ms at 100 kHz	0.60 %
	- Burst period at 300 ms	0.60 %
	- Rise time t_r at 5 ns	1.3 %
	- Duration of pulse (to 50% of peak voltage) at 50 ns	1.1 %
- Electrostatic discharge (ESD) generator	Calibration for the following parameters in accordance with IEC 61000-4-2: 2008 Cl.6.2:	
	- First peak current of discharge over the following range: 7.5 A to 112.5 A	3.0 %
	- Rise time t_r over the following range: 0.6 to 1 ns	0.05 ns
	- Current at 30 ns over the following range: 4 A to 60 A	4.0 %
	- Current at 60 ns over the following range: 2 A to 120 A	6.0 %

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- RF measurements		
- EMI quasi-peak (QPK) measuring receiver	Calibration for the following parameters in accordance with CISPR 16-1-1: 2006 + A1: 2006 Cl.4.4.1, 4.4.2:	
	- Amplitude relationship: over the following range: 9 kHz to 1000 MHz -10 dB to 10 dB	0.45 dB
	- Variation with repetition frequency: over the following range: 9 kHz to 1000 MHz -20 dB to 45 dB	0.50 dB
	Calibration for the following parameters in accordance with CISPR 16-1-1: 2015 Cl.4.4.1, 4.4.2:	
	- Amplitude relationship: over the following range: 9 kHz to 1000 MHz -10 dB to 10 dB	0.45 dB
	- Variation with repetition frequency: over the following range: 9 kHz to 1000 MHz -20 dB to 45 dB	0.50 dB

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- RF measurements		
- EMI quasi-peak (QPK) measuring receiver	Calibration of the following parameters in accordance with CISPR 16-1-1: 2019-05 Cl.5.2.1, 5.2.2:	
	- Amplitude relationship: over the following range: 9 kHz to 1000 MHz -10 dB to 10 dB	0.45 dB
	- Variation with repetition frequency: over the following range: 9 kHz to 1000 MHz -20 dB to 45 dB	0.50 dB

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- RF measurements		
- 1.2/50 µs voltage surge generator	Calibration for the following parameters in accordance with IEC 61000-4-5: 2005:	
	- Front time at 1.2 µs	5.0 %
	- Time to half-value at 0 µs	5.0 %
	- Voltage surge peak over the following range:	
	0.5 kV to 7.4 kV	2.0 %
	Calibration for the following parameters in accordance with IEC 61000-4-5: 2014:	
	- Front time at 1.2 µs	5.0 %
	- Duration at 50 µs	2.0 %
	- Voltage surge peak over the following range:	
	0.5 kV to 4 kV	3.0 %
- 10/700 µs voltage surge generator	Calibration for the following parameters in accordance with IEC 61000-4-5: 2005:	
	- Front time at 10 µs	5.0 %
	- Time to half-value at 700 µs	5.0 %
	- Voltage surge peak over the following range:	
	0.5 kV to 7.4 kV	2.0 %
	Calibration for the following parameters in accordance with IEC 61000-4-5: 2014:	
	- Front time at 10 µs	5.0 %
	- Duration at 700 µs	2.0 %
	- Voltage surge peak over the following range:	
	0.5 kV to 4 kV	3.0 %

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- RF measurements		
- 8/20 µs current surge generator	Calibration for the following parameters in accordance with IEC 61000-4-5: 2005:	
	- Front time at 8 µs	5.0 %
	- Time to half-value at 20 µs	5.0 %
	- Current surge peak over the following range: 0.25 kA to 3.7 kA	2.8 %
	Calibration for the following parameters in accordance with IEC 61000-4-5: 2014:	
	- Front time at 8 µs	5.0 %
	- Duration at 20 µs	5.0 %
	- Current surge peak over the following range: 0.25 kA to 2.0 kA	2.8 %
- 5/320 µs current surge generator	Calibration for the following parameters in accordance with IEC 61000-4-5: 2005:	
	- Front time at 5 µs	5.0 %
	- Time to half-value at 320 µs	5.0 %
	- Current surge peak over the following range: 12.5 A to 185 A	2.8 %
	Calibration for the following parameters in accordance with IEC 61000-4-5: 2014:	
	- Front time at 5 µs	5.0 %
	- Duration at 20 µs	5.0 %
	- Current surge peak over the following range: 12.5 A to 100 A	2.8 %

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- RF measurements		
-Voltage dips and short interruptions generator	Calibration for the following parameters in accordance with IEC 61000-4-11 Edition 3.0 2020-01	
	- Ratio of residual voltage at the following values:	
	100 %	0.010
	80 %	0.025
	70 %	0.025
	40 %	0.025
	- Rise time over the following range:	
	0.1 µs to 10 µs	0.2 µs
	- Fall time over the following range:	
	0.1 µs to 10 µs	0.2 µs
	- Overshoot over the following range:	
	0 to 1	0.015
	- Undershoot over the following range:	
	0 to 1	0.015
	- Phase angle accuracy over the following ranges:	
	0 º to 15º	5.9 º
	Above 15 º to 165 º	1.4 º
	Above 165 º to 195 º	5.9 º
	Above 195 º to 345 º	1.4 º
	Above 345 º to 360 º	5.9 º

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- RF measurements		
- 50 Ω/50 μH + 5 Ω V- network type artificial mains network (AMN) / line impedance stabilisation network (LISN)	Calibration for the following parameters in accordance with CISPR 16-1-2: 2003 + A1: 2004 + A2: 2006: at the following frequencies or over the following frequency ranges:	
	- Magnitude of impedance:	
	9 kHz	1.7 Ω
	0.3 MHz to 7 MHz	1.7 Ω
	10 MHz to 20 MHz	1.8 Ω
	30MHz	1.9 Ω
	- Phase of impedance:	
	9 kHz	0.05°
	0.3 MHz to 3 MHz	1.0 °
	4 MHz to 5 MHz	1.1 °
	7 MHz	1.2 °
	10 MHz	1.5 °
	15 MHz	1.9 °
	20 MHz	2.5 °
	30 MHz	3.5 °
	- Voltage division factor (dB):	
	9 kHz to 100 kHz	0.10 dB
	Above 100 kHz to 300 kHz	0.40 dB
	Above 0.3 MHz to 30 MHz	0.30 dB
	- Isolation:	
	9 kHz to100 kHz	0.10 dB
	Above 100 kHz to 300 kHz	0.60 dB
	Above 0.3 MHz to 30 MHz	0.30 dB

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- RF measurements		
- 50 Ω/50 μH + 5 Ω V- network type artificial mains network (AMN) / artificial network (AN) / line impedance stabilisation network (LISN)	Calibration for the following parameters in accordance with CISPR 16-1-2: 2014 + A1: 2017: at the following frequencies or over the following frequency ranges:	
	- Magnitude of impedance:	
	9 kHz	1.7 Ω
	0.3 MHz to 7 MHz	1.7 Ω
	10 MHz to 20 MHz	1.8 Ω
	30MHz	1.9 Ω
	- Phase of impedance:	
	9 kHz	0.05°
	0.3 MHz to 3 MHz	1.0°
	4 MHz to 5 MHz	1.1°
	7 MHz	1.2°
	10 MHz	1.5°
	15 MHz	1.9°
	20 MHz	2.5°
	30 MHz	3.5°
	- Voltage division factor (dB):	
	9 kHz to 100 kHz	0.10 dB
	Above 100 kHz to 300 kHz	0.40 dB
	Above 0.3 MHz to 30 MHz	0.30 dB
	- Isolation:	
	9 kHz to 100 kHz	0.10 dB
	Above 100 kHz to 300 kHz	0.60 dB
	Above 0.3 MHz to 30 MHz	0.30 dB

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- RF measurements		
- Ultrasonic examination equipment	Calibration for the following parameters in accordance with BS EN ISO 22232-1: 2020:	
	- Cl. 9.3 - Transmitter pulse parameters	
	- Pulse voltage over the following range:	
	50 V to 450 V	3 %
	- Rise time over the following range:	
	2 ns to 50 ns	3 %
	- Duration over the following ranges:	
	4 ns to 50 ns	3 %
	Above 50 ns to 2 μs	1 %
	- Cl. 9.4 - Receiver	
	- Frequency response	
	- Centre frequency	2 %
	- 3 dB bandwidth	3 %
	- Noise level (Method B) over the following range:	
	10 nV/√Hz to 100 nV/√Hz	3 %
	- Gain linearity over the following range:	
	0 dB to 110 dB	0.3 dB
	- Vertical display linearity	1 %

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- RF measurements		
- Electric field probe	Calibration for the following parameter in accordance with in-house procedure TPR204 over the following ranges:	
	Electric field strength	
	0.1 MHz to 80 MHz	
	(1 to 35) V/m	1.2 dB
	above 80 MHz to 90 MHz	
	(1 to 35) V/m	1.7 dB
	Calibration for the following parameter in accordance with in-house procedure TPR205 over the following ranges:	
	Electric field strength	
	0.1 MHz	
	(1 to 35) V/m	1.4 dB
	above 0.1 MHz to 1 MHz	
	(1 to 35) V/m	1.5 dB
	above 1 MHz to 10 MHz	
	(1 to 35) V/m	1.7 dB
	above 10 MHz to 100 MHz	
	(1 to 35) V/m	2.1 dB
	above 100 MHz to 500 MHz	
	(1 to 35) V/m	2.0 dB
	above 500 MHz to 1 GHz	
	(1 to 35) V/m	1.5 dB
	above 1 GHz to 2 GHz	
	(1 to 35) V/m	1.9 dB
	above 2 GHz to 3 GHz	
	(1 to 35) V/m	3.5 dB
	above 3 GHz to 4 GHz	
	(1 to 35) V/m	2.2 dB
	above 4 GHz to 5 GHz	
	(1 to 35) V/m	3.5 dB
	above 5 GHz to 6 GHz	
	(1 to 35) V/m	2.6 dB

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- RF measurements		
- Magnetic field probe	Calibration for the following parameter in accordance with in-house procedure TPR206 over the following range:	
	Magnetic field strength 0.3 MHz to 30 MHz (0.01 to 0.1) A/m	1.3 dB

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements and magnetism		
- Magnetism		
- Gaussmeter, Teslameter	Calibration for DC magnetic flux density and applied magnetic field strength in axial and transverse directions in accordance with in-house procedure TPD301 over the following ranges:	
	0.3 mT to 0.5 mT	2.0 %
	Above 0.5 mT to 50 mT	1.0 %
	Calibration for DC magnetic flux density and applied magnetic field strength in transverse direction in accordance with in-house procedure TPD302 over the following range:	
	50 mT to 1.5 T	0.1 %
	Calibration for DC magnetic flux density and applied magnetic field strength in axial direction in accordance with in-house procedure TPD303 over the following range:	
	50 mT to 1.0 T	0.1 %
- Reference magnet	Calibration for magnetic flux density in axial and transverse directions in accordance with in-house procedure TPD307 over the following ranges:	
	0.3 mT to 0.5 mT	2.0 %
	Above 0.5 mT to 50 mT	1.0 %
	Above 50 mT to 1.5 T	0.1 %

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related quantities		
- Length		
- Stabilised laser of the *mise en pratique* (wavelength at 633 nm)	Calibration for optical frequency at 474 THz by using an acousto-optic modulator in accordance with in-house procedure TPM706	25 kHz
- Red He-Ne laser (wavelength at 633 nm)	Calibration for optical frequency at 474 THz in accordance with in-house procedure TPM702	2 MHz
- Comparator	Calibration for length in accordance: with in-house procedure TPM111 over the following range:	
	0.3 μm to 60 mm	0.13 μm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related quantities		
- Length		
- Gauge block	Calibration for length by comparison with a reference gauge block (grade 0, 1 or 2) in accordance with in-house procedure TPM101 over the following range:	
	0.5 mm to 100 mm	Q[60 nm, 1.3e-6*l*] where Q[a, b] = $[a^2 + b^2]^{1/2}$, *l* is the length
- Long gauge block and length bar	Calibration for length using comparator in accordance with in-house procedure TPM153 over the following range:	
	Above 100 mm to 600 mm	Q[400 nm, 4e-6*l*] where Q[a, b] = $[a^2 + b^2]^{1/2}$, *l* is the length
- Long gauge block, step gauge, fixture, work piece and component	Calibration for length using coordinate measuring machine by non-substitution method in accordance with ISO 15530-3: 2011 over the following ranges:	
	20 mm to 100 mm	0.5 µm
	Above 100 mm to 300 mm	0.9 µm
	Above 300 mm to 420 mm	1.1 µm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related quantities - Length		
- Calliper checker	Calibration for distance between a measuring face and the datum face (bottom) in accordance with in-house procedure TPM172 over the following ranges:	
	10 mm to 300 mm	Q[0.5 µm, 3.4e-6*l*]
	Above 300 mm to 600 mm	Q[1.2 µm, 3.1e-6*l*] where Q[a, b] = $[a^2 + b^2]^{1/2}$, *l* is the distance between a measuring face and the datum face (bottom)
	Calibration for distance between any measuring face and the datum face for internal measurement in accordance with in-house procedure TPM172 over the following ranges:	
	10 mm to 300 mm	1.6 µm
	Above 300 mm to 600 mm	3.4 µm
- Micrometer setting rod	Calibration for central length in accordance with in-house procedure TPM153 over the following ranges:	
	25 mm to 100 mm	Q[260 nm, 4e-6*l*]
	Above 100 mm to 500 mm	Q[400 nm, 4e-6*l*] where Q[a, b] = $[a^2 + b^2]^{1/2}$, *l* is the length

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related quantities		
- Length		
- Length gauge (flat ended) and micrometer extension rod	Calibration for length in accordance with in-house procedure TPM153 over the following range:	
	1 mm to 1000 mm	0.3 µm + 4e-6*l* where *l* is the length
- Length gauge (spherical ended)	Calibration for length in accordance with in-house procedure TPM153 over the following range:	
	1 mm to 600 mm	0.3 µm + 4e-6*l* where *l* is the length
- Internal micrometer	Calibration for length in accordance with in-house procedure TPM114 over the following range:	
	5 mm to 1 m	Q[2.4 µm, 9e-6*l*] where Q[a, b] = $[a^2 + b^2]^{1/2}$, *l* is the length
- Three-point micrometer	Calibration for diameter in accordance with in-house procedure TPE801 over the following range:	
	12 mm to 20 mm	3.2 µm

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related quantities		
- Length		
- Coordinate measuring machine (CMM)	Verification for the following parameter of CMM stylus contacting probing system in accordance with ISO 10360-5: 2010:	
	- single probe probing error	0.03 μm
	- multiple probes probing error	0.04 μm
	Verification for the following parameters of CMM stylus contacting probing system in accordance with ISO 10360-5: 2020:	
	- single probe probing error	0.03 μm
	- scanning mode size error	0.8 μm
	- scanning mode form error	1.6 μm
	Verification for test length of CMM stylus contacting probing system in accordance with ISO 10360-2: 2009	
	- by comparison with a length artefact 1 mm to 1540 mm	Q[0.25 μm, 0.7e-6l] where Q[a, b] = $[a^2 + b^2]^{1/2}$, l is the length
	- by comparison with a laser interferometer 1 mm to 4000 mm	Q[0.25 μm, 1.3e-6l] where Q[a, b] = $[a^2 + b^2]^{1/2}$, l is the length
- Coordinate table	On-site calibration for travel distance in accordance with in-house procedure TPM133 over the following range:	
	1 mm to 600 mm	0.3 μm + 4e-6l where l is the travel distance

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related quantities - Length		
- Measuring microscope and profile projector	On-site calibration for travel distance in accordance with in-house procedure TPM145 over the following range:	
	0.1 mm to 600 mm	0.3 µm + 4e-6*l* where *l* is the travel distance
	On-site calibration for magnification factor in accordance with in-house procedure TPM145 over the following range:	
	1 to 100	0.07 % of magnification factor
- Gauge, jig, fixture, work piece and component (with dimensions of 1 mm x 1 mm x 1 mm to 250 mm x 250 mm x 200 mm)	Calibration for dimensions by optical method in accordance with in-house procedure TPM132	0.3 µm + 4e-6*l* where *l* is the length
	Calibration for dimensions by mechanical comparison or by direct measurement in accordance with in-house procedure TPM153	0.3 µm + 4e-6*l* where *l* is the length

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related quantities		
- Length		
- Plain plug gauge, cylindrical setting standard, gear measuring cylinder, pin gauge and roller	Calibration for diameter in accordance with in-house procedure TPM139 over the following range:	
	0.05 mm to 150 mm	Q[0.4 µm, 9e-6*d*] where Q[a, b] = $[a^2 + b^2]^{1/2}$, *d* is the diameter
- Plain ring gauge	Calibration for diameter in accordance with in-house procedure TPM151 over the following range:	
	1 mm to 250 mm	Q[0.5 µm, 10e-6*d*] where Q[a, b] = $[a^2 + b^2]^{1/2}$, *d* is the diameter
- Precision ball	Calibration for diameter in accordance with in-house procedure TPM159 over the following range:	
	1 mm to 25 mm	0.5 µm
- Radius gauge	Calibration for radius in accordance with in-house procedure TPE802 over the following range:	
	0.25 mm to 25 mm	7 µm
- Ring size measuring stick	Calibration for diameter in accordance with in-house procedure TPM188 over the following range:	
	10 mm to 25 mm	0.03 mm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related quantities		
- Length		
- Plastic film thickness gauge	Calibration for thickness in accordance with in-house procedure TPM152 over the following range:	
	0.01 mm to 0.05 mm	2 μm
- Ultrasonic thickness measuring system	Calibration for thickness in accordance with in-house procedure TPM170 over the following ranges:	
	0.3 mm to 25 mm	0.03 mm
	Above 25 mm to 100 mm	0.2 mm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related quantities		
- Length		
- Extensometer calibrator	Calibration for travel in accordance with standard method ISO 9513: 2012 over the following range:	
	0.01 mm to 0.333 mm Above 0.333 mm to 50 mm	0.23 μm + 0.5e-3*l* 0.49 μm + 4e-6*l* where *l* is the length
	Calibration for travel in accordance with in-house procedure TPE103 over the following range:	
	0.01 mm to 0.333 mm Above 0.333 mm to 50 mm	0.23 μm + 0.5e-3*l* 0.49 μm + 4e-6*l* where *l* is the length
- Laser distance meter (LDM/EDM)	Calibration for travel distance in accordance with in-house procedure TPE102 over the following range:	
	0.3 m to 20 m	1.0 mm
- Precision line scale	Calibration for interval length in accordance with in-house procedure TPE301 over the following range:	
	0.01 mm to 600 mm	Q[0.15 μm, 0.5e-6*l*] where Q[a, b] = $[a^2 + b^2]^{1/2}$, *l* is the length

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related quantities		
- Length		
- Laser interferometry length measuring system	Calibration for travel distance in accordance with in-house procedure TPE105 over the following range:	
	0.01 mm to 20 m	2.7×10^{-7} of result
- Universal length measuring system	On-site calibration for travel distance in accordance with in-house procedure TPE106 over the following range:	
	0.01 mm to 20 m	Q[0.41 μm, 3.3e-6*l*] where $Q[a, b] = [a^2 + b^2]^{1/2}$, *l* is the travel distance

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related quantities		
- Angle		
- Precision index table	Calibration for angle in accordance with in-house procedure TPE502 over the following range:	
	0° to 360°	0.16 second of arc
- Rotary table	Calibration for angle in accordance with in-house procedure TPM126 over the following range:	
	0° to 360°	1 second of arc
- Rotary axis, spindle of machine table and head	On-site calibration for angle in accordance with in-house procedure TPE503 over the following range:	
	0° to 360°	1 second of arc

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related quantities		
- Angle		
- Angle gauge	Calibration for angle in accordance with in-house procedure TPM134 over the following range:	
	0° to 90°	0.6 second of arc
- Bevel protractor	Calibration for angle in accordance with in-house procedure TPM121 over the following range:	
	5 minute of arc to 360°	2 minute of arc
- Protractor	Calibration for angle in accordance with in-house procedure TPM198 over the following range:	
	0° to 180°	0.1°
- Electronic level	Calibration for angle in accordance with in-house procedure TPM131 over the following range:	
	0 second of arc to 200 second of arc	0.3 second of arc
	Above 200 second of arc to 1200 second of arc	0.8 second of arc
- Laser level	Calibration for the following parameters in accordance with in-house procedure TPE501:	
	- Horizontal line (0°)	41 second of arc
	- Vertical line (90°)	38 second of arc

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related quantities		
- Angle		
- Polygons up to 36 sides	Calibration for angle in accordance with in-house procedure TPM128 by direct comparison with a precision index table over the following range:	
	0° to 360°	0.6 second of arc
	Calibration for angle in accordance with in-house procedure TPE504 by circle closure method over the following range:	
	0° to 360°	0.16 second of arc
- Sine bar	Calibration for distance between the roller axes in accordance with in-house procedure TPM183 over the following range:	
	10 mm to 254 mm	2.1 μm
- Square		
- cylindrical type square	Calibration for squareness in accordance with in-house procedure TPM157 over the following range:	
	5 mm to 300 mm	0.6 μm
- Squareness tester	Calibration for squareness for travel distance in accordance with in-house procedure TPM118 over the following range:	
	5 mm to 300 mm	1 μm + 8e-6*l* where *l* is the travel distance

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related quantities		
- Form		
- Optical flat and optical parallel (10 mm to 200 mm diameter)	Calibration for flatness in accordance with in-house procedure TPM186 over the following range of diameter:	
	10 mm to 150 mm	0.04 μm
	Above 150 mm to 200 mm	0.11 μm
	Calibration for parallelism in accordance with in-house procedure TPM113 over the following range of diameter:	
	10 mm to 200 mm	0.15 μm
	Calibration for thickness in accordance with in-house procedure TPM186 over the following range of diameter:	
	10 mm to 200 mm	0.25 μm
- Surface plate (made of granite and cast iron, with dimensions of 160 mm x 100 mm to 2500 mm x 1600 mm)	Calibration for the following parameters in accordance with in-house procedure TPM130:	
	- Local flatness	0.6 μm
	- Overall flatness	0.4 μm + 0.5e-6l where l is the diagonal length
	On-site calibration for the following parameters in accordance with in-house procedure TPM130:	
	- Local flatness	0.6 μm
	- Overall flatness	0.4 μm + 0.5e-6l where l is the diagonal length
- Toolmaker's flat (60 mm to 150 mm diameter)	Calibration for the following parameters in accordance with in-house procedure TPM112	
	- Flatness	0.04 μm
	- Parallelism	0.3 μm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related quantities		
- Form		
- Parallel (with dimensions of 5 mm x 10 mm x 100 mm to 50 mm x 100 mm x 400 mm)	Calibration for parallelism in accordance with in-house procedure TPM124	2 μm
- Roundness sample (with internal diameter from 3 mm to 200 mm and external diameter from 1 mm to 200 mm)	Calibration for roundness in accordance with in-house procedure TPM160 over the following range:	
	0 to 2000 μm	0.09 μm
- Hemisphere (with external diameter from 1 mm to 200 mm)	Calibration for roundness in accordance with in-house procedure TPM171 over the following range:	
	0 to 2000 μm	0.1 μm
- Sphere (with external diameter from 1 mm to 200 mm)	Calibration for roundness in accordance with in-house procedure TPM171 over the following range:	
	0 to 2000 μm	0.2 μm
	Calibration for diameter in accordance with in-house procedure TPM159 over the following range:	
	1 mm to 200 mm	0.5 μm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related quantities		
- Form		
- Straight edge made of cast iron, steel and granite (with length from 0.03 mm to 2 m)	Calibration for straightness in accordance with in-house procedure TPM117	0.5 µm + 0.1e-6*l* where *l* is the length
- Toolmaker's straight edge (with length from 50 mm to 500 mm)	Calibration for straightness in accordance with in-house procedure TPM116	0.4 µm
- Surface texture sample	Calibration for the following parameters in accordance with in-house procedure TPE702:	
	- Depth, *d* from 0.26 µm to 12.00 µm	Q[0.026 µm, 0.01*d*]
	- Roughness *Pt* from 0.26 µm to 12.00 µm	Q[0.026 µm, 0.01*Pt*]
	- Roughness *Ra* from 0.10 µm to 6.30 µm	Q[0.011 µm, 0.03*Ra*]
	- Roughness *Rq* from 0.10 µm to 6.30 µm	Q[0.011 µm, 0.03*Rq*]
	- Roughness *Rt* from 1.10 µm to 23.00 µm	Q[0.03 µm, 0.27*Rt*]
	- Roughness *Rz* from 0.40 µm to 20.10 µm	Q[0.03 µm, 0.27*Rz*]
	- Roughness *RSm* from 80.0 µm to 140.0 µm	Q[0.036 µm, 0.12*RSm*] where $Q[a, b] = [a^2 + b^2]^{1/2}$,
- Ultrasonic calibration block No. 2	Calibration for the following parameters in accordance with standard method ISO7963: 2006	
	- Length	0.95 µm
	- Angle	0.0076°
	- Roughness	Ra: 0.046 µm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related quantities		
- Rotational speed		
- Rotational speed standard		
- Variable speed drive	Calibration for rotational speed in accordance with in-house procedure TPM805 over the following ranges:	
	2 r/min to 8000 r/min	0.1 r/min
	Above 8000 r/min to 40000 r/min	0.3 r/min to 0.4 r/min
- Rotational speed measuring device		
- Frequency meter	Calibration for rotational speed in accordance with in-house procedure TPM802 over the following range:	
	1 r/min to 120000 r/min	0.01 r/min to 0.4 r/min
- Stroboscope	Calibration for rotational speed in accordance with in-house procedure TPM804 over the following ranges:	
	40 r/min to 4000 r/min	0.2 r/min
	Above 4000 r/min to 35000 r/min	1 r/min

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related quantities		
- Tachometer	Calibration for rotational speed by comparison with a standard rotational speed setup in accordance with in-house procedure TPM801 over the following ranges:	
	6 r/min to 18,000 r/min	1.0 r/min
	Calibration for rotational speed by using function generator and laser diode in accordance with in-house procedure TPM803 over the following ranges:	
	6 r/min to 100,000 r/min	1.0 r/min
- Rotational equipment	On-site calibration for rotational speed in-accordance with in-house procedure TPM806 over the following ranges:	
	- using frequency meter 1 r/min to 120000 r/min	0.01 r/min to 0.4 r/min
	- using stroboscope 40 r/min to 4000 r/min Above 4000 r/min to 35000 r/min	0.2 r/min 1 r/min
	- using tachometer 6 r/min to 10000 r/min Above 10000 r/min to 100000 r/min	1 r/min 4 r/min

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities		
- Mass		
- Weight (standard value)	Calibration for mass in accordance with in-house procedure TPM017 over the following ranges:	
	1 mg to 5 mg	0.7 µg to 0.8 µg
	10 mg to 100 mg	0.7 µg to 0.8 µg
	0.2 g to 1 g	0.8 µg to 1.7 µg
	2 g to 10 g	2.2 µg to 8 µg
	20 g to 100 g	9 µg to 14 µg
	200 g to 500 g	17 µg to 32 µg
	1 kg	57 µg
	Calibration for mass in accordance with in-house procedure TPM018 over the following ranges:	
	2 kg to 10 kg	0.6 mg to 2.1 mg
	Calibration for mass in accordance with in-house procedure TPM020 over the following ranges:	
	20 kg to 50 kg	20 mg to 53 mg

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities		
- Mass		
- Weight (non-standard value)	Calibration for mass in accordance with in-house procedure TPM017 over the following ranges:	
	1 mg to 2 g	4 µg
	Above 2 g to 20 g	10 µg
	Above 20 g to 200 g	52 µg
	Above 200 g to 1 kg	1.5 mg
	Calibration for mass in accordance with in-house procedure TPM018 over the following range:	
	Above 1 kg to 10 kg	30 mg
	Calibration for mass in accordance with in-house procedure TPM020 over the following ranges:	
	Above 10 kg to 20 kg	30 mg
	Above 20 kg to 50 kg	53 mg
- Magnetic susceptibility of standard weight	Calibration for magnetic susceptibility by using the BIPM-type susceptometer in accordance with in-house procedure TPM021 over the following range:	
	0 to 1	12 %

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities		
- Mass		
- Electronic balance	Calibration for mass using OIML Class E2 weights from 1 mg to 50 kg in accordance with in-house procedure TPM007 over the following range:	
	1 mg to 5 g	6 µg
	Above 5 g up to 50 g	6 µg to 50 µg
	Above 50 g up to 500 g	50 µg to 0.5 mg
	Above 500 g up to 1.2 kg	0.5 mg to 1.2 mg
	Above 1.2 kg up to 100 kg	1.2 mg to 2 g
	On-site calibration for mass using OIML Class E2 weights from 1 mg to 20 kg in accordance with in-house procedure TPM007 over the following range:	
	1 mg to 5 g	6 µg
	Above 5 g up to 50 g	6 µg to 50 µg
	Above 50 g up to 500 g	50 µg to 0.5 mg
	Above 500 g up to 1.2 kg	0.5 mg to 1.2 mg
	Above 1.2 kg up to 20 kg	1.2 mg to 0.4 g

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities		
- Density		
- Density of solid (stainless steel)	Calibration for density in the range of 7700 kg/m^3 to 8400 kg/m^3 in accordance with in-house procedure TPM503 for the following ranges of mass:	
	20 g	5 kg/m^3
	Above 20 g up to 50 g	2 kg/m^3
	Above 50 g up to 100 g	1 kg/m^3
	Above 100 g up to 1000 g	0.5 kg/m^3

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities		
- Flow speed		
- Anemometer		
- All types	Calibration for air velocity by comparison with pitot tube in accordance with in-house procedure TPM412 over the following ranges:	
	0.2 m/s to 0.5 m/s	9 %
	Above 0.5 m/s to 35 m/s	3 %
- Thermal type	Calibration for air velocity by comparison with laser Doppler anemometer (LDA) in accordance with in-house procedure TPM407 over the following ranges:	
	0.2 m/s to 1 m/s	5 %
	Above 1 m/s to 35 m/s	2 %
- Vane type	Calibration for air velocity by comparison with laser Doppler anemometer (LDA) in accordance with in-house procedure TPM409 over the following ranges:	
	0.2 m/s to 1 m/s	5 %
	Above 1 m/s to 35 m/s	2 %
- Pitot-static type	Calibration for air velocity by comparison with laser Doppler anemometer (LDA) in accordance with in-house procedure TPM411 over the following ranges:	
	3 m/s to 35 m/s	2 %
- Fume hood	On-site calibration for air velocity using anemometers in accordance with in-house procedure TPM410 over the following ranges:	
	0.2 m/s to 1 m/s	6 %
	Above 1 m/s to 35 m/s	3 %

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities		
- Volume gas flow rate		
- Gas flow meter	Calibration for volume flow rate using air as working medium in accordance with in-house procedure TPM414 over the following ranges:	
	0.1 L/min to 10 L/min	1 %
	Above 10 L/min to 30 L/min	0.5 %
	Calibration for volume flow rate using air as working medium in accordance with in-house procedure TPM415 over the following ranges:	
	30 L/min to 100 L/min	0.5 %

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities		
- Volume		
- Single channel piston-operated pipette	Calibration for the contained or delivered volume in accordance with standard method ISO 8655-6: 2002 over the following ranges:	
	1 µL to 5 µL	0.05 µL
	Above 5 µl to 10 µL	0.1 µL
	Above 10 µL to 50 µL	0.5 µL
	Above 50 µL to 100 µL	1 µL
	Above 100 µL to 500 µL	4 µL
	Above 500 µL to 1 mL	6 µL
	Above 1 mL to 5 mL	25 µL
	Calibration for the contained or delivered volume in accordance with in-house procedure TPM405 over the following ranges:	
	1 µL to 5 µL	0.05 µL
	Above 5 µl to 10 µL	0.1 µL
	Above 10 µL to 50 µL	0.5 µL
	Above 50 µL to 100 µL	1 µL
	Above 100 µL to 500 µL	4 µL
	Above 500 µL to 1 mL	6 µL
	Above 1 mL to 5 mL	25 µL

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities		
- Volume		
- Multiple channel piston-operated pipette	Calibration for the contained or delivered volume in accordance with standard method ISO 8655-6: 2002 over the following ranges:	
	10 µL to 50 µL	0.7 µL
	Above 50 µL to 100 µL	2 µL
	Above 100 µL to 300 µL	3 µL
	Above 300 µL to 500 µL	5 µL
	Above 500 µL to 1000 µL	8 µL
	Calibration for the contained or delivered volume in accordance with in-house procedure TPM405 over the following ranges:	
	10 µL to 50 µL	0.7 µL
	Above 50 µL to 100 µL	2 µL
	Above 100 µL to 300 µL	3 µL
	Above 300 µL to 500 µL	5 µL
	Above 500 µL to 1000 µL	8 µL

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities		
- Volume		
- Volumetric glassware and containers	Calibration for volume in accordance with in-house procedure TPM401 over the following ranges:	
	0.1 mL to 5 mL	5 µL
	Above 5 mL to 200 mL	5 µL
	Above 200 mL to 1000 mL	50 µL to 130 µL
	Above 1 L to 5 L	0.13 mL to 0.5 mL
	Above 5 L to 20 L	1.5 mL
	Above 20 L to 50 L	5 mL
- Proving tank	Calibration for volume in accordance with in-house procedure TPM404 over the following ranges:	
	20 L to 50 L	5 mL
- Syringe	Calibration for volume in accordance with in-house procedure TPM413 over the following ranges:	
	1 µL to 10 µL	0.05 µL
	Above 10 µL to 100 µL	0.4 µL
	Above 100 µL to 1000 µL	4 µL

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED[@]** 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities		
- Pressure		
- Electronic barometer	Calibration for absolute pressure in accordance with in-house procedure TPM207 over the following range:	
	800 hPa to 1100 hPa	0.11 hPa
- Differential pressure meter, manometer and differential pressure gauge (gas medium)	Calibration for differential pressure in accordance with in-house procedure TPM214 over the following ranges:	
	4 Pa to 400 Pa	$(0.2 + 2 \times 10^{-4}P)$ Pa
	Above 400 Pa to 6000 Pa	$(0.3 + 5 \times 10^{-4}P)$ Pa where P is the pressure in Pa
	On-site calibration for differential pressure in accordance with in-house procedure TPM215 over the following range:	
	5 Pa to 100 Pa	6 Pa

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities		
- Pressure		
- Gas pressure balance, pressure gauge, transducer and transmitter	Calibration for the following parameters in accordance with in-house procedure TPM205:	
	- Gauge pressure over the following range: 5 kPa to 7000 kPa	0.0035 %
	- Absolute pressure over the following range: 5 kPa to 7000 kPa	0.0035 %
	Calibration for effective area of piston-cylinder assembly in accordance with in-house procedure TPM208 over the following range:	
	3 mm^2 to 3500 mm^2	0.0035 %
	Calibration for distortion coefficient in accordance with in-house procedure TPM208 over the following range:	
	0.5 x 10^{-9}/kPa to 1 x 10^{-7}/kPa	20 %

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities		
- Pressure		
- Hydraulic pressure balance	Calibration for the following parameters in accordance with in-house procedure TPM201	
	- Hydraulic pressure over the following range: 2 MPa to 100 MPa	0.004 %
	- Area of piston-cylinder assembly over the following range: 3 mm^2 to 3500 mm^2	0.004 %
	- Distortion coefficient over the following range: 0.5 x 10^{-9}/kPa to 1 x 10^{-7}/kPa	20 %
- Pressure gauge, transducer and transmitter	Calibration for hydraulic pressure in accordance with in-house procedure TPM202 over the following range:	
	2 MPa to 100 MPa	0.004 %
- Sphygmomanometer	Calibration for gauge pressure in accordance with in-house procedure TPM210 over the following range :	
	50 hPa to 400 hPa	0.5 hPa

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED[@]** 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities		
- Force		
- Push-pull type force gauge (spring tester)	Calibration for force by using deadweight in accordance with in-house procedure TPM605 over the following range:	
	0.5 N to 500 N	0.1 %
- Torque		
- Torque meter and transducer	Calibration for torque in accordance with in-house procedure TPM603 over the following range:	
	0.1 N·m to 1000 N·m	0.1 %
- Torque wrench and screwdriver	Calibration for torque in accordance with in-house procedure TPM601 over the following range:	
	0.1 N·m to 1000 N·m	1 %

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities		
- Hardness		
- Hardness testing machine	Indirect calibration for Rockwell hardness HRB and HRC scales in accordance with in-house procedure TPM303 over the following ranges:	
	20 HRB to 100 HRB	1.0 HRB
	20 HRC to 70 HRC	0.5 HRC
	Indirect calibration for Rockwell superficial hardness N and T scales in accordance with in-house procedure TPM304 over the following ranges:	
	42 HR30N to 86 HR30N	0.5 HR30N
	29 HR30T to 82 HR30T	1.0 HR30T
	Indirect calibration for Vickers hardness scales in accordance with in-house procedure TPM306 over the following ranges:	
	20 HV 10 to 2000 HV 10	2 %
	60 HV 30 to 2000 HV 30	2 %

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities		
- Hardness		
- Hardness testing machine (cont'd)	On-site indirect calibration for Rockwell hardness HRB and HRC scales in accordance with in-house procedure TPM303 over the following ranges:	
	20 HRB to 100 HRB	1.0 HRB
	20 HRC to 70 HRC	0.5 HRC
	On-site indirect calibration for Rockwell superficial hardness N and T scales in accordance with in-house procedure TPM304 over the following ranges:	
	42 HR30N to 86 HR30N	0.5 HR30N
	29 HR30T to 82 HR30T	1.0 HR30T
	On-site indirect calibration for Vickers hardness scales in accordance with in-house procedure TPM306 over the following ranges:	
	20 HV 10 to 2000 HV 10	2 %
	60 HV 30 to 2000 HV 30	2 %

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities		
- Hardness		
- Hardness block	Calibration for hardness in accordance with in-house procedure TPM301 over the following ranges:	
	- Rockwell B scale 20 HRB to 100 HRB	1.5 HRB
	- Rockwell C scale 20 HRC to 70 HRC	1.0 HRC
	Calibration for hardness in accordance with in-house procedure TPM302 over the following ranges:	
	- Rockwell superficial 42 HR30N to 86 HR30N 29 HR30T to 82 HR30T	1.0 HR30N 1.5 HR30T
	Calibration for hardness in accordance with in-house procedure TPM305 over the following ranges:	
	- Vickers scale 20 HV 10 to 2000 HV 10	2.5 %
	60 HV 30 to 2000 HV 30	2.5 %

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities		
- Hardness		
- Metallic materials	Calibration for hardness in accordance with in-house procedure TPM301 over the following ranges:	
	- Rockwell B scale 20 HRB to 100 HRB	1.5 HRB
	- Rockwell C scale 20 HRC to 70 HRC	1.0 HRC
	Calibration for hardness in accordance with in-house procedure TPM302 over the following ranges:	
	- Rockwell superficial 42 HR30N to 86 HR30N 29 HR30T to 82 HR30T	1.0 HR30N 1.5 HR30T
	Calibration for hardness in accordance with in-house procedure TPM305 over the following ranges:	
	- Vickers scale 20 HV 10 to 2000 HV 10	2.5 %
	60 HV 30 to 2000 HV 30	2.5 %

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Photometry and radiometry		
- Photometry		
- Tungsten standard lamp (AC, constant current)	Calibration for luminous flux in accordance with in-house procedure TPP601 over the following range:	
	20 lm to 10000 lm	2.6 %
- Tungsten standard lamp (DC, constant current)	Calibration for luminous flux in accordance with in-house procedure TPP601 over the following range:	
	20 lm to 10000 lm	1.0 %
- Tungsten standard lamp (DC, constant current)	Calibration for luminous intensity at colour temperature of 2856 K in accordance with in-house procedure TPP201 over the following range:	
	35 cd to 3500 cd	1.5 %
- White LED standard lamp (AC, constant voltage)	Calibration for luminous flux in accordance with in-house procedure TPP601 over the following range:	
	20 lm to 10000 lm	2.2 %

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Photometry and radiometry		
- Photometry		
- Illuminance meter / lux meter	Calibration for illuminance at colour temperature of 2856 K in accordance with standard method BS667:2005 Annex B Calibration B.2.2 over the following range:	
	1 lx to 3000 lx	1.5 %
- Luminance meter	Calibration for luminance at colour temperature of 2856 K in accordance with in-house procedure TPP401 over the following range:	
	10 cd/m^2 to 4000 cd/m^2	1.5 %
	Calibration for luminance at colour temperature of 2856 K in accordance with in-house procedure TPP402 over the following range:	
	10 cd/m^2 to 23000 cd/m^2	1.4 %

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Photometry and radiometry		
- Properties of detectors		
- Unfiltered broadband detector and photodetector	Calibration for spectral power responsivity in accordance with in-house procedure TPP501 at wavelength over the following ranges:	
	Power level below 20 μW:	
	200 nm to 204 nm	3.6 %
	Above 204 nm to 240 nm	2.6 %
	Above 240 nm to 380 nm	1.1 %
	Power level below 1 μW:	
	380 nm to 410 nm	0.70 %
	Above 410 nm to 920 nm	0.40 %
	Above 920 nm to 950 nm	0.70 %
	Above 950 nm to 1200 nm	1.5 %
	Above 1200 nm to 1800 nm	2.0 %
- Wavelength meter and spectrometer	Calibration for optical wavelength in accordance with in-house procedure TPP701 over the following range:	
	250 nm to 600 nm	1.5 nm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Photometry and radiometry		
- Spectral emission properties of sources		
- Irradiance light source	Calibration for spectral irradiance below 250 $mWm^{-2}nm^{-1}$ in accordance with in-house procedure TPP505 at wavelength at the following value or over the following ranges:	
	300 nm	3.3 %
	310 nm to 330 nm	3.0 %
	340 nm to 430 nm	3.0 %
	440 nm to 690 nm	2.1 %
	700 nm to 850 nm	2.1 %
- Tungsten standard lamp	Calibration for spectral irradiance below 300 $mWm^{-2}nm^{-1}$ in accordance with in-house procedure TPP502 at wavelength over the following ranges:	
	250 nm to 290 nm	3.0 %
	Above 290 nm to 410 nm	2.5 %
	Above 410 nm to 950 nm	1.5 %
	Above 950 nm to 1800 nm	2.0 %
- Tungsten standard lamp	Calibration for spectral radiance below 150 $mWm^{-2}\ sr^{-1}nm^{-1}$ in accordance with in-house procedure TPP503 at wavelength over the following ranges:	
	300 nm to 400 nm	3.4 %
	Above 400 nm to 999 nm	2.4 %
	Above 999 nm to 1800 nm	2.8 %

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Photometry and radiometry		
- Spectral emission properties of sources		
- Tungsten standard lamp (DC, constant current)	Calibration for spectral radiant flux in the range of 10 μW/nm to 200 mW/nm using spectrometer with measurement bandwidth from 2 nm to 5 nm in accordance with in-house procedure TPP602 at wavelength at the following value or over the following ranges:	
	365 nm	3.7 %
	370 nm to 380 nm	3.6 %
	385 nm to 390 nm	3.1 %
	395 nm to 405 nm	3.0 %
	410 nm to 450 nm	2.6 %
	455 nm to 730 nm	2.2 %
	735 nm to 790 nm	2.5 %
	795 nm to 835 nm	3.0 %
	840 nm to 850 nm	3.3 %
- Tungsten standard lamp (AC, constant current)	Calibration for spectral radiant flux in the range of 10 μW/nm to 200 mW/nm using spectrometer with measurement bandwidth from 2 nm to 5 nm in accordance with in-house procedure TPP602 at wavelength at the following value or over the following ranges:	
	365 nm	5.1 %
	370 nm to 380 nm	5.0 %
	385 nm to 405 nm	4.6 %
	410 nm to 450 nm	4.3 %
	455 nm to 730 nm	4.1 %
	735 nm to 790 nm	3.1 %
	795 nm to 835 nm	3.5 %
	840 nm to 850 nm	3.7 %

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Photometry and radiometry		
- Spectral emission properties of sources		
- White LED standard lamp (AC, constant voltage)	Calibration for spectral radiant flux in the range of 10 μW/nm to 200 mW/nm using spectrometer with measurement bandwidth from 2 nm to 5 nm in accordance with in-house procedure TPP602 at wavelength at the following value or over the following ranges:	
	365 nm	3.9 %
	370 nm to 380 nm	3.8 %
	385 nm to 405 nm	3.3 %
	410 nm to 440 nm	2.7 %
	445 nm to 460 nm	3.4 %
	465 nm to 730 nm	2.3 %
	735 nm to 790 nm	2.6 %
	795 nm to 835 nm	3.5 %
	840 nm to 850 nm	3.7 %
- Wavelength source	Calibration for optical wavelength in accordance with in-house procedure TPP701 over the following range:	
	250 nm to 600 nm	1.5 nm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Photometry and radiometry		
- Spectrally-integrated measurements for sources and detectors		
- Colorimeter for tungsten light source	Calibration for correlated colour temperature in accordance with in-house procedure TPP301 over the following ranges:	
	2750 K to 2856 K	20 K
	Above 2856 K to 3200 K	21 K
- Tungsten standard lamp	Calibration for correlated colour temperature in accordance with in-house procedure TPP603 over the following ranges:	
	2700 K to 2856 K	26 K
	Above 2856 K to 3100 K	30 K

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Photometry and radiometry		
- Spectral properties of materials		
- Optical filter and spectrally neutral material	Calibration for regular spectral transmittance in accordance with in-house procedure TPP504 at wavelength of 400 nm to 1000 nm over the following ranges:	
	1.00 to 0.10 below 0.10 to 0.05 below 0.05 to 0.01	0.50 % 0.55 % 1.8 %
- Spectrally-selective transmitting material	Calibration for wavelength in accordance with in-house procedure TPP506 over the following ranges:	
	260 nm to 536 nm above 536 nm to 650 nm	0.15 nm 0.20 nm

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Photometry and radiometry		
- Fibre optics		
- Optical time domain reflectometers (OTDRs) for single mode fibre <45 km)	Calibration for the following parameters in accordance with standard method IEC 61746-1: 2009:	
	Source with wavelength 1310 nm	
	- distance scale deviation	0.050 m/km
	- zero location offset	1.3 m
	- location deviation	1.8 m
	- loss deviation	0.060 dB
	- loss scale deviation	0.090 dB/dB
	- reflectance deviation at the following values:	
	-10 dB	1.7 dB
	-30 dB	1.7 dB
	-50 dB	1.7 dB
	Source with wavelength 1550 nm	
	- distance scale deviation	0.050 m/km
	- zero location offset	1.3 m
	- location deviation	2.0 m
	- loss deviation	0.040 dB
	- loss scale deviation	0.060 dB/dB
	- reflectance deviation at the following values:	
	-10 dB	1.7 dB
	-30 dB	1.7 dB
	-50 dB	1.7 dB

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Photometry and radiometry		
- Fibre optics		
- Optical time domain reflectometers (OTDRs) for single mode fibre <45 km)	Calibration for the following parameters in accordance with standard method BS EN 61746-1: 2011:	
	Source with wavelength 1310 nm	
	- distance scale deviation	0.050 m/km
	- zero location offset	1.3 m
	- location deviation	1.8 m
	- loss deviation	0.060 dB
	- loss scale deviation	0.090 dB/dB
	- reflectance deviation at the following values:	
	-10 dB	1.7 dB
	-30 dB	1.7 dB
	-50 dB	1.7 dB
	Source with wavelength 1550 nm	
	- distance scale deviation	0.050 m/km
	- zero location offset	1.3 m
	- location deviation	2.0 m
	- loss deviation	0.040 dB
	- loss scale deviation	0.060 dB/dB
	- reflectance deviation at the following values:	
	-10 dB	1.7 dB
	-30 dB	1.7 dB
	-50 dB	1.7 dB

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Photometry and radiometry		
- Fibre optics		
- Optical fibre power meter	Calibration for the following parameters in accordance with standard method IEC 61315: 2005:	
	Source with wavelength 1310 nm	
	- calibration factor at 1 mW	0.90 %
	- linearity at attenuation over the following range:	
	-50 dBm to below -45 dBm	0.90 %
	- linearity at attenuation over the following range:	
	-45 dBm to 0 dBm	0.70 %
	Source with wavelength 1550 nm	
	- calibration factor at 1 mW	0.90 %
	- linearity at attenuation over the following range:	
	-50 dBm to below -45 dBm	0.90 %
	- linearity at attenuation over the following range:	
	-45 dBm to 0 dBm	0.70 %
- Optical fibre laser source	Calibration for power output stability at 1 mW in accordance with standard method ISO 11554 at the following wavelengths:	
	1310 nm	0.011 dB
	1550 nm	0.015 dB
	Calibration for the following parameters in accordance with in-house procedure TPR101	
	Source with wavelength 1310 nm	
	- wavelength accuracy	2.0 pm
	- absolute power output level	10 %
	Source with wavelength 1550 nm	
	- wavelength accuracy	3.0 pm
	- absolute power output level	10 %

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Photometry and radiometry		
- Fibre optics		
- Optical fibre attenuator	Calibration for the following parameters in accordance with in-house procedure TPR102:	
	Source with wavelength 1310 nm	
	- absolute attenuation over the following range:	
	0 dB to 25 dB	7.1 %
	- step attenuation over the following ranges:	
	0 dB to 10 dB	0.24 %
	Above 10 dB to 25 dB	1.0 %
	Source with wavelength 1550 nm	
	- absolute attenuation over the following range:	
	0 dB to 25 dB	7.1 %
	- step attenuation over the following ranges:	
	0 dB to 10 dB	0.24 %
	Above 10 dB to 25 dB	1.0 %
- Optical fibre wavelength meter	Calibration for wavelength accuracy in accordance with in-house procedure TPR103 at the following wavelengths:	
	1310 nm	1.0 pm
	1550 nm	1.2 pm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Temperature and humidity measurements		
- Temperature measurements		
- Items used for defining ITS-90		
- Primary fixed-point cell	Calibration for temperature in accordance with in-house procedure TPT014 at the following values:	
	Triple-point of argon (-189.3442 ℃)	0.3 mK
	Triple-point of mercury (-38.8344 ℃)	0.6 mK
	Triple-point of water (0.01 ℃)	0.2 mK
	Melting-point of gallium (29.7646 ℃)	0.5 mK
	Freezing-point of indium (156.5985 ℃)	2.0 mK
	Freezing-point of tin (231.928 ℃)	2.0 mK
	Freezing-point of zinc (419.527 ℃)	2.0 mK
	Freezing-point of aluminium (660.323 ℃)	6.0 mK
	Freezing-point of silver (961.78 ℃)	10 mK
- Complete apparatus realising fixed point	Calibration for temperature in accordance with in-house procedure TPT014 at the following values:	
	Triple-point of argon with bath (-189.3442 ℃)	0.3 mK
	Triple-point of mercury with bath (-38.8344 ℃)	0.6 mK
	Triple-point of water with bath (0.01 ℃)	0.2 mK
	Melting-point of gallium with furnace (29.7646 ℃)	0.5 mK
	Freezing-point of indium with furnace (156.5985 ℃)	2.0 mK
	Freezing-point of tin with furnace (231.928 ℃)	2.0 mK
	Freezing-point of zinc with furnace (419.527 ℃)	2.0 mK
	Freezing-point of aluminium with furnace (660.323 ℃)	6.0 mK
	Freezing-point of silver with furnace (961.78 ℃)	10 mK

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Temperature and humidity measurements		
- Temperature measurements		
- Items used for defining ITS-90		
- Standard platinum resistance thermometer (SPRT)	Calibration for temperature in accordance with in-house procedure TPT040 at the following values:	
	Triple-point of argon: (-189.3442 ℃)	0.3 mK
	Triple-point of mercury: (-38.8344 ℃)	0.6 mK
	Triple-point of water: (0.01 ℃)	0.2 mK
	Melting-point of gallium: (29.7646 ℃)	0.5 mK
	Freezing-point of indium: (156.5985 ℃)	2.0 mK
	Freezing-point of tin: (231.928 ℃)	2.0 mK
	Freezing-point of zinc: (419.527 ℃)	2.0 mK
	Freezing-point of aluminium: (660.323 ℃)	6.0 mK
	Freezing-point of silver: (961.78 ℃)	10 mK
- Platinum resistance thermometer	Calibration for temperature in accordance with in-house procedure TPT002 over the following ranges:	
	-80 ℃ to 230 ℃	6 mK
	230 ℃ to 550 ℃	10 mK

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Temperature and humidity measurements		
- Temperature measurements		
- Items used for defining ITS-90		
- Liquid in glass thermometer	Calibration for temperature in accordance with in-house procedure TPT009 at the following point or over the following ranges:	
	-80 ℃ to below -50 ℃	500 mK
	-50 ℃ to -30 ℃	200 mK
	Above -30 ℃ to below 0 ℃	30 mK
	Ice-point (0 ℃)	7.0 mK
	Above 0 ℃ to 100 ℃	20 mK
	Above 100 ℃ to 250 ℃	30 mK
	Above 250 ℃ to 300 ℃	50 mK
	Above 300 ℃ to 450 ℃	200 mK
	Above 450 ℃ to 550 ℃	300 mK
- Thermistor	Calibration for temperature in accordance with in-house procedure TPT037 over the following range:	
	-50 ℃ to 90 ℃	6 mK

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Temperature and humidity measurements		
- Temperature measurements		
- Items used for disseminating ITS-90		
- Thermocouple	Calibration for temperature in accordance with in-house procedure TPT008 over the following ranges:	
	-80 ℃ to -30 ℃	0.25 K
	Above -30 ℃ to 550 ℃	0.15 K
	Calibration for temperature in accordance with in-house procedure TPT012 over the following ranges:	
	500 ℃ to 1100 ℃	1.0 K
	Above 1100 ℃ to 1200 ℃	2.0 K
	Calibration for temperature in accordance with in-house procedure TPT017 over the following range:	
	550 ℃ to 950 ℃	0.30 K

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Temperature and humidity measurements		
- Temperature measurements		
- Radiation thermometry		
- Radiation thermometer / infrared thermometer (working wavelength from 8 μm to 13 μm)	Calibration for radiance temperature in accordance with in-house procedure TPT025 over the following range:	
	-40 ℃ to 0 ℃	0.45 K
	Calibration for radiance temperature in accordance with in-house procedure TPT022 over the following range:	
	0 ℃ to 50 ℃	(0.33 + 0.003t) K where t is measured radiance temperature in ℃
	Calibration for radiance temperature in accordance with in-house procedure TPT020 over the following range:	
	50 ℃ to 200 ℃	(0.33 + 0.003t) K where t is measured radiance temperature in ℃
	Calibration for radiance temperature in accordance with in-house procedure TPT023 over the following range:	
	200 ℃ to 1000 ℃	(1.5 + 0.002t) K where t is measured radiance temperature in ℃
- Black body radiation source (working wavelength from 8 μm to 13 μm)	Calibration for radiance temperature in accordance with in-house procedure TPT024 over the following ranges:	
	-40 ℃ to 0 ℃ Above 0 ℃ to 200 ℃	(0.28 + 0.003|t|) K (0.31 + 0.0025t) K where t is measured radiance temperature in ℃

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Temperature and humidity measurements		
- Temperature measurements		
- Radiation thermometry		
- Infrared ear thermometer	Calibration for temperature by using a black body radiator which is designed to EN 12470-5 in accordance with in-house procedure TPT018 over the following range:	
	34 ℃ to 43 ℃	0.2 K
- Infrared ear thermometer calibrator	Calibration for temperature in accordance with in-house procedure TPT019 over the following range:	
	34 ℃ to 43 ℃	0.15 K

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Temperature and humidity measurements		
- Temperature measurements		
- Digital thermometer or temperature indicator	Calibration for temperature in accordance with in-house procedure TPT028 at the following value:	
	-196 ℃	20 mK
	Calibration for temperature in accordance with in-house procedure TPT010 over the following ranges:	
	-80 ℃ to 230 ℃	6.0 mK
	Above 230 ℃ to 550 ℃	10 mK
	Calibration for temperature in accordance with in-house procedure TPT013 over the following ranges:	
	500 ℃ to 1100 ℃	1.0 K
	Calibration for temperature in accordance with in-house procedure TPT021 over the following range:	
	500 ℃ to 1200 ℃	2.0 K

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Temperature and humidity measurements		
- Temperature measurements		
- Digital thermometer or temperature Indicator	Calibration for temperature in accordance with in-house procedure TPT030 over the following range:	
	-30 °C to 75 °C	0.10 K
	On-site calibration for temperature in accordance with in-house procedure TPT030 over the following range:	
	-30 °C to 75 °C	0.10 K
	Calibration for temperature in accordance with in-house procedure TPT027 over the following range:	
	50 °C to 650 °C	0.45 K
	On-site calibration for temperature in accordance with in-house procedure TPT027 over the following range:	
	50 °C to 650 °C	0.45 K
- Thermometer with analogue display	Calibration for temperature in accordance with in-house procedure TPT010 over the following ranges:	
	-80 ℃ to 230 ℃	0.5 K
	Above 230 ℃ to 550 ℃	1 K

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Temperature and humidity measurements		
- Temperature measurements		
- Thermocouple simulator	Calibration for temperature by converting measured thermal EMF to equivalent temperature in accordance with in-house procedure TPT029	0.15 K
- Resistance Temperature Detector (RTD) simulator	Calibration for temperature by converting measured resistance to equivalent temperature in accordance with in-house procedure TPT034	0.10 K

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Temperature and humidity measurements		
- Temperature measurements		
- Constant temperature bath	Calibration for the following parameters in accordance with in-house procedure TPT038:	
	- Temperature stability over the following temperature ranges:	
	-80 ℃ to -25 ℃	1.2 mK
	Above -25 ℃ to 25 ℃	1.2 mK
	Above 25 ℃ to 70 ℃	1.5 mK
	Above 70 ℃ to 230 ℃	2.5 mK
	- Temperature gradient over the following temperature ranges:	
	-80 ℃ to -25 ℃	2.5 mK
	Above -25 ℃ to 25 ℃	1 mK
	Above 25 ℃ to 70 ℃	2 mK
	Above 70 ℃ to 230 ℃	2 mK
	On-site calibration for the following parameters in accordance with in-house procedure TPT038:	
	- Temperature stability over the following temperature ranges:	
	-80 ℃ to -25 ℃	1.2 mK
	Above -25 ℃ to 25 ℃	1.2 mK
	Above 25 ℃ to 70 ℃	1.5 mK
	Above 70 ℃ to 230 ℃	2.5 mK
	- Temperature gradient over the following temperature ranges:	
	-80 ℃ to -25 ℃	2.5 mK
	Above -25 ℃ to 25 ℃	1 mK
	Above 25 ℃ to 70 ℃	2 mK
	Above 70 ℃ to 230 ℃	2 mK

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Temperature and humidity measurements		
- Temperature measurements		
- Temperature chamber of volume not greater than 2000 litre	On-site calibration for the following parameters in accordance with IEC 60068-3-5: 2018	
	- Temperature fluctuation over the following temperature range: -80 °C to 250 °C	0.01 K
	- Temperature gradient over the following temperature range: -80 °C to 250 °C	0.08 K
	- Temperature variation in space over the following temperature range: -80 °C to 250 °C	0.08 K
	- Temperature rate of change over the following temperature range: -80 °C to 250 °C	0.01 K/min
	- Achieved temperature over the following range: -80 °C to 250 °C	0.06 K
	On-site calibration for overall mean temperature in accordance with in-house procedure TPT039 over the following ranges:	
	-80 °C to below -40 °C	0.50 K
	-40 °C to 5 °C	0.40 K
	Above 5°C to 40 °C	0.10 K
	Above 40 °C to 70 °C	0.15 K
	Above 70 °C to 180 °C	0.60 K
	Above 180 °C to 250 °C	0.90 K

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Temperature and humidity measurements		
- Temperature measurements		
- Temperature chamber of volume not greater than 2000 litre	Calibration for the following parameters in accordance with IEC 60068-3-5: 2018	
	- Temperature fluctuation over the following temperature range:	
	-80 °C to 250 °C	0.01 K
	- Temperature gradient over the following temperature range:	
	-80 °C to 250 °C	0.08 K
	- Temperature variation in space over the following temperature range:	
	-80 °C to 250 °C	0.08 K
	- Temperature rate of change over the following temperature range:	
	-80 °C to 250 °C	0.01 K/min
	- Achieved temperature over the following range:	
	-80 °C to 250 °C	0.06 K
	Calibration for overall mean temperature in accordance with in-house procedure TPT039 over the following ranges:	
	-80 °C to below -40 °C	0.50 K
	-40 °C to 5 °C	0.40 K
	Above 5°C to 40 °C	0.10 K
	Above 40 °C to 70 °C	0.15 K
	Above 70 °C to 180 °C	0.60 K
	Above 180 °C to 250 °C	0.90 K

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Temperature and humidity measurements		
- Temperature measurements		
- Psychrometer, relative humidity sensor and other relative humidity measurement instrument (excluding thermohygrograph)	Calibration for air temperature in accordance with in-house procedure TPH102 over the following ranges:	
	for relative humidity from 8 %rh to 95 %rh	
	5 ℃ to 40 ℃	(0.068 + 0.0008 x (t-5)) ℃
	Above 40 ℃ to 70 ℃	(0.096 + 0.002 x (t-40)) ℃
		where t is measured air temperature in ℃
- Thermohygrograph / Temperature and humidity chart recorder	Calibration for air temperature in accordance with in-house procedure TPH103 over the following ranges:	
	for relative humidity from 8 %rh to 95 %rh	
	5 ℃ to 40 ℃	(0.068 + 0.0008 x (t-5)) ℃
	Above 40 ℃ to 70 ℃	(0.096 + 0.002 x (t-40)) ℃
		where t is measured air temperature in ℃

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Temperature and humidity measurements		
- Humidity measurements		
- Dew-point generator	Calibration for dew-point temperature in accordance with in-house procedure TPH101 over the following ranges:	
	-60 ℃ to below -40 ℃	0.20 ℃
	-40 ℃ to below 30 ℃	0.15 ℃
	30 ℃ to 65 ℃	0.13 ℃
- Dew point hygrometer	Calibration for dew-point temperature in accordance with in-house procedure TPH101 over the following ranges:	
	-60 ℃ to below -40 ℃	0.20 ℃
	-40 ℃ to below 30 ℃	0.15 ℃
	30 ℃ to 65 ℃	0.13 ℃
- Relative humidity generator, chamber and calibrator	On-site calibration for relative humidity in accordance with in-house procedure TPH104 over the following range:	
	for air temperature from 5 ℃ to 85 ℃ 5 %rh to 95 %rh	(0.18 + 0.0075 x H) %rh where H is the relative humidity test point
	Calibration for relative humidity in accordance with in-house procedure TPH104 over the following range:	
	for air temperature from 5 ℃ to 85 ℃ 5 %rh to 95 %rh	(0.18 + 0.0075 x H) %rh where H is the relative humidity test point

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Temperature and humidity measurements		
- Humidity measurements		
- Psychrometer, relative humidity sensor and other relative humidity measurement instrument (excluding thermohygrograph)	Calibration for relative humidity in accordance with in-house procedure TPH102 over the following ranges:	
	for air temperature from 5 ℃ to 40 ℃	
	8 %rh to 20 %rh	0.50 %rh
	Above 20 %rh to 40 %rh	0.60 %rh
	Above 40 %rh to 60 %rh	0.70 %rh
	Above 60 %rh to 80 %rh	1.1 %rh
	Above 80 %rh to 95 %rh	1.3 %rh
	for air temperature from above 40 ℃ to 70 ℃	
	8 %rh to 20 %rh	0.50 %rh
	Above 20 %rh to 40 %rh	0.90 %rh
	Above 40 %rh to 60 %rh	1.3 %rh
	Above 60 %rh to 80 %rh	1.8 %rh
	Above 80 %rh to 95 %rh	1.8 %rh
- Thermohygrograph / Temperature and humidity chart recorder	Calibration for relative humidity in accordance with in-house procedure TPH103 over the following ranges:	
	for air temperature from 5 ℃ to 40 ℃	
	8 %rh to 20 %rh	0.50 %rh
	Above 20 %rh to 40 %rh	0.60 %rh
	Above 40 %rh to 60 %rh	0.70 %rh
	Above 60 %rh to 80 %rh	1.1 %rh
	Above 80 %rh to 95 %rh	1.3 %rh
	for air temperature from above 40 ℃ to 70 ℃	
	8 %rh to 20 %rh	0.50 %rh
	Above 20 %rh to 40 %rh	0.90 %rh
	Above 40 %rh to 60 %rh	1.3 %rh
	Above 60 %rh to 80 %rh	1.8 %rh
	Above 80 %rh to 95 %rh	1.8 %rh

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Temperature and humidity measurements		
- Humidity measurements		
- Relative humidity chamber	On-site calibration for the following parameters in accordance with in-house procedure TPH105	
	- Mean humidity (excluding humidity fluctuation and gradient) over the following ranges:	
	for air temperature from 5 ℃ to 40 ℃:	
	8 %rh to 20 %rh	0.60 %rh
	Above 20 %rh to 40 %rh	0.70 %rh
	Above 40 %rh to 60 %rh	0.80 %rh
	Above 60 %rh to 80 %rh	1.2 %rh
	Above 80 %rh to 95 %rh	1.4 %rh
	for air temperature from above 40 ℃ to 70 ℃:	
	8 %rh to 20 %rh	0.60 %rh
	Above 20 %rh to 40 %rh	1.0 %rh
	Above 40 %rh to 60 %rh	1.4 %rh
	Above 60 %rh to 95 %rh	1.9 %rh
	- Humidity fluctuation over the following ranges:	
	for air temperature from 5 ℃ to 40 ℃:	
	8 %rh to 95 %rh	0.30 %rh
	for air temperature from above 40 ℃ to 70 ℃:	
	8 %rh to 95 %rh	0.30 %rh

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Temperature and humidity measurements		
- Humidity measurements		
- Relative humidity chamber	On-site calibration for the following parameters in accordance with in-house procedure TPH105	
	- Humidity gradient over the following ranges:	
	for air temperature from 5 ℃ to 40 ℃:	
	8 %rh to 20 %rh	0.80 %rh
	Above 20 %rh to 40 %rh	0.90 %rh
	Above 40 %rh to 60 %rh	1.0 %rh
	Above 60 %rh to 80 %rh	1.6 %rh
	Above 80 %rh to 95 %rh	1.9 %rh
	for air temperature from above 40 ℃ to 70 ℃:	
	8 %rh to 20 %rh	0.80 %rh
	Above 20 %rh to 40 %rh	1.3 %rh
	Above 40 %rh to 60 %rh	1.9 %rh
	Above 60 %rh to 95 %rh	2.6 %rh
	- Humidity variation in space over the following ranges:	
	for air temperature from 5 ℃ to 40 ℃:	
	8 %rh to 20 %rh	0.80 %rh
	Above 20 %rh to 40 %rh	0.90 %rh
	Above 40 %rh to 60 %rh	1.0 %rh
	Above 60 %rh to 80 %rh	1.6 %rh
	Above 80 %rh to 95 %rh	1.9 %rh
	for air temperature from above 40 ℃ to 70 ℃:	
	8 %rh to 20 %rh	0.80 %rh
	Above 20 %rh to 40 %rh	1.3 %rh
	Above 40 %rh to 60 %rh	1.9 %rh
	Above 60 %rh to 95 %rh	2.6 %rh

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Temperature and humidity measurements		
- Humidity measurements		
- Relative humidity chamber	On-site calibration for the following parameters in accordance with in-house procedure TPH105	
	- Mean humidity (including humidity fluctuation and gradient) over the following ranges:	
	for air temperature from 5 ℃ to 40 ℃:	
	8 %rh to 20 %rh	1.1 %rh
	Above 20 %rh to 40 %rh	1.2 %rh
	Above 40 %rh to 60 %rh	1.4 %rh
	Above 60 %rh to 80 %rh	2.1 %rh
	Above 80 %rh to 95 %rh	2.4 %rh
	for air temperature from above 40 ℃ to 70 ℃:	
	8 %rh to 20 %rh	1.1 %rh
	Above 20 %rh to 40 %rh	1.7 %rh
	Above 40 %rh to 60 %rh	2.4 %rh
	Above 60 %rh to 95 %rh	3.3 %rh

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Temperature and humidity measurements		
- Humidity measurements		
- Relative humidity chamber	Calibration for the following parameters in accordance with in-house procedure TPH105	
	- Mean humidity (excluding humidity fluctuation and gradient) over the following ranges:	
	for air temperature from 5 ℃ to 40 ℃:	
	8 %rh to 20 %rh	0.60 %rh
	Above 20 %rh to 40 %rh	0.70 %rh
	Above 40 %rh to 60 %rh	0.80 %rh
	Above 60 %rh to 80 %rh	1.2 %rh
	Above 80 %rh to 95 %rh	1.4 %rh
	for air temperature from above 40 ℃ to 70 ℃:	
	8 %rh to 20 %rh	0.60 %rh
	Above 20 %rh to 40 %rh	1.0 %rh
	Above 40 %rh to 60 %rh	1.4 %rh
	Above 60 %rh to 95 %rh	1.9 %rh
	- Humidity fluctuation over the following ranges:	
	for air temperature from 5 ℃ to 40 ℃:	
	8 %rh to 95 %rh	0.30 %rh
	for air temperature from above 40 ℃ to 70 ℃:	
	8 %rh to 95 %rh	0.30 %rh

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Temperature and humidity measurements		
- Humidity measurements		
- Relative humidity chamber	Calibration for the following parameters in accordance with in-house procedure TPH105	
	- Humidity gradient over the following ranges:	
	for air temperature from 5 ℃ to 40 ℃:	
	8 %rh to 20 %rh	0.80 %rh
	Above 20 %rh to 40 %rh	0.90 %rh
	Above 40 %rh to 60 %rh	1.0 %rh
	Above 60 %rh to 80 %rh	1.6 %rh
	Above 80 %rh to 95 %rh	1.9 %rh
	for air temperature from above 40 ℃ to 70 ℃:	
	8 %rh to 20 %rh	0.80 %rh
	Above 20 %rh to 40 %rh	1.3 %rh
	Above 40 %rh to 60 %rh	1.9 %rh
	Above 60 %rh to 95 %rh	2.6 %rh
	- Humidity variation in space over the following ranges:	
	for air temperature from 5 ℃ to 40 ℃:	
	8 %rh to 20 %rh	0.80 %rh
	Above 20 %rh to 40 %rh	0.90 %rh
	Above 40 %rh to 60 %rh	1.0 %rh
	Above 60 %rh to 80 %rh	1.6 %rh
	Above 80 %rh to 95 %rh	1.9 %rh
	for air temperature from above 40 ℃ to 70 ℃:	
	8 %rh to 20 %rh	0.80 %rh
	Above 20 %rh to 40 %rh	1.3 %rh
	Above 40 %rh to 60 %rh	1.9 %rh
	Above 60 %rh to 95 %rh	2.6 %rh

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Temperature and humidity measurements		
- Humidity measurements		
- Relative humidity chamber	Calibration for the following parameters in accordance with in-house procedure TPH105	
	- Mean humidity (including humidity fluctuation and gradient) over the following ranges:	
	for air temperature from 5 ℃ to 40 ℃:	
	8 %rh to 20 %rh	1.1 %rh
	Above 20 %rh to 40 %rh	1.2 %rh
	Above 40 %rh to 60 %rh	1.4 %rh
	Above 60 %rh to 80 %rh	2.1 %rh
	Above 80 %rh to 95 %rh	2.4 %rh
	for air temperature from above 40 ℃ to 70 ℃:	
	8 %rh to 20 %rh	1.1 %rh
	Above 20 %rh to 40 %rh	1.7 %rh
	Above 40 %rh to 60 %rh	2.4 %rh
	Above 60 %rh to 95 %rh	3.3 %rh

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Temperature and humidity measurements		
- Humidity measurements		
- Relative humidity generator, chamber and calibrator	On-site calibration for the following parameters in accordance with IEC 60068-3-6: 2018 over the following ranges: for air temperature from 5 ℃ to 85 ℃ and relative humidity from 5 %rh to 95 %rh	
	- Achieved Humidity	(0.03 + 0.0085 x H) %rh
	- Humidity Fluctuation	0.06 %rh
	- Humidity Gradient	(0.06 + 0.011 x H) %rh
	- Humidity Variation in Space	(0.06 + 0.011 x H) %rh where H is the relative humidity test point
	Calibration for the following parameters in accordance with IEC 60068-3-6: 2018 over the following ranges: for air temperature from 5 ℃ to 85 ℃ and relative humidity from 5 %rh to 95 %rh	
	- Achieved Humidity	(0.03 + 0.0085 x H) %rh
	- Humidity Fluctuation	0.06 %rh
	- Humidity Gradient	(0.06 + 0.011 x H) %rh
	- Humidity Variation in Space	(0.06 + 0.011 x H) %rh where H is the relative humidity test point

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Temperature and humidity measurements		
- Humidity measurements		
- Relative humidity generator, chamber and calibrator	On-site calibration for the following parameter in accordance with in-house procedure TPH107 over the following ranges: for air temperature from 5 ℃ to 85 ℃ and relative humidity from 5 %rh to 95 %rh	
	- Overall Mean Relative Humidity	(0.18 + 0.0075 x H) %rh where H is the relative humidity test point
	Calibration for the following parameter in accordance with in-house procedure TPH107 over the following ranges: for air temperature from 5 ℃ to 85 ℃ and relative humidity from 5 %rh to 95 %rh	
	- Overall Mean Relative Humidity	(0.18 + 0.0075 x H) %rh where H is the relative humidity test point

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Provision of Proficiency Testing Schemes 提供能力驗證		
PROFICIENCY TESTING SCHEME AND ITEM 能力驗證計劃及項目	**MEASURAND OR CHARACTERISTIC MEASURED** 測試參數或特質	**PROFICIENCY TESTING SCHEME PROCEDURE** 能力驗證計劃程序
Calibration Services Acoustic Measurements		
- Sound calibrator	Calibration for the following parameters: - Sound pressure level over the following range: 94 dB and 114 dB - Frequency at the following value 1000 Hz - Total distortion and noise over the following range: 0 to 3.0 %	PTA001: PT Plan for sound calibrator
- Sound level meter	Calibration for relative frequency weighting C normalised to the response at 1 kHz over the following range: 125 Hz, 1 kHz, 4kHz and 8 kHz -3.0 dB to 0 dB	PTA002: PT Plan for sound level meter
- Audiometer	Calibration for the following parameters: - Sound pressure level over the following range: 125 Hz to 8 kHz 77 dB to 115 dB - Force level over the following range: 250 Hz to 8 kHz 71 dB to 107 dB (re 1μN) - Attenuator steps at the following value: 5 dB	PTA003: PT Plan for audiometer

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Provision of Proficiency Testing Schemes 提供能力驗證		
PROFICIENCY TESTING SCHEME AND ITEM 能力驗證計劃及項目	**MEASURAND OR CHARACTERISTIC MEASURED** 測試參數或特質	**PROFICIENCY TESTING SCHEME PROCEDURE** 能力驗證計劃程序
Calibration Services Electricity - Digital multimeter	Calibration for the following parameters: - DC voltage over the following range: 0.1 mV to 1000V - DC current over the following range: 10 μA to 100 A - DC resistance over the following range: 1 mΩ to 1 GΩ - AC voltage over the following range: 40 Hz to 10 kHz 10 mV to 1000 V 10 kHz to 100 kHz 10 mV to 300 V 100 kHz to 500 kHz 0.2 V to 3 V - AC current over the following range: 40 Hz to 10 kHz 100 μA to 1 A 45 Hz to 65 Hz 1 A to 200 A	PTL001: PT plan for digital multimeter

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Provision of Proficiency Testing Schemes 提供能力驗證		
PROFICIENCY TESTING SCHEME AND ITEM 能力驗證計劃及項目	**MEASURAND OR CHARACTERISTIC MEASURED** 測試參數或特質	**PROFICIENCY TESTING SCHEME PROCEDURE** 能力驗證計劃程序
Calibration Services Electricity		
- Multifunction calibrator	Calibration for the following parameters: - DC voltage over the following range: 0.1 mV to 1000V - DC current over the following range: 10 μA to 100 A - DC resistance over the following range: 1 mΩ to 1 GΩ - AC voltage over the following range: 40 Hz to 10 kHz 10 mV to 1000 V 10 kHz to 100 kHz 10 mV to 300 V 100 kHz to 500 kHz 0.2 V to 3 V - AC current over the following range: 40 Hz to 10 kHz 100 μA to 1 A 45 Hz to 65 Hz 1 A to 200 A	PTL002: PT plan for multifunction calibrator
- Power meter	Calibration for single or three phase active/reactive/apparent power over the following range of parameters: Voltage: 24 V to 300 V Current: 0.1 A to 10 A Power factor: 0 lead/lag to unity Frequency: 45 Hz to 65 Hz	PTL031: PT plan for power meter

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Provision of Proficiency Testing Schemes 提供能力驗證		
PROFICIENCY TESTING SCHEME AND ITEM 能力驗證計劃及項目	**MEASURAND OR CHARACTERISTIC MEASURED** 測試參數或特質	**PROFICIENCY TESTING SCHEME PROCEDURE** 能力驗證計劃程序
Calibration Services		
Electricity		
- Oscilloscope	Calibration for the following parameters: - Peak to peak voltage of 1 kHz square waveform over the following range: 40 μV to 40 V - Bandwidth over the following range: 1 MHz to 300 MHz - Period of triangular waveform over the following range: 0.5 ns to 5 s	PTR006: PT plan for oscilloscope
Time and frequency		
- Stopwatch	Calibration for relative correction of time interval	PTR005: PT plan for stopwatch

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Provision of Proficiency Testing Schemes 提供能力驗證

PROFICIENCY TESTING SCHEME AND ITEM 能力驗證計劃及項目	MEASURAND OR CHARACTERISTIC MEASURED 測試參數或特質	PROFICIENCY TESTING SCHEME PROCEDURE 能力驗證計劃程序
Calibration Services		
Length and related quantities		
- Calliper	Calibration for length over the following range: 0.5 mm to 1 m	PTM008: PT scheme for calliper
- Engineer's steel rule	Calibration for length over the following range: 0.5 mm to 1 m	PTM006: PT scheme for engineer's steel rule
- Square	Calibration for squareness for travel over the following range: 5 mm to 500 mm	PTM004: PT scheme for square
Mass and related quantities		
- Standard weight	Calibration for mass over the following range: 1 mg to 50 kg	PTM001: PT scheme for standard weights
- Electronic balance	Calibration for mass over the following range: 1 mg to 50 kg	PTM002: PT scheme for electronic balances
- Piston-operated pipette	Calibration for contained or delivered volume over the following range: 1 µl to 5 ml	PTM003: PT scheme for piston-operated pipettes
Photometry and radiometry		
- Illuminance meter	Calibration for illuminance at colour temperature of 2856 K over the following range: 1 lx to 3000 lx	PTP001: PT plan for illuminance meter

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
36/F., Immigration Tower, 7 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 7 號入境事務大樓 36 樓

Provision of Proficiency Testing Schemes 提供能力驗證		
PROFICIENCY TESTING SCHEME AND ITEM 能力驗證計劃及項目	**MEASURAND OR CHARACTERISTIC MEASURED** 測試參數或特質	**PROFICIENCY TESTING SCHEME PROCEDURE** 能力驗證計劃程序
Calibration Services		
Humidity measurements		
- Digital thermohygrometer	Calibration for humidity over the following range: for air temperature 5 ℃ to 70 ℃: 8 %rh to 95 %rh	PTH001: PT plan for relative humidity measurement instrument
Temperature measurements		
- Platinum resistance thermometer	Calibration for temperature at the following value or over the following range: Triple-point of water: (0.01 ℃) -80 ℃ to 550 ℃	PTT001: PT plan for platinum resistance thermometer
- Thermocouple	Calibration for temperature over the following range: -80 ℃ to 550 ℃	PTT002: PT plan for thermocouple
- Liquid-in-glass thermometer	Calibration for temperature over the following range: -80 ℃ to 550 ℃	PTT003: PT plan for liquid-in-glass thermometer
- Digital thermometer	Calibration for temperature over the following range: -80 ℃ to 550 ℃	PTT004: PT plan for digital thermometer

The Government of the Hong Kong Special Administrative Region – Standards and Calibration Laboratory
香港特別行政區政府 – 標準及校正實驗所
G04, Public Works Central Laboratory Building, 2B Cheung Yip Street, Kowloon Bay, Kowloon
九龍九龍灣祥業街 2 號 B 工務中央試驗所大樓地下 04 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities		
- Force		
- Force proving instruments, load cells, proving rings, load columns and other force measuring devices in tension and compression modes	Calibration for force using a deadweight or hydraulic force standard machine in accordance with standard methods BS EN ISO 376: 2011, EN ISO 376: 2011 or ISO 376: 2011 over the following ranges :-	
	50 N to 60 kN	0.01 %
	Above 60 kN to 600 kN	0.05 %
- Universal testing machines in tension and compression modes	On-site calibration for force using indicated or true force method in accordance with standard methods BS EN ISO 7500-1: 2018, EN ISO 7500-1: 2018 or ISO 7500-1: 2018, over the following ranges :-	
	50 N to 60 kN	(Class 00 load cell with a maximum uncertainty of 0.08 %)
	Above 60 kN to 600 kN	(Class 0.5 load cell with a maximum uncertainty of 0.16 %)
	Above 600 kN to 3000 kN	(Class 1 load cell with a maximum uncertainty of 0. 32 %)

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Gammon Construction Limited – Technology Centre
金門建築有限公司

ADDRESS : 21 Chun Wang Street, Tseung Kwan O Industrial Estate, New Territories, Hong Kong
地址 香港新界將軍澳工業村駿宏街二十一号

ENQUIRY : Mr CHUNG Hei-Wing, Quality Representative
查詢 鍾喜榮先生，品質控制代表

TELEPHONE : 2699 1980
電話

FAX : 2691 7547
傳真

E-MAIL : soil.lab@gammonconstruction.com
電郵

WEBSITE ADDRESS : http://www.gammonconstruction.com/
網址

CLIENTELE : Public
服務對象 公眾

Gammon Construction Limited – Technology Centre
金門建築有限公司

ADDRESS **地址**	:	21, Chun Wang Street, Tseung Kwan O Industrial Estate, New Territories, Hong Kong 香港新界將軍澳工業村駿宏街二十一號
ACCREDITED TEST CATEGORIES **認可測試類別**	:	Calibration Services 校正服務 Construction Materials 建築材料

Gammon Construction Limited – Technology Centre
金門建築有限公司
21, Chun Wang Street, Tseung Kwan O Industrial Estate, New Territories, Hong Kong
香港新界將軍澳工業村駿宏街二十一號

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Length measurements		
- Caliper	Calibration for length in accordance with Cl. B1, B2.1, B2.2 and B2.3 of BS 887: 1982 over the following range :	
	0 to 300 mm	34 μm
- Dial gauge	Calibration for length in accordance with Cl. B3 of BS 907: 1965 over the following ranges :	
	0 to 30 mm	5 μm
	above 30 to 50 mm	8 μm
- Linear displacement measuring device	Calibration for length in accordance with Cl. A.3.4 of GEOSPEC 3: 2001 over the following range :	
	0 to 30 mm	5 μm
	above 30 to 50 mm	8 μm
- Measuring tape	Calibration for length in accordance with in-house procedure C.O.P./44 over the following range :	
	0 to 200 m	1.8l mm, where l is length in every 5 m

[@] UNLESS OTHERWISE SPECIFIED, ACCREDITED ACTIVITIES ARE CONDUCTED AT THE LABORATORY.

* THE CALIBRATION UNCERTAINTY OF A DEVICE UNDER TEST IS USUALLY REPORTED AT 95% CONFIDENCE LEVEL AND DEPENDS ON BOTH THE CMC OF THE LABORATORY AND THE PERFORMANCE OF THE DEVICE DURING CALIBRATION.

Gammon Construction Limited – Technology Centre
金門建築有限公司
21, Chun Wang Street, Tseung Kwan O Industrial Estate, New Territories, Hong Kong
香港新界將軍澳工業村駿宏街二十一號

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related measurements		
- Balance	Calibration for mass in accordance with in-house procedure C.O.P./37 over the following range :	
	1 mg to 200 g	1 mg
	above 200 g to 300 g	4 mg
	above 300 g to 3 kg	20 mg
	above 3 kg to 18 kg	0.3 g
		(Calibration is conducted using OIML Class F1 weights from 1 mg to 10 kg)
	On-site calibration for mass in accordance with in-house procedure C.O.P./37 over the following range :	
	1 mg to 200 g	1 mg
	above 200 g to 300 g	4 mg
	above 300 g to 3 kg	20 mg
	above 3 kg to 18 kg	0.3 g
		(Calibration is conducted using OIML Class F1 weights from 1 mg to 10 kg)
- Force measurements		
- Proving device (Compression)	Calibration for force in accordance with Cl. A.3.1 of GEOSPEC 3 : 2001 over the following range :	
	0.2 kN to 5 kN	0.37 % of the reading
	above 5 kN to 50 kN	0.29 % of the reading

[@] UNLESS OTHERWISE SPECIFIED, ACCREDITED ACTIVITIES ARE CONDUCTED AT THE LABORATORY.

* THE CALIBRATION UNCERTAINTY OF A DEVICE UNDER TEST IS USUALLY REPORTED AT 95% CONFIDENCE LEVEL AND DEPENDS ON BOTH THE CMC OF THE LABORATORY AND THE PERFORMANCE OF THE DEVICE DURING CALIBRATION.

Gammon Construction Limited – Technology Centre
金門建築有限公司
21, Chun Wang Street, Tseung Kwan O Industrial Estate, New Territories, Hong Kong
香港新界將軍澳工業村駿宏街二十一號

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related measurements		
- Pressure measurements		
- Pressure measuring device	Calibration for pressure in accordance with Cl. A.3.2 of GEOSPEC 3: 2001 using water as pressure medium over the following ranges :	
	50 kPa to 1000 kPa	0.55 % of the reading
	Calibration for pressure in accordance with Cl. A.3.2 of GEOSPEC 3: 2001 using oil as pressure medium over the following ranges :	
	200 kPa to 2000 kPa	1.0 % of the reading
	above 2000 kPa to 25000 kPa	0.48 % of the reading
	Calibration for pressure in accordance with in-house procedure C.O.P./39 using dead weight tester and oil as pressure medium over the following range :	
	1000 kPa to 60000 kPa	20 kPa to 120 kPa

@ UNLESS OTHERWISE SPECIFIED, ACCREDITED ACTIVITIES ARE CONDUCTED AT THE LABORATORY.

* THE CALIBRATION UNCERTAINTY OF A DEVICE UNDER TEST IS USUALLY REPORTED AT 95% CONFIDENCE LEVEL AND DEPENDS ON BOTH THE CMC OF THE LABORATORY AND THE PERFORMANCE OF THE DEVICE DURING CALIBRATION.

Gammon Construction Limited – Technology Centre
金門建築有限公司
21, Chun Wang Street, Tseung Kwan O Industrial Estate, New Territories, Hong Kong
香港新界將軍澳工業村駿宏街二十一號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Cement stabilised soil	Unconfined compressive strength of cement stabilised soil cores (with or without capping)	Interim Guidelines on Testing of Unconfined Compressive Strength of Cement Stabilised Soil Cores in Hong Kong (Oct 2017) Appendix B published by Geotechnical Division of The Hong Kong Institution of Engineers
Soil (Phase I)	Moisture content by oven-drying at 45°C ± 5°C	GEOSPEC 3: 2001 Test 5.1 GEOSPEC 3: 2017 Test 5.1
	Moisture content by oven-drying at 105°C ± 5°C	GEOSPEC 3: 2001 Test 5.2 GEOSPEC 3: 2017 Test 5.2
	Comparative test for the determination of moisture content by oven-drying	GEOSPEC 3: 2001 Test 5.3 GEOSPEC 3: 2017 Test 5.3
	Liquid limit, plastic limit and plasticity index	GEOSPEC 3: 2001 Test 6.1 GEOSPEC 3: 2017 Test 6.1
	Liquidity index	GEOSPEC 3: 2001 Test 6.2 GEOSPEC 3: 2017 Test 6.2
	Particle density by gas jar method	GEOSPEC 3: 2001 Test 7.1 GEOSPEC 3: 2017 Test 7.1
	Particle density by small pyknometer method	GEOSPEC 3: 2001 Test 7.2 GEOSPEC 3: 2017 Test 7.2
	Particle size distribution by wet sieving (with dispersant)	GEOSPEC 3: 2001 Test 8.1 GEOSPEC 3: 2017 Test 8.1
	Particle size distribution by wet sieving (without dispersant)	GEOSPEC 3: 2001 Test 8.2 GEOSPEC 3: 2017 Test 8.2
	Particle size distribution by pipette method (with dispersant)	GEOSPEC 3: 2001 Test 8.3 GEOSPEC 3: 2017 Test 8.3
	Particle size distribution by pipette method (without dispersant)	GEOSPEC 3: 2001 Test 8.4 GEOSPEC 3: 2017 Test 8.4
	Particle size distribution by hydrometer (with dispersant)	GEOSPEC 3: 2001 Test 8.5 GEOSPEC 3: 2017 Test 8.5
	Particle size distribution by hydrometer (without dispersant)	GEOSPEC 3: 2001 Test 8.6 GEOSPEC 3: 2017 Test 8.6

Gammon Construction Limited – Technology Centre
金門建築有限公司
21, Chun Wang Street, Tseung Kwan O Industrial Estate, New Territories, Hong Kong
香港新界將軍澳工業村駿宏街二十一號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Soil (Phase I) (cont'd)	Construction of a continuous particle size distribution curve from the results of wet sieving and sedimentation tests	GEOSPEC 3: 2001 Test 8.7 GEOSPEC 3: 2017 Test 8.7
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a 1000 cc mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.1 GEOSPEC 3: 2017 Test 10.1
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a 1000 cc mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.2 GEOSPEC 3: 2017 Test 10.2
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a CBR mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.3 GEOSPEC 3: 2017 Test 10.3
	Dry density/moisture content relationship of soils containing particles which are susceptible to cursching (using a CBR mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.4 GEOSPEC 3: 2017 Test 10.4
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a 1000 cc mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.5 GEOSPEC 3: 2017 Test 10.5
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a 1000 cc mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.6 GEOSPEC 3: 2017 Test 10.6
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a CBR mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.7 GEOSPEC 3: 2017 Test 10.7
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a CBR mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.8 GEOSPEC 3: 2017 Test 10.8

Gammon Construction Limited – Technology Centre
金門建築有限公司
21, Chun Wang Street, Tseung Kwan O Industrial Estate, New Territories, Hong Kong
香港新界將軍澳工業村駿宏街二十一號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Soil (Phase I) (cont'd)	In-situ bulk density and in-situ dry density of soils by the sand replacement method suitable for fine- and medium-grained soils (with small pouring cylinder)	GEOSPEC 3: 2001 Test 11.1 GEOSPEC 3: 2017 Test 11.1
	In-situ bulk density and in-situ dry density of soils by the sand replacement method suitable for fine-, medium-, and coarse-grained soils (with large pouring cylinder)	GEOSPEC 3: 2001 Test 11.2 GEOSPEC 3: 2017 Test 11.2
	Relative compaction of fill material	GEOSPEC 3: 2001 Test 11.4 GEOSPEC 3: 2017 Test 11.4 Buildings Department PNAP 55: 1994 Cl. 2 App. A
	California Bearing Ratio (CBR)	GEOSPEC 3: 2001 Test 12.1 GEOSPEC 3: 2017 Test 12.1

Gammon Construction Limited – Technology Centre
金門建築有限公司
21, Chun Wang Street, Tseung Kwan O Industrial Estate, New Territories, Hong Kong
香港新界將軍澳工業村駿宏街二十一號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Soil (Phase II)	Preparation of remoulded test specimens from disturbed soil samples	GEOSPEC 3: 2001 Test 13.2 GEOSPEC 3: 2017 Test 13.2
	Preparation of test specimens from undisturbed soil samples	GEOSPEC 3: 2001 Test 13.3 GEOSPEC 3: 2017 Test 13.3
	One-dimensional consolidation test	GEOSPEC 3: 2001 Test 14.1 GEOSPEC 3: 2017 Test 14.1
	Isotropic compression test in a triaxial cell	GEOSPEC 3: 2001 Test 14.2 GEOSPEC 3: 2017 Test 14.2
	Unconsolidated undrained triaxial compression test without pore pressure measurement	GEOSPEC 3: 2001 Test 15.1 GEOSPEC 3: 2017 Test 15.1
	Isotropically consolidated undrained triaxial compression test with pore pressure measurement	GEOSPEC 3: 2001 Test 15.2 GEOSPEC 3: 2017 Test 15.2
	Isotropically consolidated drained triaxial compression test with measurement volume change	GEOSPEC 3: 2001 Test 15.3 GEOSPEC 3: 2017 Test 15.3
	Direct shear test (small shear box apparatus)	GEOSPEC 3: 2001 Test 16.1 GEOSPEC 3: 2017 Test 16.1
	Shear strength of soils using triaxial apparatus – the isotropically consolidated undrained triaxial compression test with pore pressure measurement on loosely compacted fill material	GEOSPEC 3: 2001 Test 15.2 with modifications GEOSPEC 3: 2017 Test 15.2 with modifications
Soil (other)	Density of soil by linear measurement method	BS 1377: Part 2: 1990 Cl. 7.2
	Resistivity of soil by disc electrodes method	BS 1377: Part 3: 1990 Cl. 10.2
	Resistivity of soil by open container method	BS 1377: Part 3: 1990 Cl. 10.4
	Redox potential	BS 1377: Part 3: 1990 Cl. 11

Gammon Construction Limited – Technology Centre
金門建築有限公司
21, Chun Wang Street, Tseung Kwan O Industrial Estate, New Territories, Hong Kong
香港新界將軍澳工業村駿宏街二十一號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Soil (chemical analysis)	Organic matter content	GEOSPEC 3: 2001 Test 9.1 GEOSPEC 3: 2017 Test 9.1
	Loss-on-ignition	GEOSPEC 3: 2001 Test 9.2 GEOSPEC 3: 2017 Test 9.2
	Total sulphate content	GEOSPEC 3: 2001 Test 9.3 GEOSPEC 3: 2017 Test 9.3
	Water-soluble sulphate content	GEOSPEC 3: 2001 Test 9.3 GEOSPEC 3: 2017 Test 9.3
	Water-soluble chloride content	GEOSPEC 3: 2001 Test 9.4 GEOSPEC 3: 2017 Test 9.4
	pH value	GEOSPEC 3: 2001 Test 9.5 GEOSPEC 3: 2017 Test 9.5
	Determination of the carbonate content	BS 1377: Part 3: 1990 Cl. 6 (excluding Cl. 6.4 : Gravimetric Method)
Ground water (chemical analysis)	Sulphate content (as SO3)	GEOSPEC 3: 2001 Test 9.3 GEOSPEC 3: 2017 Test 9.3
	pH value	GEOSPEC 3: 2001 Test 9.5 GEOSPEC 3: 2017 Test 9.5

Gammon Construction Limited – Technology Centre
金門建築有限公司
21, Chun Wang Street, Tseung Kwan O Industrial Estate, New Territories, Hong Kong
香港新界將軍澳工業村駿宏街二十一號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Rock	Unconfined compressive strength of intact rock core specimens	ASTM D2938-95 with modifications
	Preparation of rock core specimens and determination of dimensional and shape tolerances	ASTM D4543-91
	Direct shear strength of jointed rock	ASTM D5607-95 with modifications
	Point load strength index of rock by diametral, axial, block and irregular lump tests	ASTM D5731-95 with modifications ASTM D5731-02 with modifications ASTM D5731-16 with modifications International Society for Rock Mechanics (1985) Suggested method for determining point load strength with modifications

Bureau Veritas Hong Kong Limited - Kowloon Bay Office
立德國際公証香港有限公司 - 九龍灣辦事處

ADDRESS : 1/F., Pacific Trade Centre, 2 Kai Hing Road, Kowloon Bay, Kowloon, Hong Kong
地址 香港九龍九龍灣啟興道2號太平洋貿易中心1樓

ENQUIRY : Mr Kent LAI Ka-ming
查詢 Director
賴家明先生，總監

TELEPHONE : (852) 2331 0888
電話

FAX : (852) 2331 0889
傳真

E-MAIL : kent.lai@hk.bureauveritas.com
電郵

WEBSITE ADDRESS : www.bureauveritas.com/cps/
網址

CLIENTELE : Public
服務對象 公眾

Bureau Veritas Hong Kong Limited - Kowloon Bay Office
立德國際公証香港有限公司 – 九龍灣辦事處

ADDRESS : 1/F., Pacific Trade Centre, 2 Kai Hing Road, Kowloon Bay, Kowloon, Hong Kong
地址 香港九龍九龍灣啟興道 2 號太平洋貿易中心 1 樓

Room 2106-2107, 21/F, Westin Centre, 26 Hung To Road, Kwun Tong, Kowloon, Hong Kong.
香港九龍觀塘鴻圖道 26 號威登中心 21 樓 2106-2107 室

ACCREDITED TEST CATEGORY : Testing Required by the China Compulsory Certification System (CCC)
認可測試類別 中國強制性產品認證制度規定的檢測
Chemical Testing 化學測試
Electrical and Electronic Products 電氣及電子產品
Environmental Testing 環境測試
Food 食品
Miscellaneous 雜類
Pharmaceutical Products 藥物
Textiles and Garments 紡織品及成衣
Toys and Children's Products 玩具及兒童產品

Bureau Veritas Hong Kong Limited - Kowloon Bay Office
立德國際公証香港有限公司 – 九龍灣辦事處

1/F., Pacific Trade Centre, 2 Kai Hing Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣啟興道 2 號太平洋貿易中心 1 樓

Testing Required by the China Compulsory Certification System (CCC) 中國強制性產品認證制度規定的檢測		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Toy and children's product 兒童用品 - Toy *(2202)* - 玩具*(2202)*		
- Electric toy ***<Excluding the following>*** - toy containing gas or liquid - imitation weapon toy - chemical toy - cosmetic toy - toy with direct food contact - percussion cap - toy to be cleaned with liquid	All required tests as specified in CNCA-C22-02: 2020	GB 6675.1-2014 GB 6675.2-2014 + Amendment 1 GB 6675.3-2014 GB 6675.4-2014 GB 19865-2005 + Amendment 1
- 電玩具 ***<不包括>*** - 含氣體或液體玩具 - 仿真武器玩具 - 化學遊戲玩具 - 玩具化妝品 - 與食品直接接觸的玩具 - 玩具火藥帽 - 可能用液體清潔的玩具	CNCA-C22-02: 2020 有關規定的所有檢測	GB 6675.1-2014 GB 6675.2-2014 +第 1 號修改單 GB 6675.3-2014 GB 6675.4-2014 GB 19865-2005 +第 1 號修改單

Bureau Veritas Hong Kong Limited - Kowloon Bay Office
立德國際公証香港有限公司 – 九龍灣辦事處

1/F., Pacific Trade Centre, 2 Kai Hing Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣啟興道 2 號太平洋貿易中心 1 樓

Testing Required by the China Compulsory Certification System (CCC) 中國強制性產品認證制度規定的檢測

ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Toys and children's products (cont'd) 兒童用品(續上)		
- Toy *(2202)* (cont'd) - 玩具*(2202)* (續上)		
- Plastic toy ***<Excluding the following>*** - toy containing gas or liquid - imitation weapon toy - chemical toy - cosmetic toy - toy with direct food contact - percussion cap	All required tests as specified in CNCA-C22-02: 2020	GB 6675.1-2014 GB 6675.2-2014 + Amendment 1 GB 6675.3-2014 GB 6675.4-2014
- 塑膠玩具 ***<不包括>*** - 含氣體或液體玩具 - 仿真武器玩具 - 化學遊戲玩具 - 玩具化妝品 - 與食品直接接觸的玩具 - 玩具火藥帽	CNCA-C22-02: 2020 有關規定的所有檢測	GB 6675.1-2014 GB 6675.2-2014 +第 1 號修改單 GB 6675.3-2014 GB 6675.4-2014
- Metal toy ***<Excluding the following>*** - toy containing gas or liquid - imitation weapon toy - chemical toy - cosmetic toy - toy with direct food contact - percussion cap	All required tests as specified in CNCA-C22-02: 2020	GB 6675.1-2014 GB 6675.2-2014 + Amendment 1 GB 6675.3-2014 GB 6675.4-2014
- 金屬玩具 ***<不包括>*** - 含氣體或液體玩具 - 仿真武器玩具 - 化學遊戲玩具 - 玩具化妝品 - 與食品直接接觸的玩具 - 玩具火藥帽	CNCA-C22-02: 2020 有關規定的所有檢測	GB 6675.1-2014 GB 6675.2-2014 +第 1 號修改單 GB 6675.3-2014 GB 6675.4-2014

Bureau Veritas Hong Kong Limited - Kowloon Bay Office
立德國際公証香港有限公司 – 九龍灣辦事處
1/F., Pacific Trade Centre, 2 Kai Hing Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣啟興道 2 號太平洋貿易中心 1 樓

Chemical Testing 化學測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Products (intended to come into direct contact with skin)	Nickel release	Regulation (EC) No 1907/2006 on REACH Annex XVII Item No 27 as amended by Commission Regulation (EC) No 552/2009 *Test methods for compliance testing for Nickel content:-* EN 1811: 2023 BS EN 1811: 2023
Coated articles that come into direct and prolonged contact with the skin (excluding articles with an outer coating containing nickel and those which are inserted into pierced ears and other parts of the human body)	Nickel release	Regulation (EC) No. 1907/2006 on REACH Annex XVII Item No 27 as amended by Commission Regulation (EC) No. 552/2009 *Compliance test procedures for nickel release content:-* BS EN 12472: 2020 & BS EN 1811:2023 EN 12472: 2020 & EN 1811:2023 Netherlands Law Gazette 1999 No. 149 (Chemical Substances Act) Regulation (EC) No 1907/2006 on REACH Annex XVII Item No 23 as amended by Commission Regulation (EC) No 835/2012 and Commission Regulation (EU) No 2016/217 United Kingdom Environmental Protection (Controls on Injurious Substances) (No.2) Regulations 1993 No. 1643 for cadmium content Swedish Ordinance SFS 1998: 944 German Chemicals Prohibition Ordinance paragraph 18: Cadmium Switzerland Ordinance relating to Environmentally Hazardous Substances (Ordinance on Substances) of 9 June 1986 (updated Jan 1996) with Amd. of 11 Nov 1998, Annex 4.11 & 4.12
Surface coating, fabric, leather, metal, paint, paper, wood and coloured materials	Cadmium content	*Test method for compliance testing for Cadmium content in other materials except plastics:-* In House Method SOP# CH-355C (ICP-AES)
Plastics	Cadmium content	*Test methods for compliance testing for Cadmium content in plastics:-* BS EN 1122: 2001 method B (wet decomposition) EN 1122: 2001 method B (wet decomposition)

Bureau Veritas Hong Kong Limited - Kowloon Bay Office
立德國際公証香港有限公司 – 九龍灣辦事處

1/F., Pacific Trade Centre, 2 Kai Hing Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣啟興道 2 號太平洋貿易中心 1 樓

Chemical Testing 化學測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Products made from leather and textile products	- Amine (Azo colourants) : 4-aminodiphenyl Benzidine 4-chloro-o-toluidine 2-naphthylamine o-aminoazotoluene 5-nitro-o-toluidine 4-chloroanilane 4-methoxy-m-phenylenediamine 4,4'-diaminodiphenylmethane 3,3'-dichlorobenzidine 3,3'-dimethoxybenzidine 3,3'-dimethylbenzidine 4,4'-methylenedi-o- toluidine p-cresidine 4,4'-methylene-bis-(2-chloroaniline) 4,4'-oxydianiline 4,4'-thiodianiline o-toluidine 4-methyl-m-phenylenediamine 2,4,5-trimethylaniline 2-methoxyaniline 4-aminoazobenzene	Regulation (EC) No. 1907/2006 on REACH Annex XVII Item No 43 as amended by Commission Regulation (EC) No. 552/2009 and Commission Regulation (EU) No. 2020/2096 *Test methods for compliance testing for leather products:* EN ISO 17234-1: 2015 *Test method for compliance testing for textile products* EN ISO 14362-1: 2017 *Test methods for compliance testing for leather products:* EN ISO 17234-2: 2011 *Test methods for compliance testing for textile products:* EN ISO 14362-3: 2017 Techniques used are GC-MSD and HPLC-DAD for all test methods listed above.

Bureau Veritas Hong Kong Limited - Kowloon Bay Office
立德國際公証香港有限公司 – 九龍灣辦事處

1/F., Pacific Trade Centre, 2 Kai Hing Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣啟興道 2 號太平洋貿易中心 1 樓

Chemical Testing 化學測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Products made from leather and textile products	- Amine (Azo colourants) :	
	4-aminodiphenyl Benzidine 4-chloro-o-toluidine 2-naphthylamine o-aminoazotoluene 5-nitro-o-toluidine 4-chloroanilane 4-methoxy-m-phenylenediamine 4,4'-diaminodiphenylmethane 3,3'-dichlorobenzidine 3,3'-dimethoxybenzidine 3,3'-dimethylbenzidine 4,4'-methylenedi-o- toluidine p-cresidine 4,4'-methylene-bis-(2-chloroaniline) 4,4'-oxydianiline 4,4'-thiodianiline o-toluidine 4-methyl-m-phenylenediamine 2,4,5-trimethylaniline 2-methoxyaniline	*Test methods for leather products:* EN ISO 17234-1: 2015 BS EN ISO 17234-1: 2015 ISO 17234-1: 2015 *Test method for textile products* ISO 14362-1: 2017 EN ISO 14362-1: 2017 BS EN ISO 14362-1: 2017
	4-aminoazobenzene	*Test methods for leather products:* ISO 17234-2: 2011 EN ISO 17234-2: 2011 BS EN ISO 17234-2: 2011 *Test methods for textile products:* ISO 14362-3: 2017 EN ISO 14362-3: 2017 BS EN ISO 14362-3: 2017 Techniques used are GC-MSD and HPLC-DAD for all test methods listed above.

Bureau Veritas Hong Kong Limited - Kowloon Bay Office
立德國際公証香港有限公司 – 九龍灣辦事處

1/F., Pacific Trade Centre, 2 Kai Hing Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣啟興道 2 號太平洋貿易中心 1 樓

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Safety tests :-	
Consumer product containing button cell or coin batteries	- Compliance inspection and safety tests	16 CFR Part 1263 in conjunction with ANSI/UL 4200A-2023 ANSI/UL 4200A-2023

Bureau Veritas Hong Kong Limited - Kowloon Bay Office
立德國際公証香港有限公司 – 九龍灣辦事處

1/F., Pacific Trade Centre, 2 Kai Hing Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣啟興道 2 號太平洋貿易中心 1 樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Water and Wastewater	Microbial indicator :-	
	- Total coliform count	APHA 24e 9222B (Membrane Filtration Method) DoE(1983) The Bacteriological Examination of Drinking Water Supplies, 1982 (Membrane Filtration Procedure: Sections 7.8, 7.9.4.1 and 7.9.4.2; Bacterial Confirmation: Section 7.9.4.3) The Microbiology of Drinking Water (2009) - Part 4A Method for the Examination of Water and Associated Materials, Environmental Agency, UK, < ***Excluding the following*** > Application of agar medium
	- Fecal coliform count	APHA 24e 9222D (Membrane Filtration Method)
	- E. coli count	APHA 24e 9222D & H (Membrane Filtration Method) APHA 24e 9222D & I (Membrane Filtration Method) DoE (1983) The Bacteriological Examination of Drinking Water Supplies 1982, Sections 7.8 & 7.9, (Membrane Filtration Procedure: Section 7.8, 7.9.4.1, and 7.9.4.2; Bacterial Confirmation: in-situ urease test: by Appl. Environ. Microbiol. (1975), Vol. 29(6), 826-833) The Microbiology of Drinking Water (2009) - Part 4A Method for the Examination of Water and Associated Materials, Environmental Agency, UK, < ***Excluding the following*** > Application of agar medium
	- Heterotrophic plate count (35ºC colony count) (28ºC colony count)	APHA 24e 9215A&B (Pour Plate Method)

Bureau Veritas Hong Kong Limited - Kowloon Bay Office
立德國際公証香港有限公司 – 九龍灣辦事處

1/F., Pacific Trade Centre, 2 Kai Hing Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣啟興道 2 號太平洋貿易中心 1 樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Toxicological tests :-	
Food containers (ceramic ware)	- Leachable Cadmium and Lead	US FDA Compliance Policy Guides 7117.06 (2005)- 7117.07 (2005) *Test procedures for compliance:-* AOAC Official Method 973.32 (2005) AOAC Official Method 973.82 (2005) **< *Excluding the following* >** Clause F ASTM C738-94 (Reapproved 2020)
Food containers (lip & rim areas of glass tumblers externally decorated with ceramic glass enamels)	- Leachable Cadmium and Lead	ASTM C927-80 (Reapproved 2019)e1
Food containers (Glazed ceramic and glassware, excluding decorative products)	- Lead and cadmium	Canada Consumer Product Safety Act (S.C. 2010, c.21) Glazed Ceramics and Glassware Regulations SOR2016-175 *Test procedures for compliance testing:* Health Canada Product Safety Reference manual Book 5 – Laboratory Policies and Procedures Part B: Test Methods Section, Method C-10: Determination of Leachable Lead and Cadmium from Glazed Ceramics and Glassware by Flame Atomic Absorption Spectrometer (2017-10-20)

Bureau Veritas Hong Kong Limited - Kowloon Bay Office
立德國際公証香港有限公司 – 九龍灣辦事處

1/F., Pacific Trade Centre, 2 Kai Hing Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣啟興道 2 號太平洋貿易中心 1 樓

Miscellaneous 雜類		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Cosmetics, Liquids, Pastes, Putties, Gels and Powders	Microbiological tests :-	
	- Antimicrobial effectiveness testing	USP-NF 2024, Issue 3, Chapter < 51 >
	- Efficacy of antimicrobial preservation	British Pharmacopoeia (2023) App. XVI C European Pharmacopoeia 11th edition (2023), General texts 5.1.3
	Microbiological examination of non- sterile products:	
	- Microbial enumeration test	USP-NF 2024, Issue 3, Chapter < 61 > British Pharmacopoeia (2023) App. XVI B, Method 2 European Pharmacopoeia 11th edition (2023), Method 2.6.12
	- Test for specified microorganisms	USP-NF 2024, Issue 3, Chapter < 62 > British Pharmacopoeia (2023) App. XVI B, Method 1 European Pharmacopoeia 11th edition (2023), Method 2.6.13

Bureau Veritas Hong Kong Limited - Kowloon Bay Office
立德國際公証香港有限公司 – 九龍灣辦事處

1/F., Pacific Trade Centre, 2 Kai Hing Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣啟興道 2 號太平洋貿易中心 1 樓

Miscellaneous 雜類

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Microbiological tests (cont'd) :-	
Cosmetics	Microbiological examination of non- sterile products:	The European Cosmetic Regulation 1223/2009/EC (Annex I, Part A: Item 3) and The SCCS Notes of Guidance for the Testing of Cosmetics Ingredients and Their Safety Evaluation, 12th Revision, 21 December 2023, SCCS/1647/22, Corrigendum 2 Appendix 9 Guidelines on Microbiological Quality of the Finished Cosmetic Product
		Test procedures for compliance testing:-
	- Microbial Enumeration Test	British Pharmacopoeia (2023) App. XVI B, Method 2 European Pharmacopoeia 11th edition (2023), Method 2.6.12
	- Test for specified microorganisms	British Pharmacopoeia (2023) App. XVI B, Method 1 European Pharmacopoeia 11th edition (2023), Method 2.6.13
	- Efficacy of antimicrobial preservation	British Pharmacopoeia (2023) App. XVI C European Pharmacopoeia 11th edition (2023), General texts 5.1.3
Water	- Total coliform count	DoE(1983) The Bacteriological Examination of Drinking Water Supplies, 1982 (Membrane Filtration Procedure: Sections 7.8, 7.9.4.1 and 7.9.4.2; Bacterial Confirmation: Section 7.9.4.3)

Bureau Veritas Hong Kong Limited - Kowloon Bay Office
立德國際公証香港有限公司 – 九龍灣辦事處
1/F., Pacific Trade Centre, 2 Kai Hing Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣啟興道 2 號太平洋貿易中心 1 樓

Pharmaceutical Products 藥物		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Pharmaceutical articles	Microbiological tests :- Microbiological examination of non- sterile products: - Microbial Enumeration Test - Test for specified microorganisms	*Acceptance criteria:* The Japanese Pharmacopoeia, JP XVIII (2021) <G4-1-170> G4 Microorganisms, Microbial Attributes of Non-sterile Pharmaceutical Products *Test procedures for compliance testing:* The Japan Pharmacopoeia, JP XVIII (2021) General test 4.05 Microbiological Examination of non-sterile products
	- Microbial Enumeration Test	*Acceptance criteria:* USP-NF 2024, Issue 3, Chapter <1111> *Test procedures for compliance testing:* USPNF 2024, Issue 3, Chapter < 61 > *Acceptance criteria:* British Pharmacopoeia (2023) App. XVI D *Test procedures for compliance testing:* British Pharmacopoeia (2023) App. XVI B, Method 2 *Acceptance criteria:* European Pharmacopoeia 11th edition (2023), General texts 5.1.4 *Test procedures for compliance testing:* European Pharmacopoeia 11th edition (2023), Method 2.6.12
	- Test for specified microorganisms	*Acceptance criteria:* USP-NF 2024, Issue 3, Chapter <1111> *Test procedures for compliance testing:* USP-NF 2024, Issue 3, Chapter <62> *Acceptance criteria:* British Pharmacopoeia (2023) App. XVI D *Test procedures for compliance testing:* British Pharmacopoeia (2023) App. XVI B, Method 1 *Acceptance criteria:* European Pharmacopoeia 11th edition (2023), General texts 5.1.4 *Test procedures for compliance testing:* European Pharmacopoeia 11th edition (2023), Method 2.6.13

Bureau Veritas Hong Kong Limited - Kowloon Bay Office
立德國際公証香港有限公司 – 九龍灣辦事處

1/F., Pacific Trade Centre, 2 Kai Hing Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣啟興道 2 號太平洋貿易中心 1 樓

Textiles and Garments 紡織品及成衣		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
General Textiles and Garments :-		
	Care performance tests :-	
- General Textiles and Garments	- Dimensional stability to washing	AATCC TM135-2018t
	- Skewness after washing	AATCC TM179-2023
	- Wash and wear performance	AATCC TM124-2018te

Bureau Veritas Hong Kong Limited - Kowloon Bay Office
立德國際公証香港有限公司 – 九龍灣辦事處

1/F., Pacific Trade Centre, 2 Kai Hing Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣啟興道 2 號太平洋貿易中心 1 樓

Textiles and Garments 紡織品及成衣

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
General Textiles and Garments :- (cont'd)	Colour fastness tests :- 色牢度 :-	
- General Textiles and Garments 一般紡織品及成衣	- Light	AATCC TM16.3-2020
	- Perspiration 耐汗漬色牢度	AATCC TM15-2021e ISO 105-E04: 2013 ***<Excluding the following>*** for the above two standards Instrument rating method GB/T 3922- 2013
	- Phenolic yellowing	ISO 105-X18: 2007 ***<Excluding the following>*** Instrument rating method
	- Rubbing/crocking	AATCC TM8-2016e(2022e)
	- Seawater	AATCC TM106-2009e(2013)e3 ISO 105-E02: 2013 ***<Excluding the following>*** for the above two standards Instrument rating method
	- Water 耐水色牢度	AATCC TM107-2022e ISO 105-E01: 2013 ***<Excluding the following>*** for the above two standards Instrument rating method GB/T 5713-2013

Bureau Veritas Hong Kong Limited - Kowloon Bay Office
立德國際公証香港有限公司 – 九龍灣辦事處

1/F., Pacific Trade Centre, 2 Kai Hing Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣啟興道 2 號太平洋貿易中心 1 樓

Textiles and Garments 紡織品及成衣

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
General Textiles and Garments :- (cont'd)	Construction tests:	
- General Textiles and Garments	- Threads per unit length, woven	ASTM D3775-17(2023)
	- Weft knit, stitch density	ASTM D3887-96 (2008) Section 12
	Fabric performance tests :-	
- General Textiles and Garments	- Soil release performance	AATCC TM130-2018t
	- Stretch and recovery	ASTM D4964-96 (2020)
	- Water repellency (spray rating)	AATCC TM22-2017e
	- Wrinkle Recovery (Appearance method)	AATCC TM128-2017e2

Bureau Veritas Hong Kong Limited - Kowloon Bay Office
立德國際公証香港有限公司 – 九龍灣辦事處

1/F., Pacific Trade Centre, 2 Kai Hing Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣啟興道 2 號太平洋貿易中心 1 樓

Textiles and Garments 紡織品及成衣

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
General Textiles and Garments :- (cont'd)	Fibre analysis :-	
- General Textiles and Garments	- Fibre content (Qualitative method)	AATCC TM20-2021 ***<Excluding the following>*** Cl. 9.4 (Refractive index), 9.6 (Density), 9.9 (Stain Tests), 9.10 (Melting Point) and 9.11 (Micro-FTIR)
	- Fibre content (Quantitative method – mechanical Separation, chemical analysis and microscopic analysis)	AATCC TM20A-2021e ***<Excluding the following>*** Methods 9.1.4 (enzyme treatment) and 13.3 (stain test)
	- Fibre content (quantitative method - mechanical separation and chemical analysis)	BS 4407: 1988 ***< Excluding the following >*** Methods 13, 17 and 18 Regulation (EU) no 1007/2011 ***< Excluding the following >*** Methods 12, 15 and Annex X

Bureau Veritas Hong Kong Limited - Kowloon Bay Office
立德國際公証香港有限公司 – 九龍灣辦事處

1/F., Pacific Trade Centre, 2 Kai Hing Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣啟興道 2 號太平洋貿易中心 1 樓

Textiles and Garments 紡織品及成衣		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
General Textiles and Garments :- (cont'd)	Fibre analysis :- (cont'd)	
- General Textiles and Garments	- Fibre content (quantitative method - mechanical separation and chemical analysis) (cont'd)	ISO 1833-1: 2020 (Note: The above Part 1 standard should be used in conjunction with other parts of ISO 1833 for particular fibre mixtures) ISO 1833-2: 2020 ISO 1833-3: 2020 ISO 1833-4: 2023 ISO 1833-5: 2006 ISO 1833-6: 2018 ISO 1833-7: 2017 ISO 1833-8: 2006 ISO 1833-9: 2019 ISO 1833-10: 2019 ISO 1833-11: 2017 ISO 1833-12: 2020 ISO 1833-13: 2019 ISO 1833-14: 2019 ISO 1833-16: 2019 ISO 1833-17: 2019 ISO 1833-18: 2020 ISO 1833-20: 2018

Bureau Veritas Hong Kong Limited - Kowloon Bay Office
立德國際公証香港有限公司 – 九龍灣辦事處

1/F., Pacific Trade Centre, 2 Kai Hing Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣啟興道 2 號太平洋貿易中心 1 樓

Textiles and Garments 紡織品及成衣

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
General Textiles and Garments (cont'd)		
	Flammability tests :-	
- General Textiles and Garments	- 45 degree angle test	US 16 CFR Part 1610 CAN/CGSB-4.2 No. 27.5-2023
Specific Products :-		
- Wearing apparel	- Flammability of vinyl plastic film	US 16 CFR Part 1611
- Children's sleepwear	- Vertical test	US 16 CFR Parts 1615 and 1616
- Carpet and rugs	- Method for determining the surface flammability when exposed to a methenamine tablet	US 16 CFR Parts 1630 and 1631
	Strength tests :-	
- General Textiles and Garments	- Bursting strength (Diaphragm bursting method)	ASTM D3786/D3786M-18(2023)
	- Pile retention (Corduroy fabrics)	ASTM D4685/D4685M-15 (2020)
	- Tensile strength (Grab method)	BS EN ISO 13934-2: 2014
	- Tearing strength (Elmendorf)	ISO 13937-1: 2000 with Corr. 1 (2004)

Bureau Veritas Hong Kong Limited - Kowloon Bay Office
立德國際公証香港有限公司 – 九龍灣辦事處

1/F., Pacific Trade Centre, 2 Kai Hing Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣啟興道 2 號太平洋貿易中心 1 樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests :-	
Ceramicware (ceramic toy components intended or likely to hold food)	- Lead and cadmium Contamination	ASTM F963-17 Cl. 4.3.3.2 & FDCA Section 402 (a) (2) (c) & applicable US FDA Compliance Policy Guides ASTM F963-23 Cl. 4.3.3.2 & FDCA Section 402 (a) (2) (c) & applicable US FDA Compliance Policy Guides *Test procedures for compliance testing of lead and cadmium contents:-* ASTM C738-94 (Reapproved 2020)
Child use and care articles – cutlery and feeding utensils	- Bis-(2-ethylhexyl) Phthalate (DEHP) - Dibutyl Phthalate (DBP) - Benzyl Butyl Phthalate (BBP) - Di-n-octyl Phthalate (DNOP) - Diisononyl Phthalate (DINP) - Diisodecyl Phthalate (DIDP)	EN14372: 2004 Cl. 5.4.2.3 and 6.3.2 ***<Excluding the following>*** Gravimetric method
Toys and other articles intended for use by children – paint and other similar surface-coating materials	- Total lead content	US Public Law 110-314 Consumer Product Safety Improvement Act 2008 US 16 CFR Part 1303 *Test procedures for compliance testing:-* CPSC Test Method: CPSC-CH-E1003-09.1 Standard Operating Procedure for Determining Lead (Pb) in Paint & other similar Surface Coatings, February 25, 2011
Toys – paint and similar surface-coating materials	- Total lead content	ASTM F963-17 Cl. 4.3.5.1 (1) ASTM F963-23 Cl. 4.3.5.1 (1) *Test procedures for compliance testing:-* CPSC Test method: CPSC-CH-E1003-09.1 Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings, February 25, 2011
	- Total element content screening Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	ASTM F963-17 Cl. 4.3.5.1 (2) and 8.3.1.3 ASTM F963-23 Cl. 4.3.5.1 (2) and 8.3.1.3 *Test procedures for compliance testing:-* In-house method: SOP# CH-572C (ICP-OES)

Bureau Veritas Hong Kong Limited - Kowloon Bay Office
立德國際公証香港有限公司 – 九龍灣辦事處

1/F., Pacific Trade Centre, 2 Kai Hing Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣啟興道 2 號太平洋貿易中心 1 樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests (cont'd) :-	
Toys – paint and similar surface-coating Materials (cont'd)	- Migration of the elements Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	ASTM F963-17 Cl. 4.3.5.1 (2) *Test procedures for compliance testing:-* ASTM F963-17 Cl. 8.3.2 – 8.3.4
	- Migration of the elements Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	ASTM F963-23 Cl. 4.3.5.1 (2) *Test procedures for compliance testing:-* ASTM F963-23 Cl. 8.3.2 – 8.3.4
Toys – substrate materials (not including children's jewelry)	- Total lead content	ASTM F963-17 Cl. 4.3.5.2 (2)(a) ASTM F963-23 Cl. 4.3.5.2 (2)(a) *Test procedures for compliance testing:-* CPSC Test Method: CPSC-CH-E1001-08.3 Standard Operating Procedure for Determining Total Lead (Pb)in Children's Metal Products (Including Children's Metal Jewelry), November 15, 2012 ***<Excluding the following >*** XRF spectrometry CPSC Test Method: CPSC-CH-E1002-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Non-Metal Children's Products, November 15, 2012 ***<Excluding the following >*** XRF spectrometry
	- Total element content screening Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	ASTM F963-17 Cl. 4.3.5.2 (2)(b) & (c) and 8.3.1.3 ASTM F963-23 Cl. 4.3.5.2 (2)(b) & (c) and 8.3.1.3 *Test procedures for compliance testing:-* In-house method: SOP# CH-572C (ICP-OES)
	- Migration of the elements Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	ASTM F963-17 Cl. 4.3.5.2 (2)(b) *Test procedures for compliance testing:-* ASTM F963-17 Cl. 8.3.5
	- Migration of the elements Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	ASTM F963-23 Cl. 4.3.5.2 (2)(b) & (c) *Test procedures for compliance testing:-* ASTM F963-23 Cl. 8.3.5

Bureau Veritas Hong Kong Limited - Kowloon Bay Office
立德國際公証香港有限公司 – 九龍灣辦事處
1/F., Pacific Trade Centre, 2 Kai Hing Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣啟興道 2 號太平洋貿易中心 1 樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests (cont'd) :-	
Metallic toys or metallic toy components	- Extractable Cadmium	ASTM F963-17 Cl. 4.3.5.2 (2)(c) *Test procedures for compliance testing:-* ASTM F963-17 Cl. 8.3.5.5 (3) and CPSC Test Method: CPSC-CH-E1004-11 Standard Operating Procedure for Determining Cadmium (Cd) Extractability from Children's Metal Jewelry February 03, 2011 ***<Excluding the following >*** Cl. 8, 9 and 10
	- Extractable Cadmium	ASTM F963-23 Cl. 4.3.5.2 (2)(d) *Test procedures for compliance testing:-* ASTM F963-23 Cl. 8.3.5.5 (3) and CPSC Test Method: CPSC-CH-E1004-11 Standard Operating Procedure for Determining Cadmium (Cd) Extractability from Children's Metal Jewelry February 03, 2011 ***<Excluding the following >*** Cl. 8, 9 and 10

Bureau Veritas Hong Kong Limited - Kowloon Bay Office
立德國際公証香港有限公司 – 九龍灣辦事處

1/F., Pacific Trade Centre, 2 Kai Hing Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣啟興道 2 號太平洋貿易中心 1 樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests (cont'd) :-	
Children's metal products	- Total lead content	US Public Law 110-314 Consumer Product Safety Improvement Act 2008 *Test procedures for compliance testing:-* CPSC Test Method: CPSC-CH-E1001-08.3 Standard Operating Procedure for Determining Total Lead (Pb)in Children's Metal Products (Including Children's Metal Jewelry), November 15, 2012 ***<Excluding the following >*** XRF spectrometry
Children's non-metal products	- Total lead content	*Test procedures for compliance testing:-* CPSC Test Method: CPSC-CH-E1002-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Non-Metal Children's Products, November 15, 2012 ***<Excluding the following >*** XRF spectrometry
Toys and childcare articles	- Dibutyl Phthalate (DBP) - Di-(2ethylhexyl) phthalate (DEHP) - Benzyl Butyl Phthalate (BBP) - Diisononyl phthalate (DINP) - Diisobutyl phthalate (DIBP) - Di-n-pentyl phthalate (DPP/DPENP) - Di-n-hexyl phthalate (DnHP / DHEXP) - Dicyclohexyl phthalate (DCP/DCHP)	US Public Law 110 -314 Consumer Product Safety Improvement Act 2008 and US 16 CFR Part 1307 *Test procedures for compliance testing:* CPSC Test Method: CPSC-CH-C1001-09.4 Standard Operating Procedure for Determination of Phthalates, January 17, 2018

Bureau Veritas Hong Kong Limited - Kowloon Bay Office
立德國際公証香港有限公司 – 九龍灣辦事處
1/F., Pacific Trade Centre, 2 Kai Hing Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣啟興道 2 號太平洋貿易中心 1 樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests (cont'd) :-	
Toys and components made of coating, PVC, PU, PVA, PVDC, ABS, PP and rubber 塗層, 含聚氯乙烯, 聚氨酯, 聚乙烯醇, 聚偏二氯乙烯, 丙烯腈-丁二烯-苯乙烯共聚物, 聚丙烯和橡膠的玩具材料和部件	Phthalates鄰苯二甲酸酯: - Diisobutyl phthalate (DIBP) 鄰苯二甲酸二異丁酯 - Dibutyl Phthalate (DBP) 鄰苯二甲酸二丁酯 - Benzyl Butyl Phthalate (BBP) 鄰苯二甲酸丁苄酯 - Bis-(2ethylhexyl) phthalate (DEHP) 鄰苯二甲酸二(2-乙基)己酯 - Di-n-octyl phthalate (DNOP) 鄰苯二甲酸二正辛酯 - Di-iso-nonyl phthalate (DINP) 鄰苯二甲酸二異壬酯 - Di-iso-decyl phthalate (DIDP) 鄰苯二甲酸二異癸酯	GB/T 22048-2022 方法A
Toys and components made of coating, PVC, PU, PVA, PVDC, ABS, PP and rubber 塗層, 含聚氯乙烯, 聚氨酯, 聚乙烯醇, 聚偏二氯乙烯, 丙烯腈-丁二烯-苯乙烯共聚物, 聚丙烯和橡膠的玩具材料和部件	Phthalates 鄰苯二甲酸酯: 鄰苯二甲酸二異丁酯 - Dibutyl Phthalate (DBP) 鄰苯二甲酸二丁酯 - Benzyl Butyl Phthalate (BBP) 鄰苯二甲酸丁苄酯 - Bis-(2ethylhexyl) phthalate (DEHP) 鄰苯二甲酸二(2-乙基)己酯 - Di-n-octyl phthalate (DNOP) 鄰苯二甲酸二正辛酯 - Di-iso-nonyl phthalate (DINP) 鄰苯二甲酸二異壬酯 - Di-iso-decyl phthalate (DIDP) 鄰苯二甲酸二異癸酯	GB 6675.1-2014 Cl. 5.3.7 *Test procedures for compliance testing:* GB/T 22048-2015 方法 A GB/T 22048-2022 方法 A

Bureau Veritas Hong Kong Limited - Kowloon Bay Office
立德國際公証香港有限公司 – 九龍灣辦事處

1/F., Pacific Trade Centre, 2 Kai Hing Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣啟興道 2 號太平洋貿易中心 1 樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Chemical tests (cont'd) :-	
Toys and children's products (Coating, PVC, PU, PVA, PVDC, ABS, PP and rubber)	- Dibutyl Phthalate (DBP) - Di-(2ethylhexyl) phthalate (DEHP) - Benzyl Butyl Phthalate (BBP) - Di-n-octyl phthalate (DnOP) - Diisononyl phthalate (DINP) - Diisodecyl phthalate (DIDP)	IS 9873 (Part 6): 2021 Method A IS 9873 (Part 9): 2017 *Test Procedures for Compliance testing:* IS 9873 (Part 6): 2021 Method A
Vinyl (PVC) in toys or childcare article	- Dibutyl Phthalate (DBP) - Di-(2ethylhexyl) phthalate (DEHP) - Benzyl Butyl Phthalate (BBP) - Di-n-octyl phthalate (DnOP) - Diisononyl phthalate (DINP) - Diisodecyl phthalate (DIDP)	
Toys and children's products	- Diisobutyl phthalate (DIBP) - Dibutyl Phthalate (DBP) - Di-(2ethylhexyl) phthalate (DEHP) - Benzyl Butyl Phthalate (BBP) - Di-n-octyl phthalate (DnOP) - Diisononyl phthalate (DINP) - Diisodecyl phthalate (DIDP)	ISO 8124-6: 2023 Method A
All toys 玩具	- Migration of the elements 特定元素的遷移 antimony, chromium, selenium, arsenic, cadmium, mercury, barium, lead 銻, 鉻, 硒, 砷, 鎘, 汞, 鋇, 鉛	GB 6675.1-2014 Cl. 5.3.3 & 5.3.4 *Test procedures for compliance testing:* GB 6675.4-2014
All toys	- Migration of the elements antimony, chromium, selenium, arsenic, cadmium, mercury, barium, lead	IS 9873 (Part 3): 2017 IS 9873 (Part 3): 2020 (for dewaxing: Method A) BS 5665: Part 3: 1995
All toys	- Migration of the elements antimony, chromium, selenium, arsenic, cadmium, mercury, barium, lead, boron	AS/NZS ISO 8124-3: 2021 Amd1: 2023 (for dewaxing: Method A) ISO 8124-3: 2020/Amd1: 2023 (for dewaxing: Method A)

Bureau Veritas Hong Kong Limited - Kowloon Bay Office
立德國際公証香港有限公司 – 九龍灣辦事處

1/F., Pacific Trade Centre, 2 Kai Hing Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣啟興道 2 號太平洋貿易中心 1 樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests (cont'd) :-	
Toys	- Migration of certain elements:	BS EN 71-3:2019+A1:2021 EN 71-3:2019+A1:2021 BS EN 71-3:2019+A2:2024 EN 71-3:2019+A2:2024
Category I toy materials: Dry, brittle, powder like or pliable materials	Aluminium, Antimony, Arsenic, Barium, Boron, Cadmium, Cobalt, Copper, Chromium, Lead, Manganese, Mercury, Nickel, Selenium, Strontium, Tin and Zinc	Annex E (ICP-MS)
	Chromium (VI) and Chromium (III) (by calculation)	Annex F (IC-ICP-MS)
	Organic Tin: Methyl tin, Dimethyl tin, Butyltin, Dibutyl tin, Tributyl tin, Tetrabutyltin, n-Octy tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin, Triphenyl tin	Annex G (GC-MS)
Category III toy materials: Scraped-off materials	Aluminium, Antimony, Arsenic, Barium, Boron, Cadmium, Cobalt, Copper, Chromium, Lead, Manganese, Mercury, Nickel, Selenium, Strontium, Tin and Zinc	Annex E (ICP-MS)
	Chromium (for screening for Cr(VI))	Alternative method as documented in SOP# CH-633C (ICP-MS)
	Chromium (VI) and Chromium (III) (by calculation)	Annex F (IC-ICP-MS)
	Organic Tin: Methyl tin, Dimethyl tin, Butyltin, Dibutyl tin, Tributyl tin, Tetrabutyltin, n-Octy tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin, Triphenyl tin	Annex G (GC-MS)

Bureau Veritas Hong Kong Limited - Kowloon Bay Office
立德國際公証香港有限公司 – 九龍灣辦事處

1/F., Pacific Trade Centre, 2 Kai Hing Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣啟興道 2 號太平洋貿易中心 1 樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Chemical tests (cont'd) :-	
All toys and children's products – surface coating material		Canada Consumer Product Safety Act (S.C. 2010, c.21), Surface Coating Materials Regulations SOR/2016-193, as amended by Regulations Amending Certain Regulations Made Under the Canada Consumer Product Safety Act (Surface Coating Materials) SOR/2022-122, Sections 2 and Section 5
	- Total lead content	*Test procedures for compliance testing:* Health Canada Product Safety Laboratory, Reference Manual Book 5 – Laboratory Policies and Procedures, Part B: Test Method Section, Method C-02.2.2: Determination of Total Lead in Surface Coating Materials in Consumer Products by Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES) (2020-01-23)
	- Total mercury content	*Test procedures for compliance testing:* In-house method: SOP# CH-543C (ICP-MS)
		Canada Consumer Product Safety Act (S.C. 2010, c.21), Consumer Products Containing Lead Regulations SOR/2018-83, Section 2
All toys and children's products – surface coating material	- Total lead content	*Test procedures for compliance testing:* Health Canada Product Safety Laboratory, Reference Manual Book 5 – Laboratory Policies and Procedures, Part B: Test Method Section, Method C-02.2.2: Determination of Total Lead in Surface Coating Materials in Consumer Products by Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES) (2020-01-23)

Bureau Veritas Hong Kong Limited - Kowloon Bay Office
立德國際公証香港有限公司 – 九龍灣辦事處

1/F., Pacific Trade Centre, 2 Kai Hing Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣啟興道 2 號太平洋貿易中心 1 樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Chemical tests (cont'd) :-	
All toys and children's products – surface coating material		Canada Consumer Product Safety Act (S.C. 2010, c.21), Toy Regulations SOR/2011-17, as amended by Regulations Amending Certain Regulations Made Under the Canada Consumer Product Safety Act (Surface Coating Materials) SOR/2022-122, Section 23
	- Total lead content	*Test procedures for compliance testing:* Health Canada Product Safety Laboratory, Reference Manual Book 5 – Laboratory Policies and Procedures, Part B: Test Method Section, Method C-02.2.2: Determination of Total Lead in Surface Coating Materials in Consumer Products by Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES) (2020-01-23)
	- Total mercury content	*Test procedures for compliance testing:* In-house method: SOP# CH-543C (ICP-MS)
	- Leachable arsenic, selenium, cadmium, antimony and barium	*Test procedures for compliance testing:* ASTM F963-23 Cl. 8.3.2 – 8.3.4 EN71-3:2019+A2:2024 ISO 8124-3:2020/Amd1:2023
All toys that is likely to be used by a child of less than three years of age – plastic materials	- Total lead content	Canada Consumer Product Safety Act (S.C. 2010, c.21), Toy Regulations SOR/2011-17, Section 27 (b) *Test procedures for compliance testing:* Health Canada Product Safety Laboratory, Reference Manual Book 5 – Laboratory Policies and Procedures, Part B: Test Method Section, Method C-02.3.2: Determination of Total Lead in Plastic Consumer Products by Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES) (2021-02-22)

Bureau Veritas Hong Kong Limited - Kowloon Bay Office
立德國際公証香港有限公司 – 九龍灣辦事處

1/F., Pacific Trade Centre, 2 Kai Hing Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣啟興道 2 號太平洋貿易中心 1 樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Chemical tests (cont'd) :-	
All toys and children's products – plastic materials		Canada Consumer Product Safety Act (S.C. 2010, c.21), Consumer Products Containing Lead Regulations SOR/2018-83, Section 2
	- Total lead content	*Test procedures for compliance testing:* Health Canada Product Safety Laboratory, Reference Manual Book 5 – Laboratory Policies and Procedures, Part B: Test Method Section, Method C-02.3.2: Determination of Total Lead in Plastic Consumer Products by Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES) (2021-02-22)
All toys and children's products – metallic materials		Canada Consumer Product Safety Act (S.C. 2010, c.21), Consumer Products Containing Lead Regulations SOR/2018-83, Section 2
	- Total lead content	*Test procedures for compliance testing:* CPSC Test Method: CPSC-CH-E1001-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Children's Metal Products (Including Children's Metal Jewelry), November 15, 2012 ***<Excluding the following >*** XRF spectrometry
Children's jewellery		Canada Consumer Product Safety Act (S.C. 2010, c.21), Children's Jewellery Regulations SOR/2018-82, Section 2
Children's jewellery - surface coating	- Total lead content	*Test procedures for compliance testing:* Health Canada Product Safety Laboratory, Reference Manual Book 5 – Laboratory Policies and Procedures, Part B: Test Method Section, Method C-02.2.2: Determination of Total Lead in Surface Coating Materials in Consumer Products by Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES) (2020-01-23)
Children's jewellery - plastic materials	- Total lead content	*Test procedures for compliance testing:* Health Canada Product Safety Laboratory, Reference Manual Book 5 – Laboratory Policies and Procedures, Part B: Test Method Section, Method C-02.3.2: Determination of Total Lead in Plastic Consumer Products by Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES) (2021-02-22)

Bureau Veritas Hong Kong Limited - Kowloon Bay Office
立德國際公証香港有限公司 – 九龍灣辦事處

1/F., Pacific Trade Centre, 2 Kai Hing Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣啟興道 2 號太平洋貿易中心 1 樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Chemical tests (cont'd) :-	
Children's jewellery		Canada Consumer Product Safety Act (S.C. 2010, c.21), Children's Jewellery Regulations SOR/2016-168, Section 2
Children's jewellery - metallic materials	- Total lead content	*Test procedures for compliance testing:* Health Canada Product Safety Laboratory, Book 5 – Laboratory Policies and Procedures Part B: Test Methods Section, Method C-02.4: Determination of Total Lead and Cadmium in Metallic Consumer Products (2013-05-01)

Bureau Veritas Hong Kong Limited - Kowloon Bay Office
立德國際公証香港有限公司 – 九龍灣辦事處

1/F., Pacific Trade Centre, 2 Kai Hing Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣啟興道 2 號太平洋貿易中心 1 樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests (cont'd) :-	Japan Toy Safety Standard ST2016 Third Edition (2019.12.3) Part 3 Japan Toy Safety Standard ST2016 Fourth Edition (2022.10.4) Part 3
All toys' materials	- Colouring matters	Cl. 1.1 *Test Procedures for Compliance testing*: Cl. 2.1
Toys that are made of materials which are mainly composed of polyethylene, polyvinyl chloride (excluding parts on which paint coating is applied)	- Consumption of potassium permanganate and residue on evaporation - Heavy metals - Arsenic - Cadmium (excluding materials mainly composed of polyethylene)	Cl. 1.2 *Test Procedures for Compliance testing*: Cl. 1.2.1 & Cl. 2.2 Cl. 1.2.1 & Cl. 2.3 Cl. 1.2.1 & Cl. 2.4 Cl. 1.2.1 & Cl. 2.5 Cl. 1.2.1 & Cl. 2.6
Decalcomania, folded paper and rubber-made toys (excluding rubber pacifiers)	- Heavy metals - Arsenic	Cl. 1.3 *Test Procedures for Compliance testing*: Cl. 1.3.1 & Cl. 2.4 Cl. 1.3.1 & Cl. 2.5
Vinyl chloride resin coating	- Consumption of potassium permanganate - Residue after evaporation	Cl. 1.4 *Test Procedures for Compliance testing*: Cl. 1.4.1 & Cl. 2.2 Cl. 1.4.1 & Cl. 2.3
The Paint coating applied to the body or the components of the toys (excluding the printing ink used for paper containers)	- Heavy metals: 8 elements (antimony, arsenic, barium, cadmium, chromium, lead, mercury and selenium)	Cl. 1.5 *Test Procedures for Compliance testing*: Cl. 1.5.1 & Cl. 2.7 (1) ①, (2) & (3)
Textile products used for toys	- Free formaldehyde	Cl. 1.6 *Test Procedures for Compliance testing*: Cl. 1.6 & Cl. 2.8 ***<Excluding the following>*** Confirmation test by HPLC

Bureau Veritas Hong Kong Limited - Kowloon Bay Office
立德國際公証香港有限公司 – 九龍灣辦事處

1/F., Pacific Trade Centre, 2 Kai Hing Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣啟興道 2 號太平洋貿易中心 1 樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests (cont'd) :-	
		Japan Toy Safety Standard ST2016 Third Edition (2019.12.3) Part 3 (cont'd) Japan Toy Safety Standard ST2016 Fourth Edition (2022.10.4) Part 3 (cont'd)
		Cl. 1.8 *Test Procedures for Compliance testing*:
Ink and the like used for the graphic instruments that are provided with the toys such as pencils, ball-point pens, markers, crayons, pastels, water colours, chalks, etc.	- Colouring matters - Heavy metals: 8 elements (antimony, arsenic, barium, cadmium, chromium, lead, mercury and selenium)	Cl. 1.8.1 & Cl. 2.1 Cl. 1.8.2 & Cl. 2.7 (1) ②, (2) & (3)
		Cl. 1.9 ***<Excluding the following>*** Cl. 1.9.3 *Test Procedures for Compliance testing*:
Plasticized material in toys (polyvinyl chloride, polyurethane and rubber)	- Bis (2-ethylhexyl) phthalate, - Di-isononyl phthalate - Di-n-octyl phthalate - Di-iso-decyl phthalate - Butyl benzyl phthalate - Dibutyl phthalate	Cl. 2.10 ***<Excluding the following>*** Characterization & content determination tests by GC-FID
		Cl. 1.10 *Test Procedures for Compliance testing*:
Rubber pacifiers	- Materials test: - Cadmium and lead - Elution test: - Phenol, Formaldehyde, Zinc, Heavy metals and Residue on evaporation	Cl. 2.11.1 Cl. 2.11.2
		Cl. 1.11 *Test Procedures for Compliance testing*:
Metals used for toy (neither painted nor covered)	- Lead	Cl. 2.12 & 2.7 (2) & (3)

Bureau Veritas Hong Kong Limited - Kowloon Bay Office
立德國際公証香港有限公司 – 九龍灣辦事處
1/F., Pacific Trade Centre, 2 Kai Hing Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣啟興道 2 號太平洋貿易中心 1 樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Chemical tests (cont'd) :-	Specifications and Standards for Foods, Food Additives, etc. under the Food Sanitation Act (ABSTRACTS) 2008, JETRO January 2009, Part V "TOYS" *Test procedures for compliance testing:-* Specifications, Standards and Testing Methods for Foodstuffs, Implements, Containers and Packaging, Toys, Detergents, JETRO January 2009 (Based on the tentative English translation published by JETRO)
Decals	- Heavy metals - Arsenic	Part III Section A Paragraph 1 *Test procedures for compliance testing:* Part II Section B Paragraph 4, 7
Origami paper	- Heavy metals - Arsenic	Part III Section A Paragraph 2 *Test procedures for compliance testing:* Part II Section B Paragraph 4, 7
Rubber pacifier	- Materials testing: - Cadmium and lead - Eluting testing: - Phenol, Formaldehyde, Zinc, Heavy metals and Evaporation of residue	Part III Section A Paragraph 3 *Test procedures for compliance testing:* Part II Section D Paragraph 3, Sub-paragraph 2
Coating film of toy	- Cadmium, lead and arsenic	Part III Section A Paragraph 4 *Test procedures for compliance testing:* Part II Section B Paragraph 9
Coating film coated by using Polyvinyl chloride	- Potassium permanganate consumption - Evaporation of residue	Part III Section A Paragraph 5 *Test procedures for compliance testing:* Part II Section B Paragraph 1, 5
Parts (excluding coating film) manufactured using materials mainly composed of polyvinyl chloride	- Potassium permanganate consumption - Heavy metals - Cadmium - Evaporation of residue - Arsenic	Part III Section A Paragraph 6 *Test procedures for compliance testing:* Part II Section B Paragraph 1, 4, 5, 7, 9

Bureau Veritas Hong Kong Limited - Kowloon Bay Office
立德國際公証香港有限公司 – 九龍灣辦事處
1/F., Pacific Trade Centre, 2 Kai Hing Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣啟興道 2 號太平洋貿易中心 1 樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Chemical tests (cont'd) :-	Specifications and Standards for Foods, Food Additives, etc. under the Food Sanitation Act (ABSTRACTS) 2008, JETRO January 2009, Part V "TOYS" (cont'd) *Test procedures for compliance testing:-* Specifications, Standards and Testing Methods for Foodstuffs, Implements, Containers and Packaging, Toys, Detergents, JETRO January 2009 (Based on the tentative English translation published by JETRO) (cont'd)
Parts (excluding coating film) manufactured using materials mainly composed of polyethylene	- Potassium permanganate consumption - Heavy metals - Evaporation of residue - Arsenic	Part III Section A Paragraph 9 *Test procedures for compliance testing:* Part II Section B Paragraph 1, 4, 5, 7
Metallic accessories and toys that might be swallowed by infants and small children	- Lead	Part III Section A Paragraph 10 *Test procedures for compliance testing:* Part II Section B Paragraph 9
Synthetic resin-based colouring agents used in the manufacture of toy	- Colouring agent	Part III Section B

Bureau Veritas Hong Kong Limited - Kowloon Bay Office
立德國際公証香港有限公司 – 九龍灣辦事處
1/F., Pacific Trade Centre, 2 Kai Hing Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣啟興道 2 號太平洋貿易中心 1 樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Chemical tests (cont'd) :-	Netherlands Law Gazette 1999 No. 149 (Chemical Substances Act) Regulation (EC) No 1907/2006 on REACH Annex XVII Item No 23 as amended by Commission Regulation (EC) No 835/2012 and Commission Regulation (EU) No 2016/217 United Kingdom Environmental Protection (Controls on Injurious Substances) (No.2) Regulations 1993 No. 1643 Swedish Ordinance SFS 1998: 944 for cadmium German Chemicals Prohibition Ordinance paragraph 18: Cadmium Switzerland Ordinance relating to Environmentally Hazardous Substances (Ordinance on Substances) of 9 June 1986 (updated Jan 1996) with Amd. of 11 Nov 1998, Annex 4.11 & 4.12
Surface coating, fabric, leather, metal, paint, paper, wood and coloured materials	- Cadmium content	*Test method for compliance testing for Cadmium content in other materials except plastics:-* In House Method SOP# CH-355C (ICP-AES)
Plastics	- Cadmium content	*Test methods for compliance testing for Cadmium content in plastics:-* BS EN 1122: 2001 method B (wet decomposition) EN 1122: 2001 method B (wet decomposition)
Product (intended to come into direct contact with skin)	-Nickel release	Regulation (EC) No 1907/2006 on REACH Annex XVII Item No 27 as amended by Commission Regulation (EC) No 552/2009 *Test methods for compliance testing for Nickel content:-* EN 1811: 2023 BS EN 1811: 2023

Bureau Veritas Hong Kong Limited - Kowloon Bay Office
立德國際公証香港有限公司 – 九龍灣辦事處

1/F., Pacific Trade Centre, 2 Kai Hing Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣啟興道 2 號太平洋貿易中心 1 樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Chemical tests (cont'd) :-	
Product made from leather and textile	- Amine (Azo colourants) : 4-aminodiphenyl Benzidine 4-chloro-o-toluidine 2-naphthylamine o-aminoazotoluene 5-nitro-o-toluidine 4-chloroanilane 4-methoxy-m-phenylenediamine 4,4'-diaminodiphenylmethane 3,3'-dichlorobenzidine 3,3'-dimethoxybenzidine 3,3'-dimethylbenzidine 4,4'-methylenedi-o- toluidine p-cresidine 4,4'-methylene-bis-(2-chloroaniline) 4,4'-oxydianiline 4,4'-thiodianiline o-toluidine 4-methyl-m-phenylenediamine 2,4,5-trimethylaniline 2-methoxyaniline	Regulation (EC) No. 1907/2006 on REACH Annex XVII Item No 43 as amended by Commission Regulation (EC) No. 552/2009 and Commission Regulation (EU) No. 2020/2096 *Test methods for compliance testing for leather products:* EN ISO 17234-1: 2015 *Test method for compliance testing for textile products* EN ISO 14362-1: 2017
	4-aminoazobenzene	*Test methods for compliance testing for leather products:* EN ISO 17234-2: 2011 *Test methods for compliance testing for textile products:* EN ISO 14362-3: 2017 Techniques used are GC-MSD and HPLC-DAD for all test methods listed above.
Textile material of toy	- Free formaldehyde content	ISO 14184-1: 2011

Bureau Veritas Hong Kong Limited - Kowloon Bay Office
立德國際公証香港有限公司 – 九龍灣辦事處
1/F., Pacific Trade Centre, 2 Kai Hing Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣啟興道 2 號太平洋貿易中心 1 樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Electrical tests :- 電性能測試	
Battery operated toy	- Battery operated toys safety tests	ASTM F963-17 Cl. 4.25 < ***Excluding the following*** > Cl. 4.25.10 ASTM F963-23 Cl. 4.25 < ***Excluding the following*** > Cl. 4.25.9
Electrically operated toy or other electrically operated article intended for use by children	- Requirements for electrically operated toys or other electrically operated articles	16 CFR 1505 <***Excluding the following***> 1505.4, 1505.6 – Performance, part (f) – hydrokinetic (toys having pressure relief valves and/or steam engines)
Electric toy	- Compliance inspection and safety tests	BS EN IEC 62115: 2020 + A11: 2020 EN IEC 62115: 2020 + A11: 2020 < ***Excluding the following*** > for the above two standards Cl. 11 (IP tests to EN 60529), 13.8, 13.10, 18 (burning tests to IEC 60695-11-10 and ISO 9772, glow-wire ignition temperature test to IEC 60695-2-13), 19.2, Annex C, Annex D (D2.4, D.2.5, D.2.6, D.2.7, D.2.8), Annex E and Annex J IEC 62115: 2017 < ***Excluding the following*** > Cl. 11 (IP tests to EN 60529), 13.8, 13.10, 18 (burning tests to IEC 60695-11-10 and ISO 9772, glow-wire ignition temperature test to IEC 60695-2-13), 19.2, Annex C, Annex D (D2.4, D.2.5, D.2.6, D.2.7, D.2.8), Annex E and Annex J

Bureau Veritas Hong Kong Limited - Kowloon Bay Office
立德國際公証香港有限公司 – 九龍灣辦事處

1/F., Pacific Trade Centre, 2 Kai Hing Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣啟興道 2 號太平洋貿易中心 1 樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Electrical tests :-	
Electric toy	- Compliance inspection and safety tests	IS 15644: 2006 + A1: 2014 < ***Excluding the following*** > Cl. 11.1 (IP tests to IEC 60529), 14.15, 19 (burning tests to IEC 60695-11-10 and ISO 9772, glow-wire ignition temperature test to IEC 60695-2-13), 20 (radiation tests for laser, radiation tests for LED with wavelength $\lambda < 400$ nm or $\lambda > 1000$ nm) and Annex C
Electric toy	Compliance inspection and safety tests	GB 6675.1-2014 Cl. 5.4 & 5.6.2, and GB 19865-2005 + Amendment 1 <***Excluding the following*** > Cl. 11.1 (IP tests to GB 4208-1993), 19 (burning tests to GB/T 5169.16 and ISO 9772, glow-wire ignition temperature test to GB/T 5169.13), 20 (radiation tests for laser, radiation tests for LED with wavelength $\lambda < 400$ nm or $\lambda > 1000$ nm) and Annex C
電玩具	安全測試	GB 6675.1-2014 Cl. 5.4 & 5.6.2,及 GB 19865-2005 + 第 1 號修改單 <***不包含***> Cl. 11.1 (根據 GB 4208-1993 的耐水測試) 19 (按 GB/T 5169.16 及 ISO 9772 進行的耐燃試驗, 按 GB/T 5169.13 進行的灼熱絲起燃性試驗) 20 (激光器和發出電磁輻射波長少於 400 nm 或大於 1000 nm 的發光二極管的輻射測試) 附錄 C

Bureau Veritas Hong Kong Limited - Kowloon Bay Office
立德國際公証香港有限公司 – 九龍灣辦事處

1/F., Pacific Trade Centre, 2 Kai Hing Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣啟興道 2 號太平洋貿易中心 1 樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Flammability tests :- 易燃性能測試	
Toy	- Safety requirements and test methods	16 CFR Part 1500.44 and 16 CFR Part 1610
	- Safety requirements and test methods	ASTM F963-17 Cl. 4.2 ASTM F963-23 Cl. 4.2
	- Safety requirements and test methods	BS EN 71-2: 2020 EN 71-2: 2020 < ***Excluding the following*** > for the above two standards viscosity test, tests for flammable gas, highly flammable liquid, extremely flammable liquid and flammable gel
	- Safety requirements and test methods	AS/NZS 8124.2: 2016 ISO 8124-2: 2014 IS 9873 (Part 2): 2017 < ***Excluding the following*** > for the above three standards viscosity test, tests for flammable gas, highly flammable liquid, extremely flammable liquid and flammable gel
	- Safety requirements and test methods	ISO 8124-2: 2023 < ***Excluding the following*** > viscosity test, tests for flammable gas, highly flammable liquid, extremely flammable liquid and flammable gel
	- Safety requirements and test methods	Japan Toy Safety Standard ST 2016 Fourth Edition (2022.10.14) Part 2 (based on English version provided by JTA in October 2022) < ***Excluding the following*** > viscosity test, tests for flammable gas, highly flammable liquid, extremely flammable liquid and flammable gel

Bureau Veritas Hong Kong Limited - Kowloon Bay Office
立德國際公証香港有限公司 – 九龍灣辦事處

1/F., Pacific Trade Centre, 2 Kai Hing Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣啟興道 2 號太平洋貿易中心 1 樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Flammability tests :- 易燃性能測試	
Toy	- Safety requirements and test methods	GB 6675.1-2014 Cl. 5.2.1 and GB 6675.3-2014 ***<Excluding the following >*** Viscosity test, tests for flammable gas, highly flammable liquid, flammable gel and highly flammable solid
玩具	- 安全規定及測試方法	GB 6675.1-2014 Cl. 5.2.1 及 GB 6675.3-2014 ***<不包含>*** 粘度測試、易燃氣體測試、 高度易燃液體測試、易燃凝膠體測試和 高度易燃固體測試
Dolls, plush toys and soft toy	- Safety requirements and test methods	Canada Toys Regulations SOR/2011-17 Section 32, 33 and 34

Bureau Veritas Hong Kong Limited - Kowloon Bay Office
立德國際公証香港有限公司 – 九龍灣辦事處

1/F., Pacific Trade Centre, 2 Kai Hing Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣啟興道 2 號太平洋貿易中心 1 樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Microbiological tests :-	
Process water used in the manufacturing and filling of toys		ASTM F963-17 cl. 4.3.6.1 ASTM F963-23 cl. 4.3.6.1 *Test methods for compliance testing:*
	- Heterotrophic plate count (35ºC)	APHA 24e 9215A&B
	- Total Coliform	APHA 24e 9222B (membrane filtration method)
Aqueous liquid	- Coliform count / *E. coli* count	US FDA Bacteriological Analytical Manual Online (BAM online), Ch. 4, October 2020 (3 tubes MPN Method followed by completed test for E. coli) US FDA Bacteriological Analytical Manual Online (BAM online), Ch. 4, October 2020 (10 tubes MPN Method followed by completed test for E. coli) DoE(1983) The Bacteriological Examination of Drinking Water Supplies, 1982 (Membrane Filtration Procedure: Sections 7.8, 7.9.4.1 and 7.9.4.2; Bacterial Confirmation: Section 7.9.4.3 and 7.9.4.4)
	- Total coliform count	APHA 24e 9222B (Membrane Filtration Method) The Microbiology of Drinking Water (2009) - Part 4A Method for the Examination of Water and Associated Materials, Environmental Agency, UK, < ***Excluding the following*** > Application of agar medium
	- Fecal coliform count	APHA 24e 9222B & G (Membrane Filtration Method)
	- *E. coli* count	APHA 24e 9222B & H (Membrane Filtration Method) APHA 24e 9222B & I (Membrane Filtration Method) The Microbiology of Drinking Water (2009) - Part 4A Method for the Examination of Water and Associated Materials, Environmental Agency, UK, < ***Excluding the following*** > Application of agar medium

Bureau Veritas Hong Kong Limited - Kowloon Bay Office
立德國際公証香港有限公司 – 九龍灣辦事處

1/F., Pacific Trade Centre, 2 Kai Hing Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣啟興道 2 號太平洋貿易中心 1 樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Microbiological tests :-	
Toy cosmetics, liquids, pastes, putties, gels and powders < ***Excluding the following*** > - avian feather products	Cleanliness of Materials	ASTM F963-17 Cl. 4.3.6.3 and 8.4.1
	Microbiological examination of non-sterile Products:	*Test procedures for compliance testing:*
	- Microbial enumeration test	USP-NF 2024, Issue 3, Chapter < 61 >
	- Test for specified microorganisms	USP-NF 2024, Issue 3, Chapter < 62 >
Toy cosmetics, liquids, pastes, putties, gels, and powders	Preservative Effectiveness	ASTM F963-17 Cl. 4.3.6.4 & 8.4.2 *Test procedures for compliance testing:*
	Antimicrobial effectiveness testing	USP-NF 2024, Issue 3, Chapter < 51 >
Toy cosmetics, liquids, pastes, putties, gels and powders < ***Excluding the following*** > - avian feather products	Cleanliness of Materials	ASTM F963-23 Cl. 4.3.6.3 and 8.4.1
	Microbiological examination of non-sterile Products:	*Test procedures for compliance testing:*
	- Microbial enumeration test	USP-NF 2024, Issue 3, Chapter < 61 >
	- Test for specified microorganisms	USP-NF 2024, Issue 3, Chapter < 62 >
Toy cosmetics, liquids, pastes, putties, gels, and powders	Preservative Effectiveness	ASTM F963-23 Cl. 4.3.6.4 & 8.4.2.2.2 & 8.4.2.3 *Test procedures for compliance testing:*
	Antimicrobial effectiveness testing	USP-NF 2024, Issue 3, Chapter < 51 >
Toy containing aqueous media		Co-ordination of the Notified Bodies NB-TOYS under the Safety of Toys Directive NB-TOYS/2021-053, FINAL EC-type approval protocol No. 2 Microbiological safety of toys containing aqueous media REV4 (January 2022)
	Microbiological examination of non-sterile products:	*Test methods for compliance testing:*
	- Microbial Enumeration Test	European Pharmacopoeia 11th edition (2023), Method 2.6.12
	- Test for specified microorganisms	European Pharmacopoeia 11th edition (2023), Method 2.6.13
	- Efficacy of antimicrobial preservation	European Pharmacopoeia 11th edition (2023), General texts 5.1.3

Bureau Veritas Hong Kong Limited - Kowloon Bay Office
立德國際公証香港有限公司 – 九龍灣辦事處

1/F., Pacific Trade Centre, 2 Kai Hing Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣啟興道 2 號太平洋貿易中心 1 樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Physical and mechanical tests :-	
Toy	- Safety requirements and test methods	ISO 8124-1: 2018 + Amd.1: 2020 + Amd.2: 2020 < ***Excluding the following*** > Cl. 4.8.2, 4.21, 4.22 and 4.23
Toy	- Safety requirements and test methods	AS/NZS ISO 8124.1: 2023 ISO 8124-1: 2022 < ***Excluding the following*** > for the above two standards Cl. 4.8.2, 4.21, 4.22 and 4.23
Toy	- Safety requirements and test methods	IS 9873 (Part 1): 2019 < ***Excluding the following*** > Cl. 4.8.2, 4.21, 4.22 and 4.23
Toy	- Safety Requirements and test methods	Japan Toy Safety Standard ST 2016 Fourth Edition (October 4, 2022) Part 1 (based on English version provided by JTA on December 3, 2019 and translation of revision notice on October 4, 2022) ***<Excluding the following>*** Cl. 4.15.4 and 4.19 (Inflatable vinyl toys intended to be used on the surface of water (Annex I))
Toy	- Safety requirements and test methods	BS EN 71-1: 2014 + A1: 2018 EN 71-1: 2014 + A1: 2018 < ***Excluding the following*** > for the above two standards Cl. 4.15.1.2 (Electrically or mechanically driven ride-on toys), 4.15.1.5, 4.15.1.8, 4.15.2, 4.18 (Test to EN 15649-3), 4.20 (Toys using headphones or earphones, voice toys) and 5.6

Bureau Veritas Hong Kong Limited - Kowloon Bay Office
立德國際公証香港有限公司 – 九龍灣辦事處

1/F., Pacific Trade Centre, 2 Kai Hing Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣啟興道 2 號太平洋貿易中心 1 樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Physical and mechanical tests :- 機械和物理性能測試	
Toy	- Safety requirements and test methods	GB 6675.1-2014 Cl. 5.1.1 to 5.1.10, 5.7 and GB 6675.2-2014 + Amendment 1 **<*Excluding the following*>** Cl. 4.20, 4.21 & 4.22
玩具	- 安全規定及測試方法	GB 6675.1-2014 Cl. 5.1.1 至 5.1.10, 5.7 及 GB 6675.2-2014 +第 1 號修改單 **<*不包含*>** Cl. 4.20, 4.21 & 4.22
	Instructions for use of toys	GB/T 5296.5-2006
	玩具使用說明	GB/T 5296.5-2006
Toy scooter 玩具滑板車	- Safety requirements and test methods	GB 6675.2-2014 and GB 6675.12-2014
	- 安全規定及測試方法	GB 6675.2-2014 and GB 6675.12-2014

Bureau Veritas Hong Kong Limited - Kowloon Bay Office
立德國際公証香港有限公司 – 九龍灣辦事處

1/F., Pacific Trade Centre, 2 Kai Hing Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣啟興道 2 號太平洋貿易中心 1 樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Physical and mechanical tests :-	
Toy	- Physical and mechanical tests - Safety requirements	ASTM F963-17 Cl. 4.1, 4.3.3.1, 4.3.7, 4.5 to 4.20, 4.20.2, 4.21 to 4.24, 4.26 to 4.28, 4.30 to 4.41 < ***Excluding the following*** > Cl. 4.1 (reprocessed materials test to 4.3.1) and 4.8.1
	- Labeling requirements	Section 5
	- Instructional literature	Section 6
	- Producer's markings	Section 7
	- Test methods	Section 8
	- Physical and mechanical tests - Safety requirements	ASTM F963-23 Cl. 4.1, 4.3.3.1, 4.3.7, 4.5 to 4.20, 4.20.2, 4.21 to 4.24, 4.26 to 4.28, 4.30 to 4.41 < ***Excluding the following*** > Cl. 4.1 (reprocessed materials test to 4.3.1) and 4.8.1
	- Labeling requirements	Section 5
	- Instructional literature	Section 6
	- Producer's markings	Section 7
	- Test methods	Section 8
Toy	- Safety requirements and test methods	Federal Hazardous Substances Act Regulations 16 CFR 1500.48 16 CFR 1500.49 16 CFR 1500.50 16 CFR 1500.51 16 CFR 1500.52 16 CFR 1500.53 16 CFR 1501 16 CFR 1510

Bureau Veritas Hong Kong Limited - Kowloon Bay Office
立德國際公証香港有限公司 – 九龍灣辦事處
1/F., Pacific Trade Centre, 2 Kai Hing Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣啟興道 2 號太平洋貿易中心 1 樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Physical and mechanical tests :-	
Balls intended for use by children under 3 years of age	- Identification of mechanical hazard of small balls	16 CFR Part 1500.18(a)(17)
Dive Sticks	- Method for determining the angle of a dive stick from vertical when it comes to rest underwater	16 CFR Part 1500.86(a)(7)
	- Method for determining the maximum vertical compressive force of a dive stick	16 CFR Part 1500.86(a)(8)
Marbles, small balls, balloons and other small parts intended for use by children above 3 years of age	- Determination of misbranded toys	16 CFR Part 1500.19
Pacifiers	- Requirement for pacifiers	16 CFR Part 1511

Bureau Veritas Hong Kong Limited - Kowloon Bay Office
立德國際公証香港有限公司 – 九龍灣辦事處

1/F., Pacific Trade Centre, 2 Kai Hing Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣啟興道 2 號太平洋貿易中心 1 樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Physical and mechanical tests :-	
Toy	- Safety requirements and test methods	Canada Toys Regulations SOR/2011-17 (last amended on 19 December 2022) Section 3, 4, 7 to 19, 28 to 31, 37, 40, 41, 43 and 44 < ***Excluding the following*** > 29(c) and 29(d) Health Canada Product Safety Reference Manual Book 5 – Laboratory Policies and Procedures Part B: Test Method Section Method M00.1 (2023-06-05) Method M00.2 (2023-06-05) Method M00.3 (2023-06-05) Method M00.4 (2020-05-06) Method M01.1 (2019-02-18) Method M03 (2022-03-16) Method M04 (2022-07-04) ***<Excluding the following>*** B.9A group including toy masks, hats and other head wearables (excluding over the ear and in the ear sound sources) Method M05 (2023-02-16) Method M18 (2021-02-04) (Note: The above test methods should be used in conjunction with the relevant sections of Canada Toys Regulations (SOR/2011-17))
Writing and marking instruments likely to be used by children up to the age of 14		
- Safety caps	- Assessment of the risk of asphyxiation	BS 7272-1: 2008
- End closures	- Assessment of the risk of asphyxiation	BS 7272-2: 2008 +A1: 2014

Bureau Veritas Hong Kong Limited - Kowloon Bay Office
立德國際公証香港有限公司 – 九龍灣辦事處

Room 2106-2107, 21/F, Westin Centre, 26 Hung To Road, Kwun Tong, Kowloon, Hong Kong.
香港九龍觀塘鴻圖道 26 號威登中心 21 樓 2106-2107 室

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	EMC tests :- Emission tests	
Battery toy	- Measurement of radiated disturbance (at Hong Kong Productivity Council EMC Centre) - 9 kHz to 1 GHz	CISPR 14-1: 2016 EN 55014-1: 2017
	- Measurement of radiated disturbance (at Hong Kong Productivity Council EMC Centre) - 9 kHz to 6 GHz	CISPR 14-1: 2020 EN IEC 55014-1: 2021
Multimedia plug-in module having a USB port only	- Measurement of radiated emission (at Hong Kong Productivity Council EMC Centre) - 30MHz to 6 GHz	CISPR 32: 2015 + A1: 2019 EN55032: 2015 ***<Excluding the following>*** for the above two standards Cl. A.3
Battery operated electrical and electronic apparatus intended for use in residential, commercial or light-industrial environment for which no dedicated product or product-family emission standard exists and without power supply, telecommunications and network port	- Measurement of radiated disturbance (at Hong Kong Productivity Council EMC Centre) - 30 MHz to 1 GHz	EN 61000-6-3: 2007 +A1: 2011 AS/NZS 61000.6.3: 2007 AS/NZS 61000.6.3: 2012
	- Measurement of radiated disturbance (at Hong Kong Productivity Council EMC Centre) - 30 MHz to 6 GHz	BS EN IEC 61000-6-3: 2021 AS/NZS 61000.6.3: 2021

Bureau Veritas Hong Kong Limited - Kowloon Bay Office
立德國際公証香港有限公司 – 九龍灣辦事處

Room 2106-2107, 21/F, Westin Centre, 26 Hung To Road, Kwun Tong, Kowloon, Hong Kong.
香港九龍觀塘鴻圖道 26 號威登中心 21 樓 2106-2107 室

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	EMC tests:- (cont'd) Immunity tests	
Battery toy	- Electrostatic discharge - Radio frequency electromagnetic field	CISPR 14-2: 2015 CISPR 14-2: 2020 EN 55014-2: 2015 BS EN IEC 55014-2: 2021
Battery operated lighting equipment and luminaire without power supply, signal and control port	- Electrostatic discharge - Radio frequency electromagnetic field	EN 61547: 2009 **<*Excluding the following*>** Cl. 6.3.4 (luminaire for emergency lighting)
Battery operated electrical and electronic apparatus intended for use in residential, commercial or light-industrial environment for which no dedicated product or product-family immunity standard exists and without power supply and signal port	- Electrostatic discharge - Radio frequency electromagnetic field	EN 61000-6-1: 2007 IEC 61000-6-1: 2005 EN IEC 61000-6-1: 2019
Electrical and electronic equipment	- Electrostatic discharge - 8/15 kV air discharge - 4/8 kV contact discharge	EN 61000-4-2: 2009 IEC 61000-4-2: 2008
Electrical and electronic equipment	- Radiated, radio frequency electromagnetic fields - 80 MHz to 1GHz, 3 V/m - 80 MHz to 1GHz, 10 V/m - 1 GHz to 6 GHz, 3 V/m	EN 61000-4-3: 2006 + A2: 2010 EN IEC 61000-4-3: 2020 IEC 61000-4-3: 2006 + A1: 2007 + A2: 2010 IEC 61000-4-3: 2020

Hong Kong Productivity Council – Smart Manufacturing Division, Materials Testing Laboratory
香港生產力促進局 - 智能製造部，材料測試實驗室

ADDRESS : 5/F., HKPC Building, 78 Tat Chee Avenue, Yau Yat Chuen, Kowloon, Hong Kong
地址 香港九龍又一村達之路78號生產力大樓5樓

ENQUIRY : Ms TONG Shuk-fung, Senior Consultant
查詢 湯淑楓女士，高級顧問

TELEPHONE : 2788 6325
電話

FAX : 2788 5522
傳真

E-MAIL : fungtong@hkpc.org
電郵

WEBSITE ADDRESS : www.hkpc.org
網址

CLIENTELE : Public
服務對象 公眾

Hong Kong Productivity Council – Smart Manufacturing Division, Materials Testing Laboratory
香港生產力促進局 – 智能製造部，材料測試實驗室

ADDRESS **地址**	:	5/F., HKPC Building, 78 Tat Chee Avenue, Yau Yat Chuen, Kowloon, Hong Kong 香港九龍又一村達之路 78 號生產力大樓 5 樓
ACCREDITED TEST CATEGORY **認可測試類別**	:	Chemical Testing 化學測試 Physical and Mechanical Testing 物理及機械測試

Hong Kong Productivity Council – Smart Manufacturing Division, Materials Testing Laboratory
香港生產力促進局 – 智能製造部，材料測試實驗室
5/F., HKPC Building, 78 Tat Chee Avenue, Yau Yat Chuen, Kowloon, Hong Kong
香港九龍又一村達之路 78 號生產力大樓 5 樓

Chemical Testing 化學測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Gold and gold alloys	Fineness	ISO 11426: 2014 ***<Excluding the following>*** Cl. 7.3.3
Silver and silver alloys	Fineness	ISO 11427: 2014

Hong Kong Productivity Council – Smart Manufacturing Division, Materials Testing Laboratory
香港生產力促進局 – 智能製造部，材料測試實驗室
5/F., HKPC Building, 78 Tat Chee Avenue, Yau Yat Chuen, Kowloon, Hong Kong
香港九龍又一村達之路 78 號生產力大樓 5 樓

Physical and Mechanical Testing 物理及機械測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Metal finished product	Measurement of the local thickness of metal and oxide coatings by microscopical examination of cross sections	ASTM B487-20
Water-resistant watch	Performance tests	ISO 22810: 2010 ***<Excluding the following >*** Cl. 4.3.2 (for overpressure over 20 bar) and 4.4

Environmental Protection Department - Air Services Laboratory
環境保護署 - 空氣質素技術支援實驗室

ADDRESS : 47/F, Revenue Tower, 5 Gloucester Road, Wan Chai, Hong Kong
地址 香港灣仔告士打道五號稅務大樓四十七樓

ENQUIRY : Mr TSUI Ka-chun, Jason
查詢 Assistant Environmental Protection Officer
徐嘉俊先生，助理環境保護主任

TELEPHONE : 2594 6461
電話

FAX : 2827 8040
傳真

E-MAIL : jasonkctsui@epd.gov.hk
電郵

WEBSITE ADDRESS : https://www.epd.gov.hk
網址

CLIENTELE : Government departments, normally not available for public testing
服務對象 通常只服務政府部門

Environmental Protection Department - Air Services Laboratory
環境保護署 – 空氣質素技術支援實驗室

ADDRESS **地址**	:	47/F, Revenue Tower, 5 Gloucester Road, Wan Chai, Hong Kong 香港灣仔告士打道五號稅務大樓四十七樓
ACCREDITED TEST CATEGORY **認可測試類別**	:	Environmental Testing 環境測試

Environmental Protection Department - Air Services Laboratory
環境保護署 – 空氣質素技術支援實驗室
47/F, Revenue Tower, 5 Gloucester Road, Wan Chai, Hong Kong
香港灣仔告士打道五號稅務大樓四十七樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Air Quality Monitoring	On-site testing :	
	- Sulphur dioxide (SO_2) concentration	In-house Method Chapter 2.7 "QC Manual on Field Operation of Gaseous Analyzers" (UV fluorescence analyzer)
	- Nitrogen dioxide (NO_2) concentration	In-house Method Chapter 2.7 "QC Manual on Field Operation of Gaseous Analyzers" (chemiluminescence analyzer)
	- Ozone (O_3) concentration	In-house Method Chapter 2.7 "QC Manual on Field Operation of Gaseous Analyzers" (UV absorption analyzer)
	- Carbon monoxide (CO) concentration	In-house Method Chapter 2.7 "QC Manual on Field Operation of Gaseous Analyzers" (GFC non-dispersive infrared analyzer)
	- Respirable suspended particulates (RSP)	In-house Method Chapter 2.15 "QC Manual on Field Operation of Particulate Monitor" (Tapered Element Oscillating Microbalance (TEOM) Instrument)
	- Fine suspended particulates (FSP)	In-house Method Chapter 2.15 "QC Manual on Field Operation of Particulate Monitor" (Tapered Element Oscillating Microbalance (TEOM) Instrument)
	Air sampling :	
	- Respirable suspended particulates (RSP)	In-house Method Chapter 2.5 "QC Manual on Field Operation of RSP (PM10) High Volume Samplers" (High Volume Air Sampler)
	Gravimetric analysis :	
	- Respirable suspended particulates (RSP)	In-house Method Chapter 2.6 "Guidelines for handling of 8"x10" filters in high volume RSP sampling (PM10)" (High Volume Air Sampler)

ALS Technichem (HK) Pty Limited

ADDRESS : 11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung,
New Territories, Hong Kong
地址 香港葵涌永業街1-3號忠信針織中心11樓

ENQUIRY : Mr Richard FUNG Lim-chee, General Manager – Greater China and Hong Kong
查詢 馮念慈先生

TELEPHONE : 2610 1044
電話

FAX : 2610 2021
傳真

E-MAIL : Hongkong@alsglobal.com
電郵

CLIENTELE : Public
服務對象 公眾

ALS Technichem (HK) Pty Limited

ADDRESS **地址**	:	11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong 香港新界葵涌永業街 1-3 號忠信針織中心 11 樓
ACCREDITED TEST CATEGORY **認可測試類別**	:	Chemical Testing 化學測試 Chinese Medicine 中藥 Environmental Testing 環境測試 Food 食品 Pharmaceutical Products 藥物

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Chemical Testing 化學測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Sodium hypochlorite	Effective Chlorine Content	GB 19106 -2013 cl. 5.3
Sodium hydroxide	Sodium hydroxide content Sodium carbonate content	GB/T 4348.1-2013 GB/T 4348.1-2013

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Chinese Medicine 中藥		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Proprietary Chinese Medicines and Chinese Herbal Medicines	Toxic elements:-	
	Digestion procedure	In House Method E-3051A (microwave) In House Method E-Biota (microwave)
	Mercury	In House Methods EG036 (Cold vapour)
	Arsenic, Antimony, Cadmium, Chromium , Copper, Tin, Lead	In House Method EG020 (ICP-MS)
	Pesticide residues:-	
	- Organochlorine pesticides Aldrin, Dieldrin, Endrin, cis-Chlordane, trans-Chlordane, Oxychlordane, Heptachlor, Heptachlor epoxide, Hexachlorocyclohexane isomers (alpha-, beta-, and delta-BHC), Lindane, Hexachlorobenzene, Methyl pentachlorophenyl sulphide, Pentachloroaniline, Quintozene (pentachloronitrobenzene), 2,4'-DDT, 4,4'-DDT, 4,4'DDE, 4,4'-DDD, Endosulfan I, Endosulfan II, Endosulfan sulphate	In-house Method EP110 (GC/Dual-uECD)
	- Aldrin and Dieldrin (sum of Aldrin and Dieldrin)	In-house method EP110 (By calculation)
	- Chlordane (sum of cis-Chlordane, trans-Chlordane and oxychlordane)	In-house method EP110 (By calculation)
	- DDT (sum of 2,4'-DDT, 4,4'-DDT, 4,4'-DDE and 4,4'-DDD)	In-house method EP110 (By calculation)
	- Heptachlor (sum of Heptachlor and Heptachlor epoxide)	In-house method EP110 (By calculation)
	- Hexachlorocyclohexane (as sum of alpha-,beta- & delta-hexachlorocyclohexanes)	In-house method EP110 (By calculation)
	- Qunitozene (as sum of quintozene, pentachloroaniline & methyl pentachlorophenyl sulphide)	In-house method EP110 (By calculation)

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Chinese Medicine 中藥		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Chemical and physicochemical tests:	
Chinese Materia Medica	- 二氧化硫 Sulphur dioxide	中華人民共和國藥典 2015 年版四部 2331 段，第一法（酸鹼滴定法）(FD044) Pharmacopoeia of the People's Republic of China 2015, Volume IV, 2331, Method 1 (Acid-base titrimetric method) (FD044)
	- 二氧化硫 Sulphur dioxide	中華人民共和國藥典 2020 年版四部 2331 段，第一法（酸鹼滴定法）(FD044) Pharmacopoeia of the People's Republic of China 2020, Volume IV, 2331, Method 1 (Acid-base titrimetric method) (FD044)
Chinese Herbal Medicines (CHM), including Semen Arecae, Semen Cassiae, Hirudo, Semen Myristicae, Bombyx Batryticatus, Semen Persicae, Semen Platycladi, Radix Polygalae, Fructus Quisqualis, Scolopendra, Semen Sterculiae Lychnophorae, Rhizoma Corydalis, Scorpio, Eupolyphaga seu Steleophaga, Aspongopus, Nidus Vespae **<*Excluding the following*>** CHM of mineral origin	Mycotoxins: - - Aflatoxins B_1, B_2, G_1, G_2 - Sum of aflatoxins B_1, B_2, G_1 and G_2	In-house Method FP-326 (quantitative by UPLC-MS/MS)
中藥材 (CHM)，包括 檳榔，決明子，水蛭，肉豆蔻，僵蠶，桃仁，柏子仁，遠志，使君子，蜈蚣，胖大海，延胡索，全蠍，土鱉蟲，九香蟲，蜂房 **<不包括>** 源於礦物的藥材	霉菌毒素: - - 黃曲霉毒素 B_1, B_2, G_1, G_2 - 總黃曲霉毒素 B_1, B_2, G_1 和 G_2	In-house Method FP-326 (quantitative by UPLC-MS/MS)
	Trace elements: -	
Decoction of Chinese Herb Medicines (dCHM)	- Arsenic, Cadmium, Copper. Lead and Mercury	In house method EG054 (ICP-MS)

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Chinese Medicine 中藥		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Chinese Herbal Medicine (CHM) excluding CHM of animal and mineral origin	Pesticide residues:- - Organophosphorus Pesticides Methamidophos, Parathion-methyl, Parathion, Monocrotophos, Phosphamidon, Fenamiphos, Fenamiphos sulphoxide, Fenamiphos sulphone, Fonofos, Cadusafos, Coumaphos, Sulfotep, Terbufos, Terbufos sulphoxide, Terbufos sulphone, Phorate, Phorate sulphoxide, Phorate sulphone, Isofenphos-methyl, O-Demeton, S-Demeton, Ethoprophos, Isazofos, Isocarbophos, Phosfolan, Phosfolan-methyl, - Organochlorine Pesticides α- hexachlorocyclohexane, β-hexachlorocyclohexane, γ-hexachlorocyclohexane, δ-hexachlorocyclohexane, p,p'-DDT, o,p'-DDT, p,p'-DDE, p,p'-TDE, Chlordimeform, Nitrofen, Aldrin, Dieldrin, α-Endosulfan, β-Endosulfan, Endosulfan sulphate, Fipronil, Fipronil desulfinyl, Fipronil sulfoxide, Fipronil sulfone, o,p'-dicofol, p,p'-dicofol, Chlorsulfuron - Carbamate Carbofuran, Carbofuran-3-hydroxy, Aldicarb, Aldicarb sulphoxide, Aldicarb sulphone - Others Ethametsulfuron-methyl, Metsulfuron-methyl	In House method EP397 (by GC-MS/MS & LC-MS/MS)

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Chinese Medicine 中藥		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Chinese Herbal Medicine (CHM) excluding CHM of animal and mineral origin	- Organophosphorus Pesticides Fenamiphos (sum of Fenamiphos, Fenamiphos sulphoxide, and Fenamiphos sulphone, expressed as Fenamiphos)	In-house method EP397 (By calculation)
	Terbufos (sum of Terbufos, Terbufos sulphoxide, and Terbufos sulphone, expressed as Terbufos)	In-house method EP397 (By calculation)
	Phorate (sum of Phorate, Phorate sulphoxide, and Phorate sulphone, expressed as Phorate)	In-house method EP397 (By calculation)
	Demeton (sum of O-Demeton and S-Demeton, expressed as Demeton)	In-house method EP397 (By calculation)
	- Organochlorine Pesticides Hexachlorocyclohexane (sum of α-hexachlorocyclohexane, β-hexachlorocyclohexane, γ-hexachlorocyclohexane and δ-hexachlorocyclohexane, expressed as Hexachlorocyclohexane)	In-house method EP397 (By calculation)
	DDT (sum of p,p'-DDT, o,p'-DDT, p,p'-DDE and p,p'-TDE, expressed as DDT)	In-house method EP397 (By calculation)
	Endosulfan (sum of α-Endosulfan, β-Endosulfan,and Endosulfan sulphate, expressed as Endosulfan)	In-house method EP397 (By calculation)
	Fipronil (sum of Fipronil, Fipronil desulfinyl, Fipronil sulfoxide, and Fipronil sulfone, expressed as Fipronil)	In-house method EP397 (By calculation)
	Dicofol (sum of o,p'-dicofol and p,p'-dicofol, expressed as Dicofol)	In-house method EP397 (By calculation)
	- Carbamate Carbofuran (sum of Carbofuran and Carbofuran-3-hydroxy, expressed as Carbofuran)	In-house method EP397 (By calculation)
	Aldicarb (sum of Aldicarb, Aldicarb sulphoxide, and Aldicarb sulphone, expressed as Aldicarb)	In-house method EP397 (By calculation)

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Chinese Medicine 中藥		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Chinese Medicated Oil	Pesticide residues:-	
	- Organochlorine pesticides Aldrin, Dieldrin, Endrin, cis-Chlordane, trans-Chlordane, Oxychlordane p,p'-DDT, o,p'-DDT, p,p'-DDE, p,p'-TDE, Heptachlor, Heptachlor epoxide, Hexachlorobenzene, alpha-BHC, beta-BHC, delta-BHC, Lindane (gama-BHC), Methyl pentachlorophenyl sulphide, Pentachloroaniline, Quintozene (pentachloronitrobenzene), α-Endosulfan, β-Endosulfan, Endosulfan sulphate	In-house Method EP111 (GC-MS/MS)
	- Organochlorine pesticides Aldrin and Dieldrin (Sum of Aldrin and Dieldrin)	In-house method EP111 (By calculation)
	Chlordane (sum of cis-Chlordane, trans-Chlordane, and Oxychlordane)	In-house method EP111 (By calculation)
	DDT (sum of p,p'-DDT, o,p'-DDT, p,p'-DDE, and p,p'-TDE)	In-house method EP111 (By calculation)
	Heptachlor (sum of heptachlor and heptachlor epoxide)	In-house method EP111 (By calculation)
	BHC isomers (sum of alpha-BHC, beta-BHC, and delta-BHC)	In-house method EP111 (By calculation)
	Quintozene (sum of quintozene, pentachloroaniline, and methyl pentachlorophenyl sulphide)	In-house method EP111 (By calculation)

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Chinese Medicine 中藥		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Proprietary Chinese Medicines and Chinese Herbal Medicines	Microbiological examination:-	
	微生物限度檢查法 Microbial Limit Test - 細菌數 Aerobic bacteria count - 霉菌與酵母菌數 Mould and yeast count - 大腸埃希菌 *E. coli* - 銅綠假單胞菌 *Pseudomonas aeruginosa* - 金黃色葡萄球菌 *Staphylococcus aureus* - 沙門菌 *Salmonella* species	中華人民共和國藥典2000年版一部附錄XIIIC Pharmacopoeia of the People's Republic of China 2000, Volume I, App. XIIIC
	- 微生物限度檢查法 Microbial Limit Test 細菌數 Aerobic bacteria count 黴菌與酵母菌數 Mold and Yeast count 大腸埃希菌 *E. coli* 沙門菌 *Salmonella* 大腸菌群 Coliform	中華人民共和國藥典2010年版一部附錄XIIIC Pharmacopoeia of the People's Republic of China 2010, Volume I, App. XIII C (Chinese Edition)
	- Microbial Enumeration Tests and Tests for Specified Microorganisms 微生物計數法及控制菌檢查法	中華人民共和國藥典 2015 年版四部 1105 & 1106 段，非無菌產品微生物限度檢查: 微生物計數法及控制菌檢查法
	需氧菌總數Total Aerobic Microbial Count 霉菌和酵母菌總數 Total Combined Yeast and Mold Count 大腸埃希菌 *E. coli* 白色念珠菌 *Candida albicans* 梭菌 *Clostridium* 金黃色葡萄球菌 *Staphylococcus aureus* 沙門菌 *Salmonella* 耐膽鹽革蘭陰性菌 Bile-tolerant Gram negative bacteria 銅綠假單胞菌 *Pseudomonas aeruginosa*	Pharmacopoeia of the People's Republic of China 2015, Volume IV, 1105 & 1106

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Chinese Medicine 中藥		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Microbiological examination:-	
Proprietary Chinese Medicines and Chinese Herbal Medicines	- Microbial Enumeration Tests and Tests for Specified Microorganisms 微生物計數法及控制菌檢查法	中華人民共和國藥典 2020 年版四部 1105 & 1106 段, 非無菌產品微生物限度檢查: 微生物計數法及控制菌檢查法
	需氧菌總數Total Aerobic Microbial Count 霉菌和酵母菌總數 Total Combined Yeast and Mold Count 大腸埃希菌 *E. coli* 白色念珠菌 *Candida albicans* 梭菌 *Clostridium* 金黃色葡萄球菌 *Staphylococcus aureus* 沙門菌 *Salmonella* 耐膽鹽革蘭陰性菌 Bile-tolerant Gram negative bacteria 銅綠假單胞菌 *Pseudomonas aeruginosa*	Pharmacopoeia of the People's Republic of China 2020, Volume IV, 1105 & 1106
Chinese Materia Medica and prepared pieces of Chinese Materia Medica (Decotion of Chinese Medicine)	- Microbial Enumeration Tests and Tests for Specified Microorganisms 微生物計數法及控制菌檢查法	中華人民共和國藥典 2020 年版四部 1108 段 微生物計數法及控制菌檢查法
	需氧菌總數Total Aerobic Microbial Count 霉菌和酵母菌總數 Total Combined Yeast and Mold Count 耐熱菌總數 Total Thermal-tolerant Microbial Count 大腸埃希菌 *E. coli* 耐膽鹽革蘭陰性菌 Bile-tolerant Gram negative bacteria 沙門菌 *Salmonella*	Pharmacopoeia of the People's Republic of China 2020, Volume IV, 1108

ALS Technichem (HK) Pty Limited
11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Physical examination -	
Gas samples from ambient air, process emissions and surface emissions	Odour concentration measurement	BS EN 13725:2022 EN 13725:2022 (By dynamic olfactometry) **< *Excluding the following* >** for the above two standards Section 5.2, 8, 9.1 – 9.3
Ambient air	Volatile Organic Compounds: - Freon 12 (dichlorodifluoromethane) Chloromethane (Methyl chloride) Freon 114 (1,2-dichloro-1,1,2,2-tetrafluoroethane) Chloroethene (Vinyl chloride) Bromomethane Chloroethane Freon 11 (Trichlorofluoromethane) 1,1-Dichloroethene Dichloromethane (Methylene chloride) Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane) 1,1-Dichloroethane cis-1,2-dichloroethene Chloroform 1,2-Dichloroethane 1,1,1-Trichloroethane Benzene Carbon tetrachloride 1,2-Dichloropropane Trichloroethylene cis-1,3-dichloropropene trans-1,3-dichloropropene 1,1,2-trichloroethane Toluene 1,2-dibromoethane Tetrachloroethylene Chlorobenzene Ethylbenene m-/p-xylene Styrene	In House Method AP074 (GC/MSD)

ALS Technichem (HK) Pty Limited
11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Ambient air (cont'd)	Volatile Organic Compounds: - (cont'd)	In House Method AP074 (GC/MSD) (cont'd)
	1,1,2,2-Tetrachloroethane o-xylene 1,3,5-trimethylbenzene 1,2,4-trimethylbenzene m-dichlorobenzene (1,3-dichlorobenzene) p-dichlorobenzene (1,4-dichlorobenzene) o-dichlorobenzene (1,2-dichlorobenzene) 1,2,4-trichlorobenzene Hexachloro-1,3-butadiene	
	Xylene – Total (sum of o-/m-/p-xylene)	In House Method AP074 (By calculation)
Ambient air (Extractable components collected onto sorbent tubes)	Volatile Organic Compounds: -	
	Isopropyl alcohol 1,1-Dichloroethylene Acrylonitrile Methylene chloride Carbon disulfide Methyl tert-butyl ether Vinyl acetate n-Hexane Chloroform 1,1,1-Trichloroethane Benzene Carbon tetrachloride Trichloroethylene Toluene Tetrachloroethylene Chlorobenzene Ethylbenzene m-/p-Xylene Styrene o-Xylene Phenol 1,4-Dichlorobenzene Naphthalene	In-house method AP077 (TD-GC/MS)
	Xylenes (Total)	In-house method AP077 (by calculation)

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Ambient air (Extractable components collected onto adsorbent cartridges)	- Acetaldehyde - Formaldehyde	USPEA TO-11A (January 1999) (AP010-ACT) <***Excluding air sampling***>
Indoor Air Quality Testing	Extractable components collected in passive samplers: -	
	- Acetaldehyde	In-house method AP010 (By HPLC)
	- Formaldehyde	In-house method AP010 (By HPLC)
	- Nitrogen dioxide	In-house method AK057/EK057K (Discrete analyzer)
	Microbiological examinations: -	
Collectate sampled by Microbio Air Sampler MB2	- Airborne bacteria count (number of colonies & corrected of colonies on agar plate) (30℃ for 2 days)	In house method AM401
Collectate samples on agar plate	- Airborne bacteria count (number of colonies on agar plate) (30℃ for 2 days)	In house method AM401
Collectate samples on agar strip	- Airborne bacteria count (number of colonies on agar strip) (30℃ for 2 days)	In house method AM401
Collectate sampled by Microbio Air Sampler MB2	- Airborne fungi count (number of colonies & corrected number of colonies on agar plate) (25℃ for 5 days)	In house method AM405
Collectate samples on agar plate	- Airborne fungi count (number of colonies on agar plate) (25℃ for 5 days)	In house method AM405

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Stationary Source Emission	Air Quality Checking :-	40 CFR Part 60
	- Selection of sampling points and velocity traverse points	Appendix A-1 Test method 1, 1 July 2018 ***<Excluding the following>*** Cl. 11.5
	- Determination of the average stack gas velocity and the volumetric flow rate (by Type S Pitot Tube)	Appendix A-1 Test method 2, 1 July 2018
	- Determination of the dry molecular weight of stack gas (by Orsat analyzer)	Appendix A-2 Test method 3, 1 July 2018
	- Determination of the moisture content of stack gas	Appendix A-3 Test method 4, 1 July 2018 ***<Excluding the following>*** Cl. 8.2, 11.2, 12.2
	- Determination of particulate matter emissions	Appendix A-3 Test method 5, 1 July 2018
	- Determination of hydrogen halides and halogens emissions (isokinetic method)	Appendix A-8 Test method 26A, 1 July 2018, (excluding Cl. 10.2, 11.1) in conjunction with In-house method ED009 (Ion Chromatography) for determination of halide ions in acidic and alkaline absorbing solutions
	- Determination of mercury emissions	Appendix A-8 Test method 29, 1 July 2018

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Stationary Source Emission	Air Quality Checking :-	
	- Sampling of emission from waste gas ducts for subsequent measurements	BS EN 15259:2007
	- Determination of the axial velocity and volume flow rate of gas within emissions ducts and stacks (by Type S Pitot Tube)	ISO 16911-1:2013
	- Isokinetic sampling of stack gas	BS EN 13284:2017 <Excluding the following> Cl. 7.3, 7.4, 8, 9, 10.2 and 11
	- Determination of the water vapour content using standard reference method	BS EN 14790:2017
	- Determination of the total emission of Sb, As, Cd, Cr, Co, Cu, Pb, Mn, Ni, TI and V	BS EN 14385:2004
	- Determination of the concentration of total mercury using manual method	BS EN 13211:2001

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Physical Examination :-	
Water and Wastewater	- Conductivity	APHA 23e 2510 (EA010)
	- pH Value	APHA 23e 4500-H^+ B (EA002)
	- Solids-Total	In-house Method EA030 (Gravimetric)
	- Solids-Total Suspended	APHA 23e 2540D (EA025B) In-house Method EA025 (Gravimetric)
	- Solids-Total Dissolved	In-house Method EA015 (Gravimetric)
	- Solids-Fixed and Volatile	In-house Method EA035 (Gravimetric)
	- Settleable solids	APHA 23e 2540F (EA034B)
	- Volatile and Fixed Suspended Solids	APHA 23e 2540E (EA035A)
	- Turbidity	APHA 23e 2130 (EA045)
	- Hardness	APHA 22e 2340B (By calculation) (EA065)
Drinking Water	- Colour	ISO 7887:1994 Section 4 (EA041)
Water and Wastewater	- Acidity	APHA 23e 2310 A & B (ED038)
	- Alkalinity-Total	APHA 23e 2320 A & B (ED037)
	- Alkalinity-Bicarbonate	APHA 23e 2320 A & B (ED035)
	- Alkalinity-Carbonate	APHA 23e 2320 A & B (ED030)
	- Alkalinity-Hydroxide	APHA 23e 2320 A & B (ED025)
	Non-metallic Constituents :-	
	- Bromide	In-house method ED009 (Ion Chromatography)
	- Bromate	In-house method ED013 (Ion Chromatography)
	- Carbon-Total Inorganic	In-house Method EP006 (NDIR)
	- Chlorine-Total Residual	APHA 23e 4500-Cl G (EK010) In-house Method EK010C
	- Chlorine-Free Residual	In-house Method EK011 In-house Method EK011C

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Non-metallic Constituents :- (cont'd)	
Water and Wastewater (cont'd)	- Chloride	In-house Method ED045K (Discrete analyzer) In-house method ED009 (Ion Chromatography)
	- Chlorite	In-house method ED013 (Ion Chromatography)
	- Chlorate	In-house method ED013 (Ion Chromatography)
	- Cyanide-Total	In-house Method EK026FIA (FIA)
	- Cyanide-Free	In-house Method EK025A (FIA)
	- Fluoride	APHA 23e 4500 F^- A&C (EK040) In-house method ED009 (Ion Chromatography)
	- Nitrate	In-house method ED009 (Ion Chromatography)
	- Nitrogen-Total	In-house Method EK062A (FIA) In-house Method EK062P (Persulphate method)
	- Nitrogen-Total Kjeldahl	In-house Method EK061A (FIA) In-house Method EK061P (By Calculation)
	- Nitrogen- Total Inorganic	In-house Method EK063A (By Calculation)
	- Nitrogen-Ammonia	In-house Method EK055A (FIA) In-house Method EK055K (Discrete analyzer)
	- Nitrogen-Nitrate	In-house Method EK058A (FIA) In-house Method EK058K (Discrete analyzer)
	- Nitrogen-Nitrate+Nitrite	In-house Method EK059A (FIA) In-house Method EK059K (Discrete analyzer)
	- Nitrogen-Nitrite	In-house Method EK057A (FIA) In-house Method EK057K (Discrete analyzer)
	- Oxygen-Dissolved	In-house Method EP025 (Titrimetric)
	- Dissolved Organic Carbon	In-house Method EP002 (Total Organic Carbon analyzer)
	- Perchlorate	In-house method ED013 (Ion Chromatography)
	- Phosphorus-Reactive	In-house Method EK071A (FIA) In-house Method EK071K (Discrete analyzer)

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Non-metallic Constituents :- (cont'd)	
Water and Wastewater (cont'd)	- Phosphorus-Total	In-house Method EK067A (FIA) In-house Method EK067P (Persulphate method)
	- Silica	In-house Method EK053K (Discrete analyzer)
	- Sulphate	In-house Method ED041K (Discrete analyzer) In-house method ED009 (Ion Chromatography)
	- Sulphide	APHA 23e 4500 S^{2-} D (with modification) (EK085)
	- Soluble sulphide	APHA 23e 4500-S^{2-}, B, C & D (EK085F)
	Trace Metals (Soluble): -	
Water and Wastewater	- Sample preparation procedure	In-house method E-filter
	- Hexavalent Chromium (Cr^{6+})	In House Method EG050 (Colorimetric)
	- Trivalent Chromium (Cr^{3+})	In house method EG049 (by calculation)
	Trace Metals (Soluble and total): -	
Water and Wastewater	- Digestion procedure	In House Method E-3005 In House Method E-filter
	- Aluminium, Antimony, Arsenic, Barium, Beryllium, Bismuth, Boron, Cadmium, Chromium, Cobalt, Copper, Gold, Lead, Lithium, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Selenium, Silver, Strontium, Thallium, Tin, Titanium, Tungsten, Vanadium, Zinc	In House Method EG020 (ICP-MS)
	- Mercury	In-house Method EG038 (By mercury analyzer)
	- Calcium, Magnesium, Iron, Potassium, Sodium	In-house method EG032 (ICP-AES)

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Organic Pollutants :	
Water and Wastewater	- Biochemical Oxygen Demand (BOD)	In-house Method EP030 (5-Day Electrode) BS EN 1899-1:1998 & BS 6068: Section 2.63:1998 (EP030BS)
	- Chemical Oxygen Demand (COD)	In-house Method EP026 (Open Reflux-Titrimetric) APHA 23e 5220C (EP026C)
	- Carbon-Total	In-house Method EP007 (NDIR)
	- Carbon-Total Organic	In-house Method EP005 (NDIR)
	- Nitrogen-Organic	In-house Method EK060A (By Calculation)
	- Oil and Grease	In-house Method EP020 (Gravimetric)
	- Phenols-Total	APHA 23e 5530 A, B & D (with modification) (EP035)
	- Surfactants-Non-ionic (as CTAS)	In-house Method EP041 (Colorimetric)
	- Surfactants-Anionic (as MBAS)	APHA 23e 5540 A&C (without sublation) (EP050)
	- Surfactants-Total (Anionic and Non-ionic)	In-house Method EP051 (By Calculation)
	- Total Petroleum Hydrocarbon	In-house Method EP015 (Gravimetric)
	- Volatile acids (as Acetic Acid)	In-house Method EP045 (By steam distillation)
Water and Wastewater	Biological Examination:	
	- Chlorophyll a	In House Method EP008F

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Organic Pollutants :-	
Drinking Water	2,4-Dichlorophenoxyacetic acid (2,4-D) (Free acid)	In-house method EP306 (LC/MS/MS)
Water and Wastewater	- Polychlorinated biphenyl congeners 2,4'-Dichlorobiphenyl (8) 2,2',5 - Trichlorobiphenyl (18) 2,4,4' - Trichlorobiphenyl (28) 2,2',3,5' - Tetrachlorobiphenyl (44) 2,2', 5,5' - Tetrachlorobiphenyl (52) 2,3',4,4'-Tetrachlorobiphenly (66) 3,3',4,4'-Tetrachlorobiphenly (77) 3,4,4',5-Tetrachlorobiphenyl (81) 2,2'4,5,5' - Pentachlorobiphenyl (101) 2,3,3',4,4' - Pentachlorobiphenyl (105) 2,3,4,4',5 –Pentachlorobiphenyl (114) 2,3'4,4',5 - Pentachlorobiphenyl (118) 2,3',4,4',5'-Pentachlorobiphenyl (123) 3,3',4,4',5 - Pentachlorobiphenyl (126) 2,2',3,3',4,4' - Hexachlorobiphenyl (128) 2,2',3,4,4',5' - Hexachlorobiphenyl (138) 2,2',3,4',5',6 - Hexachlorobiphenyl (149) 2,2',4,4',5,5' - Hexachlorobiphenyl (153) 2,3,3',4,4',5 - Hexachlorobiphenyl (156) 2,3,3',4,4',5' - Hexachlorobiphenyl (157) 2,3',4,4',5,5' - Hexachlorobiphenyl (167) 3,3',4,4',5,5'- Hexachlorobiphenyl (169) 2,2',3,3',4,4',5 - Heptachlorobiphenyl (170) 2,2',3,4,4',5,5' - Heptachlorobiphenyl (180) 2,2',3,4',5,5',6 - Heptachlorobiphenyl (187) 2,3,3',4,4',5,5'-Heptachlorobiphenyl (189) 2,2',3,3',4,4',5,6 - Octachlorobiphenyl (195) 2,2',3,3',4,4',5,5',6 - Nonachlorobiphenyl (206)	In house method EP065 (GC/MSD)
	- Total PCB	In House Method EP066 (GC/MSD)

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Organic Pollutants :- (cont' d)	
Water and Wastewater (cont'd)	- Phenols: Phenol 2-Chlorophenol 2-Methylphenol 4-Methylphenol 2-Nitrophenol 2,4-Dimethylphenol 2,4-Dichlorophenol 4-Chloro-3-methylphenol 2,4,6-Trichlorophenol 2,4,5-Trichlorophenol Pentachlorophenol	In House Method EP075A (GC/MSD)
	- Polycyclic Aromatic Hydrocarbons: Naphthalene 2-Methylnaphthalene 2-Chloronaphthalene Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene N-2-Fluorenylacetamide Benz(a)anthracene Chrysene Benzo(b) & (k) fluoranthene 7,12-Dimethylbenz(a)anthracene Benzo(a)pyrene 3-Methylcholanthrene Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene Benzo(g,h,i)perylene	In House Method EP075B (GC/MSD)

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Organic Pollutants :- (cont'd)	
Water and Wastewater (cont'd)	- Phthalate Esters: Dimethyl phthalate Diethyl phthalate Di-n-butyl phthalate Buty benzyl phthalate Bis(2-ethylhexyl) phthalate Di-n-octyl phthalate	In House Method EP075C (GC/MSD)
	- Nitrosamines: N-Nitrosomethylethylamine N-Nitrosodiethylamine N-Nitrosopyrrolidine N-Nitrosomorpholine N-Nitrosodi-n-propylamine N-Nitrosopiperidine N-Nitrosodibutylamine Diphenylamine & N-Nitrosodiphenylamine Diallate Methapyrilene	In House Method EP075D (GC/MSD)
	- Nitroaromatics and Ketones: 2-Picoline Acetophenone Nitrobenzene Isophorone 2,6-Dinitrotoluene 2,4-Dinitrotoluene 1-Naphthylamine 4-Nitroquinoline-N-oxide 5-Nitro-o-toluidine Azobenzene 1,3,5-Trinitrobenzene Phenacetin 4-Aminobiphenyl Pentachloronitrobenzene Pronamide Dimethylaminoazobenzene Chlorobenzilate	In House Method EP075E (GC/MSD)

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Organic Pollutants :- (cont'd)	
Water and Wastewater (cont'd)	- Haloethers: Bis(2-chloroethyl) ether Bis(2-chloroethoxy) methane 4-Chlorophenyl phenyl ether 4-Bromophenyl phenyl ether	In House Method EP075F (GC/MSD)
	- Chlorinated Hydrocarbons: 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene Hexachloroethane 1,2,4-Trichlorobenzene Hexachloropropylene Hexachlorobutadiene Hexachlorocyclopentadiene Pentachlorobenzene Hexachlorobenzene	In House Method EP075G (GC/MSD)
	- Anilines and Benzidines: Aniline 4-Chloroaniline 2-Nitroaniline 3-Nitroaniline Dibenzofuran 4-Nitroaniline Carbazole 3,3'Dichlorobenzidine	In House Method EP075H (GC/MSD)

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Organic Pollutants :- (cont'd)	
Water and Wastewater (cont'd)	- Organochlorine Pesticides: alpha-BHC beta-BHC & gamma BHC delta-BHC Heptachlor Aldrin Heptachlor epoxide Endosulfan 1 p,p'-DDE Dieldrin Endrin Endosulfan 2 p,p'-DDD p,p'-DDT Endosulfan sulfate	In House Method EP075I (GC/MSD)
	- Organophosphorus Pesticides: Methanesulfonate methyl Methanesulfonate ethyl Dichlorvos cis-Isosafrole trans-Isosafrole Safrole Dimethoate Diazinon Chlorpyrifos methyl Malathion Fenthion Chlorpyrifos Pirimiphos ethyl Chlorfenvinphos-E Chlorfenvinphos-Z Prothiofos Ethion	In House Method EP075J (GC/MSD)

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Organic Pollutants :- (cont'd)	
Water and Wastewater (cont'd)	- Polycyclic Aromatic Hydrocarbons: Naphthalene Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benz(a)anthracene Chrysene Benzo(b) fluoranthene Benzo(k) fluoranthene Benzo(b)&(k) fluoranthene Benzo(a)pyrene Benzo(e)pyrene Perylene Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene Benzo(g,h,i)perylene	In house method EP076HK (GC/MSD)
	- Phenol - Hexachlorobenzene - Bis-(2-ethylhexyl)phthalate	In house method EP076HK (GC/MSD)

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Organic Pollutants :- (cont'd)	
Water and Wastewater (cont'd)	- Organochlorine Pesticides: alpha-BHC beta-BHC delta BHC gamma-BHC Heptachlor Aldrin Heptachlor epoxide Endosulfan 1 p,p'DDE Dieldrin Endrin Endosulfan 2 p,p'DDD Endrin aldehyde Endosulfan sulfate p,p'DDT Endrin Ketone Methoxychlor Cypermethrins Cis-Chlordane Trans-Chlordane Hexachlorobenzene	In House Method EP067A (GC/MSD)
	- Organophosphous Pesticides: Dichlorvos Dimethoate Diazinon Chlorpyrifos methyl Parathion methyl Malathion Fenthion Chlorpyrifos Parathion Pirimiphos ethyl Bromophos ethyl Chlorfenvinphos E Chlorfenvinphos Z Fenamiphos Prothiofos Ethion Carbofenthion Azinphos methyl	In House Method EP067B (GC/MSD)

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Water and Wastewater (cont'd)	Organic Pollutants :- (cont'd)	
	- Triazine Pesticides: Simazine Atrazine	In House Method EP067C (GC/MSD)
	- TPH: C6-C9 C10-C14 C15-C28 C29-C36	In House Method EP071_SR (Purge and Trap GC/MSD and GC/FID)
	C6 - C8 C9 - C16 C17 - C35	In-house method EP071HK_SR (Purge and Trap GC/MSD and GC/FID)
	- Monocyclic Aromatics: Benzene Toluene Ethylbenzene meta- & para-Xylene Styrene ortho-Xylene Isopropylbenzene n-Propylbenzene 1,3,5-Trimethylbenzene sec-Butylbenzene 1,2,4-Trimethylbenzene tert-Butylbenzene p-Isopropyltoluene n-Butylbenzene	In House Method EP074_SR – A (Purge and Trap GC/MSD)
	Xylenes (Total)	In House Method EP074_SR – A (By calculation)
	- Oxygenated Compounds: 2-Propanone (Acetone) Vinyl acetate 2-Butanone (MEK) 4-Methyl-2-pentanone (MIBK) 2-Hexanone (MBK)	In House Method EP074_SR – B (Purge and Trap GC/MSD)
	- Sulfonated Compounds: Carbon disulfide	In House Method EP074_SR – C (Purge and Trap GC/MSD)

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Organic Pollutants :- (cont'd)	
Water and Wastewater (cont'd)	- Fumigants: 2,2-Dichloropropane 1,2-Dichloropropane cis-1,3-Dichloropropylene trans-1,3-Dichloropropylene 1,2-Dibromoethane	In House Method EP074_SR – D (Purge and Trap GC/MSD)
	- Halogenated Aliphatics: 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroethylene 1,1-Dichloroethane cis-1,2-Dichloroethene 1,1,1-Trichloroethane 1,1-Dichloroethane Carbon tetrachloride 1,2-Dichloroethane Trichloroethene Dibromomethane 1,1,2-Trichloroethane 1,3-Dichloropropane Tetrachloroethene 1,1,1,2-Tetrachloroethane 1,1,2,2-Tetrachloroethane 1,2,3-Trichloropropane 1,2-Dibromo-3-chloropropane Hexachlorobutadiene	In House Method EP074_SR – E (Purge and Trap GC/MSD)
	- Halogenated Aromatics: Chlorobenzene Bromobenzene 2-Chlorotoluene 4-Chlorotoluene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene 1,2,4-Trichlorobenzene 1,2,3-Trichlorobenzene	In House Method EP074_SR – F (Purge and Trap GC/MSD)

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Organic Pollutants :- (cont'd)	
Water and Wastewater (cont'd)	- Trihalomethanes: Chloroform Bromodichloromethane Dibromochloromethane Bromoform	In House Method EP074_SR – G (Purge and Trap GC/MSD)
	- Total Trihalomethanes: Sum of Chloroform, Bromodichloromethane, Dibromochloromethane, and Bromoform	In House Method EP074_SR – G (by calculation)
	- Sum ratio of total trihalomethanes: Sum of Chloroform/300, Bromodichloromethane/60, Dibromochloromethane/100, and Bromoform/100	In House Method EP074_SR – G (by calculation)
	- Naphthalene	In House Method EP074_SR – H (Purge and Trap GC/MSD)
	- Methyl-tert-butyl ether (MTBE)	In House Method EP074_SR – I (Purge and Trap GC/MSD)
	- BTEX: Benzene Toluene Chlorobenzene Ethylbenzene meta- & para-Xylene ortho-Xylene	In House Method EP080_SR (Purge and Trap GC/MSD)
	- Tributyl tin	In House Method EP390 (By LC-MS/MS)
	- Tributyl tin in interstitial water	In House Method EP390 (By LC-MS/MS)
	- Triphenyl tin	In House Method EP390 (By LC-MS/MS)
	- Triphenyl tin in interstitial water	In House Method EP390 (By LC-MS/MS)
	- Total polychlorinated biphenyls	In House Method EP066_67 (PTV-GC/MSD)

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Organic Pollutants :- (cont'd)	
Potable water and tap water	- Haloacetic acids Chloroacetic acid Dichloroacetic acid Trichloroacetic acid Bromoacetic acid Bromochloroacetic acid Bromodichloroacetic acid Dibromoacetic acid Chlorodibromoacetic acid Tribromoacetic acid Dalapon	In House Method EP392 (by LC-MS/MS)
	Total Haloacetic acids (sum of Chloroacetic acid, Dichloroacetic acid, Trichloroacetic acid, Bromoacetic acid and Dibromoacetic acid)	In House Method EP392 (by calculation)
	Sum of Chloroacetic acid, Dichloroacetic acid, Trichloroacetic acid, Bromoacetic acid, Dibromoacetic acid, Tribromoacetic acid, Bromochloroacetic acid, Bromodichloroacetic Acid and Chlorodibromoacetic acid	In House Method EP392 (by calculation)

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Microbiological examinations:-	
Water and Wastewater and Saline water	- *E. coli*	DoE (1983) The Bacteriological Examination of Drinking Water Supplies, 1982 Sections 7.8 and 7.9 (Membrane Filtration Procedure: Section 7.8, 7.9.4.2 Bacterial Confirmation: Section 7.9.4.4 and urease test (Appl. Environ. Microbiol. 29, p826-833) (EM002) DoE (1983) The Bacteriological Examination of Drinking Water Supplies, 1982 Sections 7.8 and 7.9 (Membrane Filtration Procedure: Section 7.8, 7.9.4.2) Bacterial Confirmation: urease test (Appl. Environ. Microbiol. 29, p826-833) (EM002a)
	- Heterotrophic plate count (Colony count at 35°C) (Colony count at 37°C)	APHA 24e 9215A & B (EM001)
Water and Wastewater	- Total Coliform	DoE (1983) The Bacteriological Examination of Drinking Water Supplies, 1982 Sections 7.8 and 7.9 (Membrane Filtration Procedure: Section 7.8, 7.9.4.1 Bacterial Confirmation: Section 7.9.4.3) (EM003)
	- Faecal Coliform	DoE (1983) The Bacteriological Examination of Drinking Water Supplies, 1982 Sections 7.8 and 7.9 (Membrane Filtration Procedure: Section 7.8, 7.9.4.2 Bacterial Confirmation: Section 7.7.6.3) (EM004)
	- Enumeration of *Enterococci*	United States Environmental Protection Agency Method 1600: Enterococci in water by membrane filtration using membrane Enterococcus Indoxyl-β-D-Glucoside Agar (mEI) (EM010)
	- *Pseudomonas aeruginosa*	ISO 16266:2006 (E) (Membrane filtration) (EM009) BS EN ISO 16266:2008 (EM009) (Membrane filtration)
	- *Staphylococcus aureus*	Health Protection Agency (2007) National Standard Method, W10, Issue 3.3 (Membrane filtration) (EM008)

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Microbiological examinations:- (cont'd)	
Water and Wastewater and Saline water	- *Vibrio cholerae*	Centres for Disease Control and Prevention - Laboratory Methods for Diagnosis of *Vibrio cholerae* Ch. V & VI (EM011) <***Ecluding the following***> Ch. VI, Part C, Part D, Part E
	- *Vibrio parahaemolyticus*	APHA 24e 9278 (EM018a)
Water and Wastewater (excluding drinking water) and Saline water	- Enumeration of *E. coli*	Environmental Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3, Environmental Protection Department, HK (EM019)
	- Faecal Coliform	Environmental Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3, Environmental Protection Department, HK (EM022)
Marine water	- Enumeration of *Enterococci*	United States Environmental Protection Agency Method 1600: Enterococci in water by membrane Filtration using membrane Enterococcus Indoxyl-β-D-Glucoside Agar (mEI) (EM010)
Marine water (including beach water)	- Total *Staphylococci* and *Staphylococcus aureus*	APHA 24e 9213D (EM040)

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Microbiological examinations:- (cont'd)	
Drinking Water, Treated Bathing Water, Water for human use and consumption	- *Legionella spp.* including *Legionella pneumophila*	ISO 11731:2017 (EM016B)
Water and wastewater, Cooling tower water and surface swab samples	- *Legionella spp.* including *Legionella pneumophila*	ISO 11731:2017 (EM039)
Water, Wastewater, and Cooling Tower Water	- *Legionella spp.* including *Legionella pneumophila*	AS/NZS 3896:1998 (EM016)
Water and Wastewater and Cooling tower water	- *Legionella spp.* including *Legionella pneumophila*	AS 3896:2017 (EM016a)

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Physical Examination:-	
Saline water	- Solids-Total Suspended	APHA 23e 2540D (EA025B) In-house Method EA025
	- Volatile and Fixed Suspended Solids	APHA23e 2540E (EA035A)
	Non-metallic Constituents :-	
	- Carbon-Total Inorganic	In-house Method EP006 (NDIR)
	- Dissolved Organic Carbon	In-house Method EP002 (Total Organic Carbon analyzer)
	- Nitrogen-Ammonia	In-house Method EK055A (FIA) In-house Method EK055K (Discrete analyzer)
	- Nitrogen-Nitrate	In-house Method EK058A (FIA) In-house Method EK058K (Discrete analyzer)
	- Nitrogen-Nitrate+Nitrite	In-house Method EK059A (FIA) In-house Method EK059K (Discrete analyzer)
	- Nitrogen-Nitrite	In-house Method EK057A (FIA) In-house Method EK057K (Discrete analyzer)
	- Nitrogen-Total	In-house Method EK062P (Persulphate method) In-house Method EK062A (By calculation)
	- Nitrogen-Total Inorganic	In-house Method EK063A (By calculation)
	- Nitrogen- Total Kjeldahl	In-house Method EK061A (FIA) In-house method EK061P (By calculation)
	- Phosphorus-Reactive	In-house Method EK071A (FIA) In-house Method EK071K (Discrete analyzer)
	- Phosphorus-Total	In-house Method EK067A (FIA) In-house Method EK067P (Persulphate method)
	- Silica	In-house Method EK053K (Discrete analyzer)
	- Bromide`	In-house method EG055 (ICPMS)

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Saline water (cont'd)	Trace metals (soluble and total):-	
	- Digestion procedure	In-house method E-filter In-house method E-3005
	- Arsenic, Aluminium, Antimony, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Nickel, Silver, Thallium, Tin, Selenium, Vanadium, Zinc	In-house method EG029 (ICP-MS – He mode)
	- Mercury	In-house Method EG038 (By mercury analyzer)
	Organic Pollutants :-	
	- Carbon-Total	In-house Method EP007 (NDIR)
	- Carbon-Total Organic	In-house Method EP005 (NDIR)
	- Total polychlorinated biphenyls	In House Method EP066_67 (PTV-GC/MSD)
	- Organochlorine Pesticides: alpha-BHC beta-BHC delta BHC gamma-BHC Heptachlor Aldrin Heptachlor epoxide Endosulfan 1 p,p'DDE Dieldrin Endrin Endosulfan 2 p,p'DDD Endrin aldehyde Endosulfan sulfate p,p'DDT Endrin Ketone Methoxychlor Cypermethrins Cis-Chlordane Trans-Chlordane Hexachlorobenzene	In House Method EP067A (GC/MSD)

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Organic Pollutants :- (cont'd)	
Saline water (cont'd)	- Organophosphous Pesticides: Dichlorvos Dimethoate Diazinon Chlorpyrifos methyl Parathion methyl Malathion Fenthion Chlorpyrifos Parathion Pirimiphos ethyl Bromophos ethyl Chlorfenvinphos E Chlorfenvinphos Z Fenamiphos Prothiofos Ethion Carbofenthion Azinphos methyl	In House Method EP067B (GC/MSD)
	- Triazine Pesticides: Simazine Atrazine	In House Method EP067C (GC/MSD)
	- TPH: C6-C9 C10-C14 C15-C28 C29-C36	In House Method EP071_SR (Purge and Trap GC/MSD and GC/FID)
	C6 - C8 C9 - C16 C17 - C35	In-house method EP071HK_SR (Purge and Trap GC/MSD and GC/FID)

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Organic Pollutants :- (cont' d)	
Saline water (cont'd)	- Phenols: Phenol 2-Chlorophenol 2-Methylphenol 4-Methylphenol 2-Nitrophenol 2,4-Dimethylphenol 2,4-Dichlorophenol 4-Chloro-3-methylphenol 2,4,6-Trichlorophenol 2,4,5-Trichlorophenol Pentachlorophenol	In House Method EP075A (GC/MSD)
	- Polycyclic Aromatic Hydrocarbons: Naphthalene 2-Methylnaphthalene 2-Chloronaphthalene Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene N-2-Fluorenylacetamide Benz(a)anthracene Chrysene Benzo(b) & (k) fluoranthene 7,12-Dimethylbenz(a)anthracene Benzo(a)pyrene 3-Methylcholanthrene Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene Benzo(g,h,i)perylene	In House Method EP075B (GC/MSD)
	- Phthalate Esters: Dimethyl phthalate Diethyl phthalate Di-n-butyl phthalate Buty benzyl phthalate Bis(2-ethylhexyl) phthalate Di-n-octyl phthalate	In House Method EP075C (GC/MSD)

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Organic Pollutants :- (cont'd)	
Saline water (cont'd)	- Nitrosamines: N-Nitrosomethylethylamine N-Nitrosodiethylamine N-Nitrosopyrrolidine N-Nitrosomorpholine N-Nitrosodi-n-propylamine N-Nitrosopiperidine N-Nitrosodibutylamine Diphenylamine & N-Nitrosodiphenylamine Diallate Methapyrilene	In House Method EP075D (GC/MSD)
	- Nitroaromatics and Ketones: 2-Picoline Acetophenone Nitrobenzene Isophorone 2,6-Dinitrotoluene 2,4-Dinitrotoluene 1-Naphthylamine 4-Nitroquinoline-N-oxide 5-Nitro-o-toluidine Azobenzene 1,3,5-Trinitrobenzene Phenacetin 4-Aminobiphenyl Pentachloronitrobenzene Pronamide Dimethylaminoazobenzene Chlorobenzilate	In House Method EP075E (GC/MSD)
	- Haloethers: Bis(2-chloroethyl) ether Bis(2-chloroethoxy) methane 4-Chlorophenyl phenyl ether 4-Bromophenyl phenyl ether	In House Method EP075F (GC/MSD)

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Organic Pollutants :- (cont'd)	
Saline water (cont'd)	- Chlorinated Hydrocarbons: 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene Hexachloroethane 1,2,4-Trichlorobenzene Hexachloropropylene Hexachlorobutadiene Hexachlorocyclopentadiene Pentachlorobenzene Hexachlorobenzene	In House Method EP075G (GC/MSD)
	- Anilines and Benzidines: Aniline 4-Chloroaniline 2-Nitroaniline 3-Nitroaniline Dibenzofuran 4-Nitroaniline Carbazole 3,3'Dichlorobenzidine	In House Method EP075H (GC/MSD)
	- Organochlorine Pesticides: alpha-BHC beta-BHC & gamma BHC delta-BHC Heptachlor Aldrin Heptachlor epoxide Endosulfan 1 p,p'-DDE Dieldrin Endrin Endosulfan 2 p,p'-DDD p,p'-DDT Endosulfan sulfate	In House Method EP075I (GC/MSD)

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Organic Pollutants :- (cont'd)	
Saline water (cont'd)	- Organophosphorus Pesticides: Methanesulfonate methyl Methanesulfonate ethyl Dichlorvos cis-Isosafrole trans-Isosafrole Safrole Dimethoate Diazinon Chlorpyrifos methyl Malathion Fenthion Chlorpyrifos Pirimiphos ethyl Chlorfenvinphos-E Chlorfenvinphos-Z Prothiofos Ethion	In House Method EP075J (GC/MSD)
	- Polycyclic Aromatic Hydrocarbons: Naphthalene Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benz(a)anthracene Chrysene Benzo(b) fluoranthene Benzo(k) fluoranthene Benzo(b)&(k) fluoranthene Benzo(a)pyrene Benzo(e)pyrene Perylene Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene Benzo(g,h,i)perylene	In house method EP076HK (GC/MSD)
	- Phenol - Hexachlorobenzene - Bis-(2-ethylhexyl)phthalate	In house method EP076HK (GC/MSD)

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Organic Pollutants :- (cont'd)	
Saline water (cont'd)	- Polychlorinated biphenyl congeners 2,4'-Dichlorobiphenyl (8) 2,2',5 - Trichlorobiphenyl (18) 2,4,4' - Trichlorobiphenyl (28) 2,2',3,5' - Tetrachlorobiphenyl (44) 2,2', 5,5' - Tetrachlorobiphenyl (52) 2,3',4,4'-Tetrachlorobiphenly (66) 3,3',4,4'-Tetrachlorobiphenly (77) 3,4,4',5-Tetrachlorobiphenyl (81) 2,2'4,5,5' - Pentachlorobiphenyl (101) 2,3,3',4,4' - Pentachlorobiphenyl (105) 2,3,4,4',5 –Pentachlorobiphenyl (114) 2,3'4,4',5 - Pentachlorobiphenyl (118) 2,3',4,4',5'-Pentachlorobiphenyl (123) 3,3',4,4',5 - Pentachlorophenyl (126) 2,2',3,3',4,4' - Hexachlorobiphenyl (128) 2,2',3,4,4',5' - Hexachlorobiphenyl (138) 2,2',3,4',5',6 - Hexachlorobiphenyl (149) 2,2',4,4',5,5' - Hexachlorobiphenyl (153) 2,3,3',4,4',5 - Hexachlorobiphenyl (156) 2,3,3',4,4',5' - Hexachlorobiphenyl (157) 2,3',4,4',5,5' - Hexachlorobiphenyl (167) 3,3',4,4',5,5'- Hexachlorobiphenyl (169) 2,2',3,3',4,4',5 - Heptachlorobiphenyl (170) 2,2',3,4,4',5,5' - Heptachlorobiphenyl (180) 2,2',3,4',5,5',6 - Heptachlorobiphenyl (187) 2,3,3',4,4',5,5'-Heptachlorobiphenyl (189) 2,2',3,3',4,4',5,6 - Octachlorobiphenyl (195) 2,2',3,3',4,4',5,5',6 - Nonachlorobiphenyl (206)	In house method EP065 (GC/MSD)
	- Tributyl tin	In-house Method EP390 (By LC-MS/MS)
	- Tributyl tin in interstitial water	In-house Method EP390 (By LC-MS/MS)
	-Triphenyl tin	In-house Method EP390 (By LC-MS/MS)
	-Triphenyl tin in interstitial water	In-house Method EP390 (By LC-MS/MS)
Marine water	Biological Examination:	
	- Chlorophyll a	In House Method EP008F

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Sediment and Soil	Trace Metals (Acid Leachable):	
	- Hexavalent Chromium Cr (VI)	In House Method EG3060 (ICP-MS)
	- Trivalent Chromium Cr (III)	In house method EG049 (by calculation)
	- Digestion procedure	In House Method E-ASTM D3974-09 (hydrochloric/nitric acid)
	- Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Molybdenum, Nickel, Selenium, Silver, Thallium, Tin, Vanadium, Zinc, Mercury	In House Method EG020 (ICP-MS)
	- Digestion procedure	In House Method E-3051A (microwave)
	- Antimony, Arsenic, Barium, Beryllium, Bismuth, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Molybdenum, Nickel, Selenium, Silver, Strontium, Thallium, Tin, Vanadium, Zinc, Mercury	In House Method EG020 (ICP-MS)
	- Digestion procedure	In House Method E-ASTM D3974-09 (hydrochloric/nitric acid)
	- Calcium, Iron, Magnesium, Potassium, Sodium	In House Method EG032 (ICP-AES)
	- Digestion procedure	In House Method E-ASTM D3974-09 (hydrochloric/nitric acid) In House Method E-3051A (microwave)
	- Mercury	In House Method EG036 (Cold vapour)
Sand	Trace Metals (Acid Leachable):	
	- Digestion procedure	In House Method E-ASTM(Sand) (hydrochloric/nitric acid)
	- Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Molybdenum, Nickel, Mercury Selenium, Silver, Thallium, Tin, Zinc	In House Method EG020 (ICP-MS)

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Sediment and soil, ash, cement and the mixture of the above	TCLP Metals : (Toxicity Characteristic Leaching Procedures)	
	- Extraction procedure	USEPA SW-846 Method 1311 (E-TCLP)
	- Beryllium, Vanadium, Chromium, Copper, Manganese, Cobalt, Nickel, Cadmium, Zinc, Arsenic, Molybdenum, Selenium, Barium, Thallium, Lead, Silver, Tin, Antimony	In House Method EG020 (ICP-MS)
	- Mercury	In House Method EG036 (Cold vapour)

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Physical Examination :	
Sediment and Soil	- Moisture (103 °C – 105 °C)	In-house Method EA055 (Gravimetric)
	- Solids-Total (103 °C – 105 °C)	In-house Method EA030A (Gravimetric)
Soil	- 1:5 Soil: Water Extraction Procedure	In-house method E-1:5P
	pH Value of 1:5 soil / water extract	In-house method EA002SOIL
	Conductivity of 1:5 soil /water extract	In-house method EA010SOIL
	Non-metallic Constituents:-	
Sediment and Soil	- Cyanide-Total	In-house Method EK026FIA (FIA)
	- Cyanide- Free	In-house Method EK025MD/EK026A (Colorimetric) In house method EK025MD/EK025A (FIA)
	- Carbon-Total Inorganic	In-house Method EP006 (NDIR)
Sediments	- Acid Volatile Sulphide	USEPA 821/R-91-100 (EK082)
Soil	- Nitrogen-Total Kjeldahl	In-house Method EK061A (FIA)
	- Total Phosphorus	In-house method EK067A
	Non-metallic Constituents (extractable): -	
	- 1:5 Solid: KCl solution Extraction Procedure	In-house method E-1:5 KCl PR
	- Nitrogen-Ammonia	In-house Method EK055S (Discrete analyser)
	- Nitrogen-Nitrate+Nitrite	In-house Method EK059A (FIA)
	- Nitrogen-Nitrate	In-house Method EK058A (FIA)
	- Nitrogen-Nitrite	In-house Method EK057A (FIA)
	Organic Pollutants :-	
Sediment and Soil	- Carbon-Total	In-house Method EP007 (NDIR)
	- Carbon-Total Organic	In-house Method EP005 (NDIR) In-house Method EP009 (Acid pre-treatment)

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Organic Pollutants :- (cont'd)	
Sediment and Soil (cont'd)	- Polycyclic Aromatic Hydrocarbons: Naphthalene Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benz(a)anthracene Chrysene Benzo(b)&(k) fluoranthene Benzo(a)pyrene Benzo(e)pyrene Perylene Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene Benzo(g,h,i)perylene	In House Method EP076 (GC/MSD)
	- Polycyclic Aromatic Hydrocarbons Naphthalene Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benz(a)anthracene Chrysene Benzo(b)&(k) fluoranthene Benzo(b) fluoranthene Benzo(k) fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene Benzo(g,h,i)perylene	In house method EP076HK (GC/MSD)
	- Phenol, Hexachlorobenzene, Bis-(2-ethylhexyl)phthalate	In house method EP076HK (GC/MSD)

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Organic Pollutants :- (cont'd)	
Sediment and Soil (cont'd)	- Phenols: Phenol 2-Chlorophenol 2-Methylphenol 4-Methylphenol 2-Nitrophenol 2,4-Dimethylphenol 2,4-Dichlorophenol 4-Chloro-3-methylphenol 2,4,6-Trichlorophenol 2,4,5-Trichlorophenol Pentachlorophenol	In House Method EP075A (GC/MSD)
	- Polycyclic Aromatic Hydrocarbons: Naphthalene 2-Methylnaphthalene 2-Chloronaphthalene Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene N-2-Fluorenylacetamide Benz(a)anthracene Chrysene Benzo(b)&(k) fluoranthene 7,12-Dimethylbenz(a)anthracene Benzo(a)pyrene 3-Methylcholanthrene Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene Benzo(g,h,i)perylene	In House Method EP075B (GC/MSD)

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Sediment and Soil (cont'd)	Organic Pollutants :- (cont'd)	
	- Phthalate Esters: Dimethyl phthalate Diethyl phthalate Di-n-butyl phthalate Butyl benzyl phthalate Bis(2-ethylhexyl) phthalate Di-n-octyl phthalate	In House Method EP075C (GC/MSD)
	- Nitrosamines: N-Nitrosomethylethylamine N-Nitrosodiethylamine N-Nitrosopyrrolidine N-Nitrosomorpholine N-Nitrosodi-n-propylamine N-Nitrosopiperidine N-Nitrosodibutylamine Diphenylamine & N-Nitrosodiphenylamine Diallate Methapyrilene	In House Method EP075D (GC/MSD)
	- Nitroaromatics and Ketones: 2-Picoline Acetophenone Nitrobenzene Isophorone 2,6-Dinitrotoluene 2,4-Dinitrotoluene 1-Naphthylamine 4-Nitroquinoline-N-oxide 5-Nitro-o-toluidine Azobenzene 1,3,5-Trinitrobenzene Phenacetin 4-Aminobiphenyl Pentachloronitrobenzene Pronamide Dimethylaminoazobenzene Chlorobenzilate	In House Method EP075E (GC/MSD)

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Organic Pollutants :- (cont'd)	
Sediment and Soil (cont'd)	- Haloethers: Bis(2-chloroethyl) ether Bis(2-chloroethoxy) methane 4-Chlorophenyl phenyl ether 4-Bromophenyl phenyl ether	In House Method EP075F (GC/MSD)
	- Chlorinated Hydrocarbons: 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene Hexachloroethane 1,2,4-Trichlorobenzene Hexachloropropylene Hexachlorobutadiene Hexachlorocyclopentadiene Pentachlorobenzene Hexachlorobenzene	In House Method EP075G (GC/MSD)
	- Anilines and Benzidines: Aniline 4-Chloroaniline 2-Nitroaniline 3-Nitroaniline Dibenzofuran 4-Nitroaniline Carbazole 3,3'Dichlorobenzidine	In House Method EP075H (GC/MSD)

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Organic Pollutants :- (cont'd)	
Sediment and Soil (cont'd)	- Organochlorine Pesticides: alpha-BHC beta-BHC & gamma-BHC delta-BHC Heptachlor Aldrin Heptachlor epoxide Endosulfan 1 p,p'-DDE Dieldrin Endrin Endosulfan 2 p,p'-DDD Endosulfan sulfate p,p'-DDT	In House Method EP075I (GC/MSD)
	- Organophosphorus Pesticides: Methanesulfonate methyl Methanesulfonate ethyl Dichlorvos cis-Isosafrole trans-Isosafrole Safrole Dimethoate Diazinon Chlorpyrifos methyl Malathion Fenthion Chlorpyrifos Pirimiphos ethyl Chlorfenvinphos-E Chlorfenvinphos-Z Prothiofos Ethion	In House Method EP075J (GC/MSD)

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Sediment and Soil (cont'd)	Organic Pollutants :- (cont'd)	
	- Organochlorine Pesticides p,p'-DDE p,p'-DDD o,p'-DDT p,p'-DDT	In House Method EP066_67 (PTV-GC/MSD)
	- Total polychlorinated biphenyls	In House Method EP066 (GC/MSD) In House Method EP066_67 (PTV-GC/MSD)
	- Polychlorinated biphenyl congeners: 2,4'-Dichlorobiphenyl (8) 2,2'5 - Trichlorobiphenyl (18) 2,4,4' - Trichlorobiphenyl (28) 2,2',3,5' - Tetrachlorobiphenyl (44) 2,2', 5,5' - Tetrachlorobiphenyl (52) 2,3',4,4'-Tetrachlorobiphenly (66) 3,3',4,4'-Tetrachlorobiphenly (77) 2,2'4,5,5' - Pentachlorobiphenyl (101) 2,3,3'4,4' - Pentachlorobiphenyl (105) 2,3'4,4',5 - Pentachlorobiphenyl (118) 3,3',4,4',5-Pentachlorophenyl (126) 2,2',3,3',4,4' - Hexachlorobiphenyl (128) 2,2',3,4,4',5' - Hexachlorobiphenyl (138) 2,2',3,4',5',6-Hexachlorobiphenyl (149) 2,2',4,4',5,5' - Hexachlorobiphenyl (153) 2,3,3',4,4',5 - Hexachlorobiphenyl (156) 3,3',4,4',5,5'-Hexachlorobiphenyl (169) 2,2',3,3',4,4'5 - Heptachlorobiphenyl (170) 2,2',3,4,4',5,5' - Heptachlorobiphenyl (180) 2,2',3,4',5,5',6-Heptachlorobiphenyl (187) 2,2',3,3',4,4',5,6-Octachlorobiphenyl (195) 2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (206)	In house method EP065 (GC/MSD)

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Sediment and Soil (cont'd)	Organic Pollutants :- (cont'd)	
	- TPH: C6-C9 C10-C14 C15-C28 C29-C36	In House Method EP071_SR (Purge and Trap GC/MSD and GC/FID)
	C6 - C8 C9 - C16 C17 - C35	In-house method EP071HK_SR (Purge and Trap GC/MSD and GC/FID)
	- Monocyclic Aromatics: Benzene Toluene Ethylbenzene meta- & para-Xylene Styrene ortho-Xylene Isopropylbenzene n-Propylbenzene 1,3,5-Trimethylbenzene sec-Butylbenzene 1,2,4-Trimethylbenzene tert-Butylbenzene p-Isopropyltoluene n-Butylbenzene	In House Method EP074_SR – A (Purge and Trap GC/MSD)
	Xylenes (Total)	In House Method EP074_SR – A (Purge and Trap GC/MSD) (By calculation)
	- Oxygenated Compounds: 2-Propanone (Acetone) Vinyl acetate 2-Butanone (MEK) 4-Methyl-2-pentanone (MIBK) 2-Hexanone (MBK)	In House Method EP074_SR – B (Purge and Trap GC/MSD)
	- Sulfonated Compounds: Carbon disulfide	In House Method EP074_SR – C (Purge and Trap GC/MSD)

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Organic Pollutants :- (cont'd)	
Sediment and Soil (cont'd)	- Fumigants: 2,2-Dichloropropane 1,2-Dichloropropane cis-1,3-Dichloropropylene trans-1,3-Dichloropropylene 1,2-Dibromoethane	In House Method EP074_SR – D (Purge and Trap GC/MSD)
	- Halogenated Aliphatics: 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroethylene 1,1-Dichloroethane cis-1,2-Dichloroethene 1,1,1-Trichloroethane 1,1-Dichloroethane Carbon tetrachloride 1,2-Dichloroethane Trichloroethene Dibromomethane 1,1,2-Trichloroethane 1,3-Dichloropropane Tetrachloroethene 1,1,1,2-Tetrachloroethane 1,1,2,2-Tetrachloroethane 1,2,3-Trichloropropane 1,2-Dibromo-3-chloropropane Hexachlorobutadiene	In House Method EP074_SR – E (Purge and Trap GC/MSD)
	- Halogenated Aromatics: Chlorobenzene Bromobenzene 2-Chlorotoluene 4-Chlorotoluene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene 1,2,4-Trichlorobenzene 1,2,3-Trichlorobenzene	In House Method EP074_SR – F (Purge and Trap GC/MSD)

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Organic Pollutants :- (cont'd)	
Sediment and Soil (cont'd)	- Trihalomethanes: Chloroform Bromodichloromethane Dibromochloromethane Bromoform	In House Method EP074_SR – G (Purge and Trap GC/MSD)
	- Naphthalene	In House Method EP074_SR – H (Purge and Trap GC/MSD)
	- Methyl-tert-butyl ether (MTBE)	In House Method EP074_SR – I (Purge and Trap GC/MSD)
	- BTEX: Benzene Toluene Chlorobenzene Ethylbenzene meta- & para-Xylene ortho-Xylene	In House Method EP080_SR (Purge and Trap GC/MSD)
	- Organochlorine Pesticides alpha-BHC beta-BHC delta BHC gamma-BHC Heptachlor Aldrin Heptachlor epoxide Endosulfan 1 p,p'DDE Dieldrin Endrin Endosulfan 2 p,p'DDD Endrin aldehyde Endosulfan sulfate p,p'DDT Endrin Ketone Methoxychlor Cypermethrins Cis-Chlordane Trans-Chlordane Hexachlorobenzene	In House Method EP067A (GC/MSD)

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Organic Pollutants :- (cont'd)	
Sediment and Soil (cont'd)	- Organophosphous Pesticides: Dichlorvos Monocrotophos Dimethoate Diazinon Chlorpyrifos methyl Parathion methyl Malathion Fenthion Chlorpyrifos Parathion Pirimiphos ethyl Bromophos ethyl Chlorfenvinphos E Chlorfenvinphos Z Fenamiphos Prothiofos Ethion Carbofenthion Azinphos methyl	In House Method EP067B (GC/MSD)
	- Triazine Pesticides: Simazine Atrazine	In House Method EP067C (GC/MSD)
	- Tributyl tin	In-house Method EP390 (By LC-MS/MS)
	- Tributyl tin oxide by calculation	In-house Method EP390 (By calculation from Tributyl tin)
	- Triphenyl tin	In-house Method EP390 (By LC-MS/MS)
	- Tributyl tin	In-house Method EP390_SR (By LC-MS/MS)
	- Tributyl tin oxide by calculation	In-house Method EP390_SR (By calculation from Tributyl tin)
	- Triphenyl tin	In-house Method EP390_SR (By LC-MS/MS)

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Toxicity Tests :-	
Sediments	10-D Amphipod Survival Test - Leptocheirus plumulosus	USEPA 600/R-94/025 June 1994 Test Method 100.4 (ET001)
	20-D Polychaete Growth and Survival Test – *Neanthes arenaceodentata*	Recommended Guidelines for Conducting Laboratory Bioassays on Puget Sound Sediments, PSEP, July 1995 (ET002)
	48-60 Hour Bivalve Larvae Survival and Normality Test – *Crassostrea gigas*	Recommended Guidelines for Conducting Laboratory Bioassays on Puget Sound Sediments, PSEP, July 1995 (ET012)

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Trace Metals :-	
Biota	Digestion procedure	In House Method E-BIOTA (Microwave)
	Arsenic, Cadmium, Chromium, Copper, Lead, Nickel, Silver, Zinc, Mercury	In House Method EG020 (ICP-MS)
	Organic Pollutants :-	
	- Polycyclic Aromatic Hydrocarbons: Naphthalene Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benz(a)anthracene Chrysene Benzo(b)&(k) fluoranthene Benzo(a)pyrene Benzo(e)pyrene Perylene Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene Benzo(g,h,i)perylene	In House Method EP076 (GC/MSD)
	- Organochlorine Pesticides: p,p'-DDE p,p'-DDD o,p'-DDT p,p'-DDT	In House Method EP066_67 (PTV-GC/MSD)
	- Total polychlorinated biphenyls	In House Method EP066_67 (PTV-GC/MSD)
	- Tributyl tin	In-house Method EP390 (By LC-MS/MS)
	- Triphenyl tin	In-house Method EP390 (By LC-MS/MS)

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Biota (cont'd)	Organic Pollutants :- (cont'd) - Polychlorinated biphenyl congeners 2,4'-Dichlorobiphenyl (8) 2,2',5 - Trichlorobiphenyl (18) 2,4,4' - Trichlorobiphenyl (28) 2,2',3,5' - Tetrachlorobiphenyl (44) 2,2', 5,5' - Tetrachlorobiphenyl (52) 2,3',4,4'-Tetrachlorobiphenly (66) 3,3',4,4'-Tetrachlorobiphenly (77) 3,4,4',5-Tetrachlorobiphenyl (81) 2,2'4,5,5' - Pentachlorobiphenyl (101) 2,3,3',4,4' - Pentachlorobiphenyl (105) 2,3,4,4',5 –Pentachlorobiphenyl (114) 2,3'4,4',5 - Pentachlorobiphenyl (118) 2,3',4,4',5'-Pentachlorobiphenyl (123) 3,3',4,4',5 - Pentachlorophenyl (126) 2,2',3,3',4,4' - Hexachlorobiphenyl (128) 2,2',3,4,4',5' - Hexachlorobiphenyl (138) 2,2',3,4',5',6 - Hexachlorobiphenyl (149) 2,2',4,4',5,5' - Hexachlorobiphenyl (153) 2,3,3',4,4',5 - Hexachlorobiphenyl (156) 2,3,3',4,4',5' - Hexachlorobiphenyl (157) 2,3',4,4',5,5' - Hexachlorobiphenyl (167) 3,3',4,4',5,5'- Hexachlorobiphenyl (169) 2,2',3,3',4,4',5 - Heptachlorobiphenyl (170) 2,2',3,4,4',5,5' - Heptachlorobiphenyl (180) 2,2',3,4',5,5',6 - Heptachlorobiphenyl (187) 2,3,3',4,4',5,5'-Heptachlorobiphenyl (189) 2,2',3,3',4,4',5,6 - Octachlorobiphenyl (195) 2,2',3,3',4,4',5,5',6 - Nonachlorobiphenyl (206)	In house method EP065 (GC/MSD)

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Trace metals:-	
General foodstuff	Antimony, Arsenic, Boron, Cadmium, Chromium, Copper, Mercury, Nickel, Tin, Zinc, Lead	In-house method E-BIOTA and E-3051A (Microwave) In-house method FG020 (ICP-MS)
	Calcium, Iron, Magnesium, Sodium, Potassium	In-house method E-BIOTA and E-3051A (Microwave) In-house method FG032 (ICP-AES)
	Mecury	In-house method E-BIOTA and E-3051A (Microwave) In House method FG038 (By mercury analyzer)
Milk and milk products	Lead	In-house method E-BIOTA (Microwave) In-house method FG020 (ICP-MS)
Rice and rice products	Inorganic Arsenic	In-house method FG021 (ICP-MS)
Rice, aquatic products and seaweed	Inorganic Arsenic	In house method FG023 (HPLC-ICP-MS)
Drinking water and mineral water	Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium,Chromium, Cobalt, Copper, Lead, Manganese,Mercury, Molybdenum, Nickel, Selenium,Silver, Thallium, Tin, Uranium, Vanadium, Zinc	In-house method F-3005 In-house method FG020 (ICP-MS)
	Calcium, Iron, Magnesium, Sodium and Potassium	In-house method F-3005 In-house method FG032 (ICP-AES)
	Mercury	In-house method F-3005 In-house method EG038 (By mercury analyzer)
Fish and bottled drinking water	Methyl mercury – quantitative	In house method FG024b (by HPLC-ICP-MS)
Fish	Methyl mercury – screening (by calculation based on the result of total mercury)	In house method FG024a (by ICP-MS)
Bottled drinking water	Mecury (II)	In house method FG024b (by HPLC-ICP-MS)
飲用水(Drinking water)	金屬(Metals):- 砷(Arsenic), 銻(Antimony), 鈹(Beryllium) 鎘(Cadmium), 鉻(Chromium), 銅(Copper), 鉛(Lead), 鎳(Nickel), 汞(Mercury), 銀(Silver), 硒(Selenium), 鉈(Thallium) 鋅(Zinc)	中華人民共和國國家標準 生活飲用水標準檢驗方法 - 金屬指標 GB/T5750.6 – 2006 Section 1.5 (EG020_GB)

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Composition:-	
General foodstuff	- Protein	In-house method FD061(Kjeldahl method)
	- Total fat	In-house method FD020 (Gravimetric method)
	- Moisture content	In-house method FD030 (Gravimetric method)
	- Total ash at 550°C	In-house method FD031 (Gravimetric method)
	- Total dietary fibre	AOAC Official Method 985.29 (2005) (Enzymatic-gravimetric method) (FD035) AOAC Official Method 985.029 (with modification) (by ANKOM Dietary Fiber analyser) (FD036)
	- Saturated fatty acids:- $C_{4:0}$, $C_{6:0}$, $C_{8:0}$, $C_{10:0}$, , $C_{12:0}$, $C_{14:0}$,$C_{15:0}$, $C_{16:0}$ $C_{17:0}$, $C_{18:0}$, $C_{20:0}$, $C_{22:0}$, $C_{24:0}$	AOAC Office Method 996.06 (2010) (Hydrolytic extraction gas chromatography) (By GC/FID) (FP106)
	- Trans fatty acids :- $C_{14:1T}$(9-*trans*), $C_{16:1T}$(9-*trans*), $C_{18:1T}$(total), $C_{18:2TT}$(9,12-*trans*), $C_{18:2T}$(9-*cis*,12-*trans*), $C_{18:2T}$(9-*trans*,12-*cis*), $C_{20:1T}$(11-*trans*), $C_{22:1T}$(13-*trans*)	AOAC Office Method 996.06 (2010) (Hydrolytic extraction gas chromatography) (By GC/FID) (FP106)
	- Sugars: Fructose, glucose and galactose,	In-house method FC005 (By UPLC-RI)
	Fructose, sucrose, maltose and lactose	In-house method FC005 (By UPLC-ELSD)
	- Total sugars content Fructose, glucose, galactose, sucrose, lactose and maltose	In-house method FC005 (By UPLC-ELSD/RI)
	- Phosphorus	In-house method FG026 (By ICP-AES)
	- Cholesterol	In-house method FP107 (By GC/FID, Confirmation by GC/MSD)
	- Vitamin C	In-house method FC006 (by HPLC-FLD)

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Composition:- (cont'd)	
General foodstuff (excluding food containing ethanol and organic acid)	- Energy	In-house method FD042 (By calculation)
	- Carbohydrates	In-house method FD042 (By calculation)
Milk and milk products	- Iodine	In-house method FG022 (By ICP-MS)
一般食品 General foodstuff	成分(Composition):- - 水分(Moisture)	中華人民共和國國家標準 食品安全國家標準/食品中水分的測定 直接乾燥法 GB 5009.3 – 2010 (FD030_GB) Cl. 1-7
	- 灰分 (Ash)	食品安全國家標準/食品中灰分的測定 GB 5009.4 – 2010 (FD031_GB) <不包含> cl.5.3.2
	- 蛋白質 (Protein)	食品安全國家標準/食品中蛋白質的測定 GB 5009.5 – 2010 (FD061_GB)

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Preservatives:-	
General foodstuff	- Benzoic acid and Sorbic Acid,	In-house method FC001 (By UPLC)
	- Salicylic acid, Methyl para-hydroxybenzoate, Ethyl para-hydroxybenzoate and Propyl para-hydroxybenzoate	In-house method FC071 (By UPLC)
	- Benzoic acid, Sorbic Acid, Salicylic acid, Methyl para-hydroxybenzoate, Ethyl para-hydroxybenzoate and Propyl para-hydroxybenzoate	In-house method FC008 (By UPLC)
	- Sulphur dioxide	In-house method FD040 (Qualitative by lead acetate paper) In-house method FD041 (By titrimetric and turbidimetric methods)
	- Boric acid and borates	In-house method FC003A (Qualitative by turmeric paper) In-house method FC003B (Quantitative by ICP-MS)
Meat, milk, meat products and milk products	- Sodium nitrite	In-house method FK057A (By flow injection analysis)
	- Sodium nitrate	In-house method FK058A (By flow injection analysis)
Bakery and confectionery products	- Propionic acid	In-house method FC004 (By UPLC)
	Mycotoxins: -	
Oils, nuts and cereals	- Aflatoxins B_1, B_2, G_1, G_2 and Aflatoxins total (B_1+B_2+G_1+G_2)	In-house method FP313 (Screening and quantitative by UPLC-MS/MS)

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Contaminants:-	
General foodstuff	- Melamine	In-house method FP311 (By LC-MS/MS)
	Veterinary Drug Residues:-	
Fish and shrimp tissues	- Malachite Green - Leucomalachite Green - Gentian Violet - Leucogentian Violet	In-house method FP301 (By LC-MS/MS)
Aquatic products and by-products of Fish	- Malachite Green - Leucomalachite Green	In House Method FP301a (By UPLC-MS/MS)
	- Sum of Malachite Green and Leucomalachite Green	In House Method FP301a (by calculation)
Fish, shrimp and chicken meat	- Fluoroquinolones: Ciprofloxacin Enrofloxacin Danofloxacin Sarafloxacin Difloxacin	In-house method FP324 (By UPLC-MS/MS)
Meat and chicken meat	Free residues of the following: - Salbutamol - Cimaterol - Clenbuterol - Ractopamine - Zilpaterol - Reserpine - Amantadine - Dexamethasone	In-house method FP321 (By UPLC-MS/MS)

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Pesticide residues:-	
Fruit and Vegetables	Cyhalothrin-lambda, Deltamethrin	In-house method FP105 (By GC/MSD)
	Tolylfluanid	In-house method FP317 (Screening and quantitative by UPLC-MS/MS)
	Dichlofluanid	In-house method FP317 (Screening and quantitative by UPLC-MS/MS)
	Acidic pesticides: 2,4-D, MCPA, Triclopyr, 3,5,6-trichloro-2-pyridinol (TCP), Diclofop, Bentazone, 8-hydroxybentazone, 6-hydroxybentazone, (Z)-3-(2-chloro-3,3,3-trifluroro-1-propenyl)-2,2-dimethylcyclopropanecarboxylic acid (lambda-cyhalothric acid), Fluroxypyr, Picloram, Quinclorac, Imazapyr, N-(4-trifluoromethylnicotinoyl)glycine) (TFNG), 4-trifluoromethylnicotinic acid (TFNA), Flonicamid, Bispyribac sodium, Clopyralid, and Fenbutatin oxide	In-house method FP322 (Screening and quantitative by UPLC-MS/MS)
	Flonicamid (sum of flonicamid, TFNA, TFNA-AM and TFNG)	In-house method FP317 & FP322 (By calculation)
	Bentazone (sum of bentazone, 6-hydroxybentazone and 8-hydroxybentazone expressed as bentazone)	In-house method FP322 (By calculation)
	Tefluthrin (sum of tefluthrin and (Z)-3-(2-chloro-3,3,3-trifluroro-1-propenyl)-2,2-dimethylcyclopropanecarboxylic acid)	In-house method FP105 & FP322 (By calculation)
	Triclopyr (sum of triclopyr and 3,5,6-trichloro-2-pyridinol (TCP))	In-house method FP322 (By calculation)

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Pesticide residues:- (cont'd)	
Fruit, vegetables and cereal grains	- Organochlorine pesticides: Acibenzolar-S-methyl, Atrazine, Acetamiprid, Ametryn, Amitraz, Azoxystrobin, Acetochlor, Butafenacil, Boscalid, Bensulfuron methyl, Clethodim, Clodinafop propargyl, Clomazone, Chlorsulfuron, Carfentrazone-ethyl, Clofentezine, Chlorantraniliprole Clothianidin, Diclosulam, Diflubenzuron, Diuron, Dimethomorph (sum of isomers), Fluthiacet methyl,Fomesafen, Fenhexamid, Fluazinam, Forchlorfenuron, Flumiclorac-pentyl, Fenarimol, Fluopicolide, Flufenpyr ethyl, Hexythiazox, Halosulfuron methyl, Linuron, Imidacloprid, Indoxacarb, Molinate, Mandipropamid, Novaluron, Naled, Oxadiazon, Pyridaben, Propazine, Pyraclostrobin, Propyzamide, Propanil, Pyrithiobac sodium, Quizalofop-ethyl, Quinoxyfen, Spirodiclofen, Simazine, Thiacloprid, Terbuthylazine, Thiamethoxam, Teflubenzuron and Zoxamide	In-house method FP315 (Screening and quantitative by UPLC-MS/MS)
	- Organophosphorus pesticides: Azinphos methyl, Coumaphos, Chlorpyrifos, Cadusafos, Dichlorvos, Dimethoate, Dicrotophos, Diazinon, Demeton-S-methyl, Demeton-S, Demeton-S-methylsulphone, Ethoprophos, Edifenphos, Ethion, Fenthion, Fenthion sulphone, Fenamiphos, Fenthion sulphoxide, Fenamiphos sulphoxide, Fenamiphos sulphone, Isocarbophos, Isofenphos methyl, Methamidophos, Malathion, Methidathion, Mevinphos (sum of (E)-mevinphos and (Z)-Mevinphos), Monocrotophos, Oxydemeton methyl,Omethoate, Pirimiphos methyl, Prothiofos,Profenofos, Phosalone, Phoxim, Phorate,Phorate sulphone, Phorate sulphoxide, Phosmet,Phosphamidon, Phenthoate, Terbufos sulphone,Terbufos, Terbufos sulphoxide, Trichlorfon,Tolclofos methyl, Triazophos, Tribufos,Vamidothion, Vamidothion sulfoxide and Dichlorvos(2,2-dichlorovinyl dimethyl phosphate)	In-house method FP315 (Screening and quantitative by UPLC-MS/MS)

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Pesticide residues:- (cont'd)	
Fruit, vegetables and cereal grains (cont'd)	- Organochlorine pesticides: Amitraz (sum of amitraz and N-(2,4-dimethylphenyl)-N'-methylformamidine expressed as N-(2,4-dimethylphenyl)-N'-methylformamidine)	In-house method FP315 (By calculation)
	Indoxacarb (sum of Indoxacarb and its R enantiomer)	In-house method FP315 (By calculation)
	- Organophosphorus pesticides: Fenamiphos (sum of Fenamiphos, Fenamiphos sulphone and Fenamiphos sulphoxide expressed as Fenamiphos)	In-house method FP315 (By calculation)
	Oxydemeton methyl (sum of Oxydemeton methyl, Demeton-S-methyl and Demeton-S-methylsulphone expresses as Oxydemeton methyl)	In-house method FP315 (By calculation)
	- Carbamates: Benfuracarb, Carbosulfan, Carbofuran, Carbaryl, 3-Hydroxycarbofuran, Dinotefuran, Fluometuron, Fenobucarb (BPMC), Isoprocarb, Methiocarb, Methiocarb sulphoxide, Methiocarb sulphone, Oxamyl oxime, Oxamyl, Propamocarb (Propamocarb (free base)) Pirimicarb, Primicarb-desmethyl-formamido, Primicarb-desmethyl, Thiodicarb	In-house method FP315 (Screening and quantitative by UPLC-MS/MS)
	Benfuracarb (sum of Benfurcarb, 3-hydroxycarbofuran and Carbofuran, expressed as Carbofuran)	In-house method FP315 (By calculation)
	Carbofuran (sum of carbofuran and 3-hydroxycarbofuran expressed as carbofuran)	In-house method FP315 (By calculation)
	Methiocarb (sum of Methiocarb, Methiocarb sulphoxide and Methiocarb sulphone expressed as Methiocarb)	In-house method FP315 (By calculation)
	Oxamyl (sum of Oxamyl and Oxamyl oxime expressed as Oxamyl)	In-house method FP315 (By calculation)
	Naled (sum of Naled and 2,2-dichlorovinyl dimethyl phosphate expressed as Naled)	In-house method FP315 (By calculation)

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Pesticide residues:- (cont'd)	
Fruit, vegetables and cereal grains (cont'd)	- Abamectin-B1a, Buprofezin, Benalaxyl, 2-thiocyanomethyl-thio benzothiazole (TCMTB), Chlorimuron ethyl, Carboxin, Cyprodinil, Dodine, Dimethenamid-P, Etofenprox, Ethametsulfuron methyl, Emamectin, Fenamidone, Fenpropimorph, Flutolanil, Flumioxazin, Flufenoxuron, Fluazifop-P-butyl, Famoxadone, Isoprothiolane, Kresoxim methyl, Lactofen, Iodosulfuron-methyl-sodium, Metalaxyl, Metribuzin, Napropamide, Methoxyfenozide, Pyroxsulam, Primisulfuron-methyl, Prometryn, Pyrimethanil, Pymetrozine, Pendimethalin, Pyriproxyfen, Propargite, Spinosyn A, Spinosyn D, Spiroxamine, Sethoxydim, Triflusulfuron methyl, Thiophanate-methyl, Tralkoxydim, Terbutryn, Tebufenozide, Tribenuron-methyl, Triasulfuron, Trifloxystrobin and Trifloxysulfuron	In-house method FP315 (Screening and quantitative by UPLC-MS/MS)
	- Bitertanol, Cyproconazole, Cyazofamid, Carbendazim, Difenoconazole, Diniconazole, Etoxazole, Flusilazole, Fenbuconazole, Fipronil, Fenpyroximate, Imazalil, Metconazole, Myclobutanil, Prochloraz, Paclobutrazol, Prothioconazole-desthio, Propiconazole, Triflumizole, Triadimenol, Thiabendazole, Tricyclazole, Triadimefon, Tebuconazole and Tetraconazole	In-house method FP315 (Screening and quantitative by UPLC-MS/MS)
	- Spinosad (sum of Spinosyn A and Spinosyn D)	In-house method FP315 (By calculation)
	- Triadimenol (sum of Triadimenol and Triadimefon)	In-house method FP315 (By calculation)
	- Triadimefon (sum of Triadimenol and Triadimefon)	In-house method FP315 (By calculation)

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Fruit, vegetables and cereal grains (cont'd)	Pesticide residues:- (cont'd)	
	- Organochlorine pesticides: Aldrin, Dieldrin, Endrin, cis-Chlordane, trans-Chlordane, Oxychlordane, Heptachlor, Heptachlor epoxide, Hexachlorobenzene, Methyl pentachlorophenyl Sulphide (Pentachlorothioanisole/PCAS), Pentachloroaniline, Quintozene (pentachloronitrobenzene), Endrin ketone (Delta-keto endrin), Chlorothalonil, Chlorfenapyr, o,p-DDD, o,p-DDE, Endosulfan I, Endosulfan II, Endosulfan sulphate, Dichlobenil, Methoxychlor, Mirex, Tetradifon, Trifluralin and Vinclozolin Procymidone, Captan, 2,6-dichlorobenzamide, Chlorethoxyfos, Folpet, Methoprene, Butachlor, o, p'-Dicofol, p, p'-Dicofol, Metolachlor	In-house method FP105 (By GC/MSD)
	- Pyrethroid pesticides: Cypermethrin (sum of isomers), Benfluralin Fenvalerate, Bifenthrin (sum of isomers), Cyfluthrins (sum of isomers), Fenpropathrin and Permethrins (sum of isomers)	In-house method FP105 (By GC/MSD)
	Bromopropylate, Chlorpropham, Dicloran, Dimethipin, Diphenylamine, Ethalfluralin, Iprodione, Pendimethalin, Nitrapyrin, and Tecnazene	In-house method FP105 (By GC/MSD)
	Flucythrinate, Fluvalinate and Tefluthrin	In-house method FP105 (By GC/MSD)
	- Chlordane (sum of cis-Chlordane and trans-Chlordane)	In-house method FP105 (By calculation)
	Endosulfan (sum of Endosulfan I, Endosulfan II and Ensosulfan sulphate)	In-house method FP105 (By calculation)
	Dichlobenil (sum of dichlobenil and 2,6-dichlorobenzamide)	In-house method FP105 (By calculation)
	Heptachlor (sum of Heptachlor and Heptachlor epoxide)	In-house method FP105 (By calculation)

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Pesticide residues:- (cont'd)	
Fruit, vegetables and cereal grains (cont'd)	Endrin (sum of Endrin and Endrin ketone)	In-house method FP105 (By calculation)
	Aldrin and Dieldrin (sum of HHDN and HEOD)	In-house method FP105 (By calculation)
	- Pyrethroid pesticides: Esfenvalerate (sum of Fenvalerate isomers)	In-house method FP105 (By calculation)
	Dicofol (sum of o,p' and p,p' isomers)	In-house method FP105 (By calculation)
Fruit, vegetables, except stem vegetables	Ethephon	In-house method FP318 (By UPLC-MS/MS)
Cereal grains, straw and assorted fruits (inedible peel)	Ethephon	In-house method FP318 (By UPLC-MS/MS)
Fruit, vegetables, cereal grains and aquatic products	- Organochlorine pesticides: Hexachlorocyclohexane isomers (alpha-, beta- and delta-HCH), Lindane (gamma-HCH), o,p'-DDT, p,p'-DDT, p,p'-DDE and p,p'-DDD	In-house method FP105 (By GC/MSD)
	- DDT (sum of o,p'-DDT, p,p'-DDT, p,p'-DDE and p,p'-DDD)	In-house method FP105 (By calculation)
	Hexachlorocyclohexane (sum of alpha-HCH, beta-HCH, delta-HCH and Lindane (gamma-HCH))	In-house method FP105 (By calculation)

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Pesticide residues:- (cont'd)	
Fruit, vegetables and cereal grains	- Organochlorine pesticides: Carfentrazone (α,2-dichloro-5-[4-(difluoromethyl)-4,5-dihydro-3-methyl-5-oxo-1H-1,2,4-triazol-1-yl]-4-fluorobenzenepropanoic acid), Carfentrazone-ethyl, Chlorbenzuron, Diclofop-methyl, Fluopyram, Penconazole, Pyridalyl	In-house method FP317 (Screening and quantitative by UPLC-MS/MS)
	Amitraz (sum of amitraz and N-(2,4-dimethylphenyl)-N'-methyl formamidine expressed as N-(2,4-dimethylphenyl)-N'-methylformamidine)	In-house method FP317 (By calculation)
	Carfentrazone-ethyl (sum of Carfentrazone-ethyl and (α,2-dichloro-5-[4-(difluoromethyl)-4,5-dihydro-3-methyl-5-oxo-1H-1,2,4-triazol-1-yl]-4-fluorobenzenepropanoic acid)	In-house method FP317 (By calculation)
	Clodinafop propargyl (sum of Clodinafop propargyl and Clodinafop)	In-house method FP317 (By calculation)
	Indoxacarb (sum of Indoxacarb and its R enantiomer)	In-house method FP317 (By calculation)
	- Carbamates: Aldicarb, Aldicarb sulphone and Aldicarb sulphoxide	In-house method FP317 (Screening and quantitative by UPLC-MS/MS)
	Aldicarb (sum of Aldicarb, Aldicarb sulphone and Aldicarb sulphoxide expressed as Aldicarb)	In-house method FP317 (By calculation)
	- Pyrethroid pesticides: Cyhalothrin (sum of gamma & lambda-cyhalothrin), Cypermethrin and Fenvalerate	In-house method FP317 (Screening and quantitative by UPLC-MS/MS)
	Deltamethrin (sum of Deltamethrin, alpha-R-and trans-deltamethrin ([1R-[1 alpha(R*),3 alpha]]-3-(2,2-dibromoethenyl)-2,2-dimethyl-cyclopropane carboxylic acid, cyano(3-phenoxyphenyl)methyl ester and [1R-[1alpha(S*),3beta]]-3-(2,2-dibromoethenyl)-2,2-dimethyl-cyclopropanecarboxylic acid, cyano(3-phenoxyphenyl)methyl ester)	In-house method FP317 (By calculation)

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Pesticide residues:- (cont'd)	
Fruit and vegetables and cereal grains	- Organochlorine pesticides: Clodinafop, Clodinafop propargyl, Indoxacarb, Quizalofop, Quizalofop ethyl	In-house method FP317 (Screening and quantitative by UPLC-MS/MS)
	Quizalofop ethyl (sum of Quizalofop and Quizalofop ethyl expressed as Quizalofop-p ethyl ester)	In-house method FP317 (By calculation)
	Ethoxyquin	In-house method FP317 (Screening and quantitative by UPLC-MS/MS)
	- Organophosphorus pesticides: Fenthion, Fenthion sulphone, Fenthion sulphoxide, Fenthoxon, Fenthoxon sulphone, Fenthoxon sulphoxide, N-desethyl-phosphamidon, Phorate, Phorate oxon, Phorate oxon sulphone, Phorate oxon sulphoxide, Phorate sulphone, Phorate sulphoxide, Phosphamidon,	In-house method FP317 (Screening and quantitative by UPLC-MS/MS)
	Fenthion (sum of Fenthion, Fenthion sulphone, Fenthion sulphoxide, Fenthoxon, Fenthoxon sulphone, Fenthoxon sulphoxide expressed as Fenthion)	In-house method FP317 (By calculation)
	Phorate (sum of Phorate, Phorate sulphone, Phorate sulphoxide, Phorate oxon, Phorate oxon sulphone, Phorate oxon sulphoxide expressed as Phorate)	In-house method FP317 (By calculation)
	Phosphamidon (sum of Phosphamidon and N-desethyl-phosphamidon)	In-house method FP317 (By calculation)
	Terbufos, Terbufos-oxon, Terbufos-oxon-sulphone, Terbufos-oxon-sulphoxide, Terbufos sulphone, Terbufos sulphoxide	In-house method FP317 (Screening and quantitative by UPLC-MS/MS)
	Terbufos (sum of Terbufos, its oxygen analogue, and their sulphoxides and sulphones, expressed as Terbufos)	In-house method FP317 (By calculation)
	- Pyrethroid pesticides: Esfenvalerate (sum of Fenvalerate isomers)	In-house method FP317 (Screening and quantitative by UPLC-MS/MS)

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Pesticide residues:- (cont'd)	
Fruit and vegetables and cereal grains (cont'd)	Carbendazim, Bentazone, Bromacil, Cycloate, Desmedipham, Flonicamid, Fluridone, Flutriafol, Fosthiazate, Imazethapyr, Isoxaben, Meptyldinocap-phenol (2,4-DNOP), Metaflumizone, Metrafenone, Naptalam, Norflurazon, Norflurazon-desmethyl(4-chloro-5-(amino)-2-(alpha,alpha,alpha-trifluoro-m-tolyl)-3(2H)-pyridazinone), Oryzalin, Phenmedipham, Spinetoram, Spiromesifen metabolite(4-hydroxy-3-(2,4,6-trimethylphenyl)-1-oxaspiro[4,4]non-3-en-2-one), Spirotetramat, Spirotetramat-enol (3-(2,5-dimethylphenyl)-4-hydroxy-8-methoxyl-1-azaspiro[4,5]dec-3-en-2-one), TFNA-AM (4-(trifluormethyl) nicotinamide), Topramezone and Uniconazole	In-house method FP317 (Screening and quantitative by UPLC-MS/MS)
	Carbendazim (sum of Benomyl, Carbendazim and Thiophanate methyl, expressed as carbendazim)	In-house method FP317 (By calculation)
	Norflurazon (sum of Norflurazon and 4-chloro-5-(amino)-2-(alpha,alpha,alpha-trifluoro-m-tolyl)-3(2H)-pyridazinone	In-house method FP317 (By calculation)
	Spiromesifen (sum of Spiromesifen and 4-hydroxy-3-(2,4,6-trimethylphenyl)-1-oxaspiro[4,4]non-3-en-2-one, expressed as Spiromesifen)	In-house method FP317 (By calculation)
	Spirotetramat (sum of Spirotetramat and 3-(2,5-dimethylphenyl)-4-hydroxy-8-methoxy-1-azaspiro[4,5]dec-3-en-2-one, expressed as Spirotetramat	In-house method FP317 (By calculation)
	- Triazine pesticides: Atrazine-desethyl-desisopropyl (2,4-diamino-6-chloro-s-triazine), Atrazine, Atrazine-desisopropyl (2-amino-4-chloro-6-ethylamino-s-triazine) and Simazine	In-house method FP317 (Screening and quantitative by UPLC-MS/MS)
	Simazine (sum of Simazine, 2-amino-4-chloro-6-ethylamino-s-triazine and 2,4-diamino-6-chloro-s-trazine)	In-house method FP317 (By calculation)

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Pesticide residues:- (cont'd)	
Fruit and vegetables and cereal grains (cont'd)	Acifluorfen, Alachlor, Anilazine, Bioresmethrin, Bromoxynil, Butylate, Chlortoluron, Cinerin I, Cinerin II, Cymoxanil, Deltamethrin, Difenzoquat, Dimethenamide, Florasulam, Fluazifop, Fluazifop butyl, Flubendiamide, Fludioxonil, Flumetsulam, Formetanate hydrochloride, Imazosulfuron, Ipconazole, Isoprothiolane, Jasmolin I, Jasmolin II, Mepronil, Mesosulfuron methyl, Mesotrione, Nicosulfuron, Orthosulfamuron, Oxyfluorfen, Penoxsulam, Piperonyl butoxide, Pretilachlor, Prosulfuron, Pyrethrin I, Pyrethrin II, Rimsulfuron, Semiamitraz, Spiromesifen, Thiencarbazone methyl, Thifensulfuron methyl, Thiocyclam, Thiophanate-methyl, Triticonazole, Semiamitraz(N-(2,4-dimethylphenyl)-N'-methylformamidine)	In-house method FP317 (Screening and quantitative by UPLC-MS/MS)
	Dimethenamid-P (sum of Dimethenamid-P and its enantiomer)	In-house method FP317 (By calculation)
	Fluazifop butyl (sum of Fluazifop butyl and Fluazifop)	In-house method FP317 (By calculation)
	Fluazifop-p-butyl (sum of Fluazifop butyl and Fluazifop)	In-house method FP317 (By calculation)
	Pyrethrins (sum of Pyrethrin I, Pyrethrin II, Cinerin I, Cinerin II, Jasmolin I and Jasmolin II)	In-house method FP317 (By calculation)
	- Carbamates: 3-Hydroxycarbofuran, Aldicarb, Aldicarb sulphone, Aldicarb sulphoxide, Bendiocarb, Butocarboxim, Butocarboxim sulfone, Butocarboxim sulfoxide, Carbaryl, Carbofuran, Ethiofencarb, Fenobucarb (Baycarb), Furathiocarb, Isoprocarb, Methiocarb, Methiocarb sulphone, Methiocarb sulphoxide, Methomyl, Methomyl oxime, Metolcarb, Oxamyl, Pirimicarb, Promecarb, Propoxur (Baygon), Thiodicarb, Tri-allate	In-house method FP319 (Screening and quantitative by UPLC-MS/MS)

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Pesticide residues:- (cont'd)	
Fruit and vegetables and cereal grains (cont'd)	Aldicarb (sum of Aldicarb, Aldicarb sulphone and Aldicarb sulphoxide expressed as Aldicarb)	In-house method FP319 (By calculation)
	Carbofuran (sum of carbofuran and 3-hydroxycarbofuran expressed as carbofuran)	In-house method FP319 (By calculation)
	Methiocarb (sum of Methiocarb, Methiocarb sulphoxide and Methiocarb sulphone Expressed as Methiocarb	In-house method FP319 (By calculation)
	Methomyl (sum of Methomyl and Thiodicarb expressed as Methomyl)	In-house method FP319 (By calculation)
	Acephate (Orthene), Azinphos-ethyl, (Guthion ethyl), Azinphos-methyl (Guthion), Bromophos-ethyl, Bromophos (Bromophos- methyl), Carbophenothion, Chlorfenvinphos, Chlorpyrifos, Chlorpyrifos methyl, Coumaphos, Crufomate (Ruelene), Demeton-S, Demeton-S-methyl (Metasystox), Demeton-S-methyl sulphone, (Dioxydemeton-S-methyl), Diazinon, Dichlorvos, Dicrotophos, Dimethoate, Disulfoton, Disulfoton sulfone, Disulfoton sulfoxide (Oxydisulfoton), Edifenphos, EPN, Ethion, Ethoprophos (Prophos, Mocap), Famphur, Fenamiphos, Fenamiphos sulphone, Fenamiphos sulphoxide, Fenchlorphos (Ronnel), Fenitrothion, Fensulfothion, Fenthion, Fenthion sulphone, Fenthion sulphoxide, Fonofos (Dyfonate), Iodofenphos(Jodfenphos), Isocarbophos, Isofenphos, Malaoxon, Malathion, Methamidophos (Monitor), Methidathion, Mevinphos (sum of (E)-mevinphos and (Z)-Mevinphos), Monocrotophos, Omethoate,Paraoxon (Paraoxon ethyl), Paraoxon methyl, Parathion (Parathion ethyl), Parathion methyl, Phenthoate, Phorate,Phorate sulphone, Phorate sulphoxide, Phosalone (Zolone), Phosmet (Imidan), Phosphamidon, Pirimiphos ethyl, Pirimiphos-methyl, Profenofos, Prothiofos (Tokuthion),Pyrazophos Quinalphos, Sulfotep (TEDP),Terbufos, Tetrachlorvinphos (Rabon, Stirofos), Thiometon, Triazophos,Trichlorfon (Dylox)	In-house method FP319 (Screening and quantitative by UPLC-MS/MS)
	Fenamiphos (sum of Fenamiphos, Fenamiphos sulphone and Fenamiphos sulphoxide expressed ad Fenamiphos)	In-house method FP319 (By calculation)

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Microbiological examination:-	
General foodstuff	Aerobic Plate Count (35°C for general foodstuff) (32°C for milk)	US FDA Bacteriological Analytical Manual Online (BAM online) Ch. 3, January 2001 (Conventional Plate Count Method) (FM001)
	Total Coliform Count	US FDA Bacteriological Analytical Manual Online (BAM online) Ch. 4, October 2020 (MPN Method) (FM003)
	Faecal Coliform Count	US FDA Bacteriological Analytical Manual Online (BAM online) Ch. 4, October 2020 (MPN Method) (FM004)
	Yeast and Molds Count	US FDA Bacteriological Analytical Manual Online (BAM online) Ch. 18, April 2001 (Pour Plate Method using Plate Count Agar with Chloramphenicol) (FM005)
	Salmonella spp.	US FDA Bacteriological Analytical Manual Online (BAM Online) Ch. 5, May 2024 (FM007)
	E. coli Count	AOAC Official Method 991.14 (2005) (Dry Rehydratable Film Method) (FM102)
	Coliform Count	AOAC Official Method 991.14 (2005) (Dry Rehydratable Film Method) (FM103)
	Enterobacteriaceae	AOAC Official Method 2003.01 (2006) (3M Petrifilm Method) (FM117)

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Microbiological examination:-	
General foodstuff	*Staphylococcus aureus* and other Coagulase positive staphylococci	3M™ Petrifilm™ Staph Express System AFNOR Validation Certificate No. 3M-01/09-04/03A and 3M-01/9-04/03B (FM106B)
	- *E. coli* (serotype O157:H7)	US FDA Bacteriological Analytical Manual Online (BAM Online) Ch. 4A, July 2020 (Cultural isolation, biochemical and serological confirmation Method) (FM022)
	Listeria monocytogenes	US FDA Bacteriological Analytical Manual Online (BAM Online) Ch. 10, April 2022, Detection and enumeration (Direct plating method) (FM008 & FM008a)
	- Thermotolerant *Campylobacter* species	Public Health England (2018) Detection and enumeration of Campylobacter species Microbiology services. Food, Water & Environmental Microbiology Standard Method FNES15 (F21), Version 4. (FM021)
	- *Vibrio cholerae*	US FDA Bacteriological Analytical Manual Online (BAM online), Chapter 9, May 2004 (FM011)
	- *Bacillus cereus* group	US FDA Bacteriological Analytical Manual Online (BAM online), Chapter 14, January 2012 (FM009)
	- *Bacillus cereus*	US FDA Bacteriological Analytical Manual Online (BAM Online) Ch. 14, October 2020 (FM026)
	- *Clostridium perfringens*	ISO 15213-2:2023 (FM027)

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Microbiological examination:- (cont'd)	
General foodstuff	- Aerobic Plate Count (菌落總數)	食品安全國家標準 食品微生物學檢驗 GB 4789.2-2022 (FM001_GB)
	- *Salmonella spp.* (沙門氏菌)	食品安全國家標準 食品微生物學檢驗 GB 4789.4-2024 (FM007_GB)
General foodstuff, pet food	- Aerobic colony count (30ºC for 2 or 3 days)	3M™ Petrifilm™ Aerobic Count Plate AFNOR Validation Certification No. 3M 01/01-09/89 (FM024)
General foodstuff and animal feed including pet food and animal feeding	- Yeast and Mold Count (25ºC for 2 - 3 days)	3M™ Rapid Yeast and Mold Petrifilm™ AFNOR Validation Certification No. 3M 01/13-07/14 (FM025)
Selected Types of Processed and Prepared Foods	*Staphylococcus aureus*	AOAC Official Method 2003.07 (2005) (3M Petrifilm Method) (FM106)
Selected Dairy Foods	*Staphylococcus aureus*	AOAC Official Method 2003.08 (2005) (3M Petrifilm Method) (FM106)
Selected Meat, Seafood and Poultry	*Staphylococcus aureus*	AOAC Official Method 2003.11 (2005) (3M Petrifilm Method) (FM106)
Selected Dairy Foods	*Staphylococcus aureus*	AOAC Official Method 2003.08 (2005) (3M Petrifilm Method) (FM106)
Selected Meat, Seafood and Poultry	*Staphylococcus aureus*	AOAC Official Method 2003.11 (2005) (3M Petrifilm Method) (FM106)
General foodstuff, Shellfish and Shellfish Meats	*Escherchia coli*	US FDA Bacteriological Analytical Manual Online (BAM online) Ch. 4, October 2020 (MPN Method) (FM002)

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Microbiological examination:- (cont'd)	
Water, ice	- Heterotrophic plate count (Colony count at 35°C) (Colony count at 37°C)	APHA 24e 9215A & B (EM001)
Water exclude natural mineral water, ice	- *E. coli*	DoE (1983) The Bacteriological Examination of Drinking Water Supplies, 1982 Sections 7.8 and 7.9 (Membrane Filtration Procedure: Section 7.8, 7.9.4.2 Bacterial Confirmation: Section 7.9.4.4 and urease test (Appl. Environ. Microbiol. 29, p826-833) (EM002)
	- Total Coliform	DoE (1983) The Bacteriological Examination of Drinking Water Supplies, 1982 Sections 7.8 and 7.9 (Membrane Filtration Procedure: Section 7.8, 7.9.4.1 Bacterial Confirmation: Section 7.9.4.3) (EM003)
Water	- *Pseudomonas aeruginosa*	ISO 16266:2006 (E) (Membrane filtration) (EM009) BS EN ISO 16266:2008 (EM009)
	微生物檢驗: Microbiological examination:-	
飲用水 (Drinking water)	- 菌落總數(Standard plate-count bacteria)	中華人民共和國國家標準 生活飲用水標準檢驗方法 - 第 12 部分: 微生物指標 GB/T5750.12 - 2023 (EM001_GB)

ALS Technichem (HK) Pty Limited

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街 1-3 號忠信針織中心 11 樓

Pharmaceutical Products 藥物		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Microbiological examination:-	
Purified water	- Enumeration of Total aerobic microbial count	British Pharmacopoeia 2023 Membrane filtration) (EM001M)

Veolia Environmental Services (Hong Kong) Limited - WENT Environmental Laboratory (WENTLAB)
威立雅環境服務(香港)有限公司 - 新界西環保實驗室

ADDRESS : West New Territories Landfill Site, Lung Kwu Tan, Nim Wan, Tuen Mun, Hong Kong
地址 香港屯門稔灣龍鼓灘路新界西堆填區

Postal Address: 40/F, One Taikoo Place, Taikoo Place, 979 King's Road, Quarry Bay, Hong Kong
郵寄地址:香港鰂魚涌英皇道 979 號太古坊太古坊一座 40 樓

ENQUIRY : Mr CHAN Yuen-kei, Compliance Manager
查詢 陳元基先生

TELEPHONE : 2472 3455
電話

FAX : 2472 3306
傳真

E-MAIL : gary.chan2@veolia.com
電郵

CLIENTELE : In-house laboratory, normally not available for public testing
服務對象 內部實驗所，通常只提供內部服務

Veolia Environmental Services (Hong Kong) Limited - WENT Environmental Laboratory (WENTLAB)
威立雅環境服務(香港)有限公司 - 新界西環保實驗室

ADDRESS **地址**	:	West New Territories Landfill Site, Lung Kwu Tan, Nim Wan, Tuen Mun, Hong Kong 香港屯門稔灣龍鼓灘路新界西堆填區
ACCREDITED TEST CATEGORY **認可測試類別**	:	Environmental Testing 環境測試

Veolia Environmental Services (Hong Kong) Limited - WENT Environmental Laboratory (WENTLAB)
威立雅環境服務(香港)有限公司 - 新界西環保實驗室
West New Territories Landfill Site, Lung Kwu Tan, Nim Wan, Tuen Mun, Hong Kong
香港屯門稔灣龍鼓灘路新界西堆填區

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Water and Wastewater	Trace Metals :-	
	- Sample Preparation	APHA 18e 3030E
	- Antimony, Arsenic, Beryllium, Boron, Barium, Calcium, Cadmium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Nickel, Potassium, Sodium, Selenium, Thallium, Vanadium, Zinc	In House Method SOP A27
	- Silver (not including wastewater matrix)	In House Method SOP A27a
	Organic Pollutants :-	
	- Chemical Oxygen Demand	ASTM D 1252-88 B APHA 18e 5220 D

China Dragon Inspection and Certification (H.K.) Ltd.
中龍檢驗認證（香港）有限公司

ADDRESS 地址	:	G/F-2/F, Block A, 50 Fuk Hi Street, Yuen Long Industrial Estate, Yuen Long, New Territories, Hong Kong 香港新界元朗工業邨福喜街50號A座地下-二樓
ENQUIRY 查詢	:	Mr Ringo LEE, Customer Service Manager 李向榮先生，客戶服務部經理
TELEPHONE 電話	:	2675 0606
FAX 傳真	:	2675 9737
E-MAIL 電郵	:	enquiry@cdichk.com
CLIENTELE 服務對象	:	Public 公眾

China Dragon Inspection and Certification (H.K.) Ltd.
中龍檢驗認證（香港）有限公司

ADDRESS **地址**	:	G/F-2/F, Block A, 50 Fuk Hi Street, Yuen Long Industrial Estate, Yuen Long, New Territories, Hong Kong 香港新界元朗工業邨福喜街 50 號 A 座地下至 2 樓
ACCREDITED TEST CATEGORY **認可測試類別**	:	Testing Required by the China Compulsory Certification System (CCC) 中國強制性產品認證制度規定的檢測 Chemical Testing 化學測試 Food 食品 Toys and Children's Products 玩具及兒童產品

China Dragon Inspection and Certification (H.K.) Ltd.
中龍檢驗認證（香港）有限公司

G/F-2/F, Block A, 50 Fuk Hi Street, Yuen Long Industrial Estate, Yuen Long, New Territories, Hong Kong
香港新界元朗工業邨福喜街 50 號 A 座地下至 2 樓

Testing Required by the China Compulsory Certification System (CCC) 中國強制性產品認證制度規定的檢測

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術	
Toys and children's products 兒童用品			
- Toys *(2202)* - 玩具 *(2202)*			
- Plastic toys ***<Excluding the following>*** - toys containing gas - liquid-filled toys - toys containing explosive - imitation weapon toys - chemical toys - cosmetic toys - toys with direct food contact	All required tests as specified in CNCA-C22-02: 2020	GB 6675.1-2014 GB 6675.2-2014 + Amendment 1 GB 6675.3-2014 GB 6675.4-2014	.vs. .vs. .vs. .vs.
- 塑膠玩具類產品 ***<不包括>*** - 含氣體玩具 - 液體填充玩具 - 含易爆物質玩具 - 仿真武器玩具 - 化學遊戲玩具 - 玩具化妝品 - 與食品直接接觸的玩具	CNCA-C22-02: 2020 有關規定的所有檢測	GB 6675.1-2014 GB 6675.2-2014 + 第 1 號修改單 GB 6675.3-2014 GB 6675.4-2014	.vs. .vs. .vs. .vs.

China Dragon Inspection and Certification (H.K.) Ltd.
中龍檢驗認證（香港）有限公司

G/F-2/F, Block A, 50 Fuk Hi Street, Yuen Long Industrial Estate, Yuen Long, New Territories, Hong Kong
香港新界元朗工業邨福喜街 50 號 A 座地下至 2 樓

Testing Required by the China Compulsory Certification System (CCC) 中國強制性產品認證制度規定的檢測

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術	
Toys and children's products (cont'd) 兒童用品（續上）			
- Toys *(2202)* (cont'd) - 玩具 *(2202)*（續上）			
- Metal toys	All required tests as specified in	GB 6675.1-2014	.vs.
<Excluding the following>	CNCA-C22-02: 2020	GB 6675.2-2014 + Amendment 1	.vs.
- toys containing gas		GB 6675.3-2014	.vs.
- liquid-filled toys		GB 6675.4-2014	.vs.
- toys containing explosive			
- imitation weapon toys			
- chemical toys			
- cosmetic toys			
- toys with direct food contact			
- 金屬玩具類產品	CNCA-C22-02: 2020	GB 6675.1-2014	.vs.
<不包括>	有關規定的所有檢測	GB 6675.2-2014 + 第 1 號修改單	.vs.
- 含氣體玩具		GB 6675.3-2014	.vs.
- 液體填充玩具		GB 6675.4-2014	.vs.
- 含易爆物質玩具			
- 仿真武器玩具			
- 化學遊戲玩具			
- 玩具化妝品			
- 與食品直接接觸的玩具			

China Dragon Inspection and Certification (H.K.) Ltd.
中龍檢驗認證（香港）有限公司

G/F-2/F, Block A, 50 Fuk Hi Street, Yuen Long Industrial Estate, Yuen Long, New Territories, Hong Kong
香港新界元朗工業邨福喜街 50 號 A 座地下至 2 樓

Chemical Testing 化學測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術	
Plastics	Cadmium content	European Council Directive 91/338/EEC	.vs.
		The Netherlands Chemical Substance Act Cadmium Decree 1999, no. 149	.vs.
		The UK Environmental Protection (Control on Injurious Substances) No. 2 Regulations 1993 No. 1643	.vs.
		The Sweden Chemical Products Ordinance on Cadmium (SFS 1998 : 944)	.vs.
		The Danish Statutory Order No. 1199 of December 23, 1992 on the prohibition of sale, import and manufacture of cadmium - containing products	.vs.
		Regulation (EC) No. 1907/2006 on REACH Annex XVII Item No 23 as amended by Commission Regulation (EC) No. 552/2009	.vs.
		Test methods for compliance testing: EN 1122 : 2001, Method B (wet decomposition)	.vs.

China Dragon Inspection and Certification (H.K.) Ltd.
中龍檢驗認證（香港）有限公司

G/F-2/F, Block A, 50 Fuk Hi Street, Yuen Long Industrial Estate, Yuen Long, New Territories, Hong Kong
香港新界元朗工業邨福喜街 50 號 A 座地下至 2 樓

Food 食品			
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術	
	Toxicological tests :-		
Food containers (ceramic ware)	- leachable lead and cadmium	AOAC Official Methods 25.024 - 25.027 (1984)	.vs.
		US FDA Compliance Policy Guides 7117.06 (2005) and 7117.07 (2005)	.vs.
		Test procedures for compliance testing:-	
		AOAC Official Methods 973.32 (2005)	.vs.
		AOAC Official Methods 973.82 (2005)	.vs.
		ASTM C738-94 (Reapproved 2006)	.vs.
		European Communities Council Directive 84/500/EEC	.vs.
		Test procedures for compliance testing:-	
		Council Directive 84/500/EEC & Annex I & II	.vs.
		Commission Directive 2005/31/EC	.vs.
		DIN EN 1388-1: 1996	.vs.
		EN 1388-1: 1995	.vs.
		DIN 51031: 1986 & DIN 51032: 1986	.vs.
		UK The Ceramic Ware (Safety) Regulations SI 1647: 1988	.vs.
		Test procedures for compliance testing:-	
		BS 6748: 1986	.vs.
		UK The Ceramic Ware (Safety) Regulations SI 1179: 2006	.vs.
		Test procedures for compliance testing:-	
		Council Directive 84/500/EEC & Annex I & II	.vs.
		Commission Directive 2005/31/EC	.vs.
		Canada Hazardous Products (Glazed Ceramics & Glassware) Regulation, SOR/98-176, 19 March 1998 with amendment October 2005	.vs.
		Test procedures for compliance testing:-	
		Canada Hazardous Products (Glazed Ceramics & Glassware) Regulation, SOR/98-176, 19 March 1998 & the attached Schedule	.vs.
		ISO 6486/1 - 1981 & ISO 6486/1 - 1999	.vs.
		ISO 6486/2 - 1981 & ISO 6486/2 - 1999	.vs.

China Dragon Inspection and Certification (H.K.) Ltd.
中龍檢驗認證（香港）有限公司

G/F-2/F, Block A, 50 Fuk Hi Street, Yuen Long Industrial Estate, Yuen Long, New Territories, Hong Kong
香港新界元朗工業邨福喜街 50 號 A 座地下至 2 樓

Food 食品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術	
	Toxicological tests :- (cont'd)		
Food containers (glass ceramic ware & glassware)	- leachable lead and cadmium	ISO 6486/1 - 1999 ISO 6486/2 - 1999	.vs. .vs.
Food containers (glass ceramic ware, glassware, and vitreous enamel ware)	- leachable lead and cadmium	BS 6748: 1986+A1: 2011	.vs.
Food containers (enameled & ceramic cookware)	- leachable lead and cadmium	AOAC Official Methods 25.016 - 25.023 (1984) AOAC Official Methods 984.19 (2000)	.vs. .vs.
Food containers (Ceramic cookware)	- leachable lead and cadmium	ISO 8391/1 - 1986 ISO 8391/2 - 1986	.vs. .vs.
Food containers (silver-plated hollowware) (for adult, infant and children)	- leachable lead	US FDA Compliance Policy Guide 7117.05 (2005) *Test procedures for compliance testing:-* AOAC Official Methods 973.32 (2005) AOAC Official Methods 973.82 (2005) ASTM C738-94 (Reapproved 2006)	.vs. .vs. .vs. .vs.

China Dragon Inspection and Certification (H.K.) Ltd.
中龍檢驗認證（香港）有限公司

G/F-2/F, Block A, 50 Fuk Hi Street, Yuen Long Industrial Estate, Yuen Long, New Territories, Hong Kong
香港新界元朗工業邨福喜街 50 號 A 座地下至 2 樓

Food 食品			
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術	
	Characteristic of oil:-		
Vegetable oil	- Acid value	ISO 660: 2009 (Cold solvent method using indicator)	.vs.
	- Peroxide value	AOAC Official Methods 965.33 (2000)	.vs.
	Chemical composition : -		
General foodstuff	- Ash	In-house Method FD-ASH (By Gravimetric method)	.vs.
	- Moisture content	In-house Method FD-MOISTURE (By Gravimetric method)	.vs.
	Preservatives:-		
	- Sulphur dioxide	In-house method FD-SO2-P (By lead acetate paper)	.vs.
	- Sulphur dioxide	In-house method FD-SO2-TG (By Titrimetric method and confirmation by Gravimetric method)	.vs.
	- Boric acid	In-house Method FD-BORIC ACID (By ICP-OES)	.vs.
	- Benzoic acid - Sorbic acid - Salicylic acid - Methyl para-hydroxybenzoate - Ethyl para-hydroxybenzoate - Propyl para-hydroxybenzoate	In-house Method FD-6PREV (By HPLC-DAD)	.vs.

China Dragon Inspection and Certification (H.K.) Ltd.
中龍檢驗認證（香港）有限公司

G/F-2/F, Block A, 50 Fuk Hi Street, Yuen Long Industrial Estate, Yuen Long, New Territories, Hong Kong
香港新界元朗工業邨福喜街 50 號 A 座地下至 2 樓

Toys and Children's Products 玩具及兒童產品			
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術	
	Chemical tests :-		
Toys – paints and other similar surface coating materials	- Total lead content	ASTM F963-17 Cl. 4.3.5.1 (1) *Test procedures for compliance testing:-* CPSC Test method: CPSC-CH-E1003-09.1 Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings, February 25, 2011 ***<Excluding the following>*** Composite testing	.vs. .vs.
	- Migration of the elements Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	ASTM F963-17 Cl. 4.3.5.1 (2) *Test procedures for compliance testing:-* ASTM F963-17 Cl. 8.3.2 – 8.3.4	.vs. .vs.
Toys – substrate materials (excluding children's jewelry, glass and ceramic materials)	- Total lead content	ASTM F963-17 Cl. 4.3.5.2 (2)(a) *Test procedures for compliance testing:* CPSC Test method: CPSC-CH-E1001-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Children's Metal Products (Including Children's Metal Jewelry), Nov 15, 2012 ***<Excluding the following>*** XRF spectrometry *Test procedures for compliance testing:* CPSC Test method: CPSC-CH-E1002-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Non-Metal Children's Products, Nov 15, 2012 ***<Excluding the following>*** Ceramics, Glass, Crystal and other Siliceous Materials XRF spectrometry	.vs. .vs. .vs.
Toys – substrate materials (excluding children's jewelry)	- Migration of the elements Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	ASTM F963-17 Cl. 4.3.5.2 (2)(b) *Test procedures for compliance testing:-* ASTM F963-17 Cl. 8.3.5	.vs. .vs.

China Dragon Inspection and Certification (H.K.) Ltd.
中龍檢驗認證（香港）有限公司

G/F-2/F, Block A, 50 Fuk Hi Street, Yuen Long Industrial Estate, Yuen Long, New Territories, Hong Kong
香港新界元朗工業邨福喜街 50 號 A 座地下至 2 樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術	
	Chemical tests :- (cont'd)		
		US Public Law 110 -314 Consumer Product Safety Improvement Act 2008	.vs.
		US 16 CFR Part 1303	.vs.
Toys and other articles intended for use by children – paint and other similar surface-coating materials	- Total lead content	*Test procedures for compliance testing:-* CPSC Test Method: CPSC-CH-E1003-09.1 Standard Operating Procedure for Determining Lead (Pb) in Paint & other similar Surface Coatings, February 25, 2011 ***<Excluding the following>*** Composite testing	.vs.
		US Public Law 110 -314 Consumer Product Safety Improvement Act 2008	.vs.
Children's metal products	- Total lead content	*Test procedures for compliance testing*: CPSC Test Method: CPSC-CH-E1001-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Children's Metal Products (Including Children's Metal Jewelry), Nov 15, 2012 ***<Excluding the following>*** XRF spectrometry	.vs.
Plastics, polymers and other non-siliceous materials used in toys and children's products	- Total lead content	*Test procedures for compliance testing*: CPSC Test Method: CPSC-CH-E1002-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Non-Metal Children's Products , Nov 15, 2012 ***<Excluding the following>*** Ceramics, Glass and Crystal and other Siliceous Materials XRF spectrometry	.vs.

China Dragon Inspection and Certification (H.K.) Ltd.
中龍檢驗認證（香港）有限公司

G/F-2/F, Block A, 50 Fuk Hi Street, Yuen Long Industrial Estate, Yuen Long, New Territories, Hong Kong
香港新界元朗工業邨福喜街 50 號 A 座地下至 2 樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術	
	Chemical tests :- (cont'd)		
Toys – coatings of paint on pencils, pen and brushes; and substances used in pencils, crayons, chalk and other similar articles	- Soluble arsenic, antimony, barium, cadmium, hexavalent chromium, lead, mercury and their soluble compounds	UK The Pencils and Graphic Instruments (Safety) Regulations SI 2406: 1998 *Test procedures for chromium (VI) content:-* EN 420: 1994 Section 6.1	.vs. .vs.
Toys (applicable to surface coating materials only)	- Total lead content	Canada Surface Coating Materials Regulations (SOR/2010-224 of October 2010) *Test procedures for total lead content:-* In House Method CH-E1003-09M Canada Consumer Product Containing Lead (Contact with Mouth) Regulations (SOR/2010-273 of November 2010) *Test procedures for total lead content:-* In House Method CH-E1003-09M	.vs. .vs. .vs. .vs.
Toys, equipment and other products for use by a child in learning or play that have had a surface coating materials applied to them	- Dissolved compounds of antimony, arsenic, barium, cadmium and selenium - Total lead content	Canada Hazardous Products Act (R.S. 1985, c. H-3) Schedule I Part I, Item 9 with amendment 21 October 2010 *Test procedures for compliance testing*: In House Method METAL-S.CANA In House Method CH-E1003-09M	.vs. .vs. .vs.

China Dragon Inspection and Certification (H.K.) Ltd.
中龍檢驗認證（香港）有限公司

G/F-2/F, Block A, 50 Fuk Hi Street, Yuen Long Industrial Estate, Yuen Long, New Territories, Hong Kong
香港新界元朗工業邨福喜街 50 號 A 座地下至 2 樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術	
	Chemical tests (cont'd):-		
All toys	- Migration of the elements Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	UK Toys (Safety) Regulations1995 Schedule 2 Section II, par.3.2 in conjunction with EN 71-3: 1994 & A1: 2000	.vs.
		BS EN71-3:1995/BS 5665: Part 3: 1995 incorporating Amendment No. 1 and Corrigendum No. 1	.vs.
		EN 71-3: 1994 & A1: 2000	.vs.
		ISO 8124.3: 2010 + A1: 2014	.vs.
		AS/NZS 8124.3: 2012 + A1: 2016	.vs.
All toys ***<Excluding the following>*** Finger paints	- Migration of the elements Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	ISO 8124-3: 2020 (for dewaxing: Method A only) ISO 8124.3: 2010 + A1: 2014 + A2: 2018 AS/NZS ISO 8124.3: 2021 (for dewaxing: Method A only)	.vs. .vs. .vs.
Finger paints	- Migration of the elements Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	ISO 8124-3: 2020 (for dewaxing: Method A only) ISO 8124.3: 2010 + A1: 2014 + A2: 2018 AS/NZS ISO 8124.3: 2021 (for dewaxing: Method A only)	.vs. .vs. .vs.
玩具	- 特定元素的遷移 銻，砷，鋇，鎘，鉻，鉛，汞，硒	GB 6675.1-2014 Cl. 5.3.3 *Test Procedures for compliance testing:* GB 6675.4-2014	.vs. .vs.
Toys made of plastic 含塑料的玩具	Phthalates: 鄰苯二甲酸酯: - Dibutyl Phthalate (DBP) 鄰苯二甲酸二丁酯 - Benzyl Butyl Phthalate (BBP) 鄰苯二甲酸丁苄酯 - Bis (2-ethylhexyl) phthalate (DEHP) 鄰苯二甲酸二(2-乙基)己酯 - Di-n-octyl phthalate (DNOP) 鄰苯二甲酸二正辛酯 - Di-iso-nonyl phthalate (DINP) 鄰苯二甲酸二異壬酯 - Di-iso-decyl phthalate (DIDP) 鄰苯二甲酸二異癸酯	GB 6675.1-2014 Cl. 5.3.7 *Test Procedures for Compliance testing:* GB/T 22048-2015 Method A (Internal standard calibration)	.vs. .vs.

China Dragon Inspection and Certification (H.K.) Ltd.
中龍檢驗認證（香港）有限公司

G/F-2/F, Block A, 50 Fuk Hi Street, Yuen Long Industrial Estate, Yuen Long, New Territories, Hong Kong
香港新界元朗工業邨福喜街 50 號 A 座地下至 2 樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術	
	Chemical tests (cont'd):-		
Toys Category III: Scraped-off materials	- Migration of the elements	BS EN71-3: 2013+A1: 2014	.vs.
		EN71-3: 2013+A1: 2014	.vs.
		BS EN 71-3: 2013-+ A2: 2017	.vs.
		EN 71-3: 2013 + A2: 2017	.vs.
		BS EN 71-3: 2013 + A3: 2018	.vs.
		EN 71-3: 2013 + A3: 2018	.vs.
	Aluminium, Antimony, Arsenic, Barium, Boron, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Mercury, Nickel, Selenium, Strontium, Tin and Zinc	(ICP-MS & ICP-OES)	.vs.
	- Organic Tin: Methyl tin, Butyltin, Dibutyl tin, Tributyl tin Tetrabutyl tin, n-Octy tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin, Triphenyl tin	(GC-MS)	.vs.
Toys Category III: Scraped-off materials	- Migration of the elements	BS EN 71-3: 2019	.vs.
		EN 71-3: 2019	.vs.
	Aluminium, Antimony, Arsenic, Barium, Boron, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Mercury, Nickel, Selenium, Strontium, Tin and Zinc	Alternative methods as documented in EN71-3.001CAT3A(2019) (by ICP-OES),	.vs.
		EN71-3.002CAT3A(2019) (by ICP-OES),	.vs.
		EN71-3.003CAT3A(2019) (by ICP-OES),	.vs.
		EN71-3.004CAT3A(2019) (by ICP-OES),	.vs.
		EN71-3.005CAT3A(2019) (by ICP-OES) and	.vs.
		EN71-3.006CAT3A(2019) (by ICP-OES)	.vs.
	Chromium (VI) Chromium (III) (by calculation)	Alternative method as documented in EN71-3.007CAT3A(2019) (by IC-UV)	.vs.
	- Organic Tin: Methyl tin, Dimethyl tin, Butyltin, Dibutyl tin, Tributyl tin, Tetrabutyl tin, n-Octy tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin, Triphenyl tin	Annex G (GC-MSMS)	.vs.

China Dragon Inspection and Certification (H.K.) Ltd.
中龍檢驗認證（香港）有限公司

G/F-2/F, Block A, 50 Fuk Hi Street, Yuen Long Industrial Estate, Yuen Long, New Territories, Hong Kong
香港新界元朗工業邨福喜街 50 號 A 座地下至 2 樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術	
	Chemical tests (cont'd):-		
Toys Category III: Scraped-off materials	- Migration of the elements	BS EN 71-3: 2019 + A1: 2021 EN 71-3: 2019 + A1: 2021	.vs. .vs.
	Aluminium, Antimony, Arsenic, Barium, Boron, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Mercury, Nickel, Selenium, Strontium, Tin and Zinc	Alternative methods as documented in EN71-3.001CAT3A(2021) (by ICP-OES), EN71-3.002CAT3A(2021) (by ICP-OES), EN71-3.003CAT3A(2021) (by ICP-OES), EN71-3.004CAT3A(2021) (by ICP-OES), EN71-3.005CAT3A(2021) (by ICP-OES) and EN71-3.006CAT3A(2021) (by ICP-OES)	 .vs. .vs. .vs. .vs. .vs. .vs.
	Chromium (VI) Chromium (III) (by calculation)	Alternative method as documented in EN71-3.007CAT3A(2021) (by IC-UV)	 .vs.
	- Organic Tin: Methyl tin, Dimethyl tin, Butyltin, Dibutyl tin, Tributyl tin, Tetrabutyl tin, n-Octy tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin, Triphenyl tin	Annex G (GC-MSMS)	.vs.

China Dragon Inspection and Certification (H.K.) Ltd.
中龍檢驗認證（香港）有限公司

G/F-2/F, Block A, 50 Fuk Hi Street, Yuen Long Industrial Estate, Yuen Long, New Territories, Hong Kong
香港新界元朗工業邨福喜街 50 號 A 座地下至 2 樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Electrical tests :-	
Battery operated toys	- Safety tests	ASTM F963-17 Cl. 4.25 < ***Excluding the following*** > Cl. 4.25.8.1, 4.25.10, 4.25.11 ASTM F963-23 Cl. 4.25 < ***Excluding the following*** > Cl. 4.25.7.1, 4.25.9, 4.25.10
Electric toys	- Compliance inspection and safety tests	AS/NZS 62115: 2011 IEC 62115:2003 + A1: 2004 + A2: 2010 < ***Excluding the following*** > for the above two standards Cl. 5.15 (static strength test and dynamic strength test), 11.1, 14.15, 19.2 (burning tests to IEC 60695-11-10 and ISO 9772, glow-wire ignition temperature test to IEC 60695-2-13, and needle flame test to Annex B), 20 Annexes A, B, C and E
	- Compliance inspection and safety tests	BS EN 62115: 2005 + A12: 2015 EN 62115: 2005 + A12: 2015 < ***Excluding the following*** > for the above two standards Cl. 5.15 (static strength test and dynamic strength test), 11.1, 14.15, 19.2 (burning tests to IEC 60695-11-10 and ISO 9772, glow-wire ignition temperature test to IEC 60695-2-13, and needle flame test to Annex B), 20 Annexes A, B, C, E, ZB and ZC
	- Compliance inspection and safety tests	AS/NZS 62115: 2018 + A1: 2021 BS EN IEC 62115: 2020 + A11: 2020 EN IEC 62115: 2020 + A11: 2020 IEC 62115: 2017 < ***Excluding the following*** > for the above four standards Cl. 5.2 (tip over test, static strength test and dynamic strength test), 11, 13.4.1, 13.8, 13.10, 18.2 (burning tests to IEC 60695-11-10 and ISO 9772, glow-wire ignition temperature test to IEC 60695-2-13, and needle flame test to Annex B), 19 Annexes A, B, C, D, E, I, J

China Dragon Inspection and Certification (H.K.) Ltd.
中龍檢驗認證（香港）有限公司

G/F-2/F, Block A, 50 Fuk Hi Street, Yuen Long Industrial Estate, Yuen Long, New Territories, Hong Kong
香港新界元朗工業邨福喜街 50 號 A 座地下至 2 樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Electrical tests :- 電性能測試 :-	
Electric toys	- Compliance inspection and safety tests	GB 19865-2005 **< *Excluding the following* >** Cl. 5.15 (static strength test and dynamic strength test), 8, 11.1, 19.2 (burning tests to GB/T 5169.16 and ISO 9772, glow-wire ignition temperature test to GB/T 5169.13 and needle flame test to Annex B), 20 (radiation tests); Annexes A, B, C and E
電玩具	- 安全測試	GB 19865-2005 **<*不包含*>** Cl. 5.15 (超載試驗及動態強度試驗), 8, 11.1, 19.2 (按 GB/T 5169.16 及 ISO 9772 進行的耐燃試驗, 按 GB/T 5169.13 進行的灼熱絲起燃性試驗及 按附錄 B 進行的針燃試驗), 20 (輻射測試); 附錄 A、B、C 及 E
Electric toys	- Compliance inspection and safety tests	GB 19865-2024 **< *Excluding the following* >** Cl. 5.2 (static strength test and dynamic strength test for ride-on vehicle toy), 8, 11, 13.4.1, 13.8, 13.10, 18.2 (burning tests to GB/T 5169.16 and GB/T 8332, glow-wire ignition temperature test to GB/T 5169.13 and needle flame test to Annex B), 19 (radiation tests); Annexes A, B, C, D, E, I and J
電玩具	- 安全測試	GB 19865-2024 **<*不包含*>** Cl. 5.2 (靜態强度測試及有輪乘騎玩具的動態强度測試), 8, 11, 13.4.1, 13.8, 13.10, 18.2 (按 GB/T 5169.16 及 GB/T 8332 進行的耐燃試驗, 按 GB/T 5169.13 進行的灼熱絲起燃性試驗及 按附錄 B 進行的針燃試驗), 19 (輻射測試); 附錄 A、B、C、D、E、I 及 J

China Dragon Inspection and Certification (H.K.) Ltd.
中龍檢驗認證（香港）有限公司

G/F-2/F, Block A, 50 Fuk Hi Street, Yuen Long Industrial Estate, Yuen Long, New Territories, Hong Kong
香港新界元朗工業邨福喜街 50 號 A 座地下至 2 樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Flammability tests : -	
Toys	- Flammability tests	16 CFR Parts 1500.44 and 1610 ASTM F963-17 Cl. 4.2 ASTM F963-23 Cl. 4.2 BS EN 71-2: 2020 EN 71-2: 2020 < ***Excluding the following*** > for the above two standards Test for flammable gases, extremely flammable liquids, highly flammable liquids, flammable liquids and flammable gels EN 71-2: 2011 + A1: 2014 < ***Excluding the following*** > Test for flammable gases, extremely flammable liquids, highly flammable liquids, flammable liquids and flammable gels AS/NZS 8124.2: 2016 ISO 8124-2: 2014 < ***Excluding the following*** > for the above two standards Test for flammable gases, extremely flammable liquids, highly flammable liquids, flammable liquids, and flammable gels AS/NZS 8124.2: 2023 ISO 8124-2: 2023 < ***Excluding the following*** > for the above two standards Test for flammable gases, extremely flammable liquids, highly flammable liquids, flammable liquids, and flammable gels

China Dragon Inspection and Certification (H.K.) Ltd.
中龍檢驗認證（香港）有限公司

G/F-2/F, Block A, 50 Fuk Hi Street, Yuen Long Industrial Estate, Yuen Long, New Territories, Hong Kong
香港新界元朗工業邨福喜街 50 號 A 座地下至 2 樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Flammability tests : - 燃燒性能測試 : -	
Toys	- Flammability tests	GB 6675.1-2014 Cl. 5.2.1 and GB 6675.3-2014 < ***Excluding the following*** > Test for flammable gases, highly flammable liquids, flammable liquids, flammable gels and highly flammable solids
玩具	- 燃燒性能測試	GB 6675.1-2014 Cl. 5.2.1 and GB 6675.3-2014 <***不包含***> 易燃氣體、高度易燃液體、易燃液體、易燃凝膠體、高度易燃固體

China Dragon Inspection and Certification (H.K.) Ltd.
中龍檢驗認證（香港）有限公司

G/F-2/F, Block A, 50 Fuk Hi Street, Yuen Long Industrial Estate, Yuen Long, New Territories, Hong Kong
香港新界元朗工業邨福喜街 50 號 A 座地下至 2 樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Physical and mechanical tests :-	
Toys	- Safety requirements and test methods	BS EN 71-1: 2014 + A1: 2018 EN 71-1: 2014 + A1: 2018 ***<Excluding the following>*** for the above two standards Cl. 4.10.1, 4.11c), 4.11e), 4.14.1c), 4.15, 4.16 4.18 (Test to EN 15649-3), 4.19, 4.20 (Toys using headphones or earphones, cap firing toys, percussion toys, wind toys and voice toys), 5.6; tests for large and bulky toys
Toys	- Safety requirements and test methods	AS/NZS ISO 8124.1: 2002 + Amd. 1: 2007 + Amd. 2: 2009 + Amd. 3: 2009 ***<Excluding the following>*** Cl. 4.12.1, 4.12.2, 4.15, 4.16.2.2, 4.20, 4.21, 4.22, 4.23, 4.25c), 4.27; tests for large and bulky toys AS/NZS ISO 8124.1: 2019 + A1: 2020 + A2: 2020 ISO 8124-1: 2018 + A1: 2020 + A2: 2020 ***<Excluding the following>*** for the above two standards Cl. 4.8.2, 4.12.1, 4.12.2, 4.15, 4.16.2.2, 4.18.4.1, 4.21, 4.22, 4.23, 4.26c), 4.28, 4.29 (Toys using percussion caps or other explosive action), 4.30; tests for large and bulky toys AS/NZS ISO 8124.1: 2023 ISO 8124-1: 2022 ***<Excluding the following>*** for the above two standards Cl. 4.8.2, 4.12.1, 4.12.2, 4.15, 4.16.2.2, 4.18.4.2 (Mouth-actuated projectile toys), 4.21, 4.22, 4.23, 4.26c), 4.28, 4.29 (Toys using percussion caps or other explosive action), 4.30; tests for large and bulky toys

China Dragon Inspection and Certification (H.K.) Ltd.
中龍檢驗認證（香港）有限公司

G/F-2/F, Block A, 50 Fuk Hi Street, Yuen Long Industrial Estate, Yuen Long, New Territories, Hong Kong
香港新界元朗工業邨福喜街 50 號 A 座地下至 2 樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Physical and mechanical tests :- 機械及物理性能測試 :-	
Toys	- Safety requirements and test methods	GB 6675.1-2014 Cl. 5.1.1 to 5.1.11, 5.7 and Annex A and GB 6675.2-2014 + Amendment 1 ***<Excluding the following >*** Cl. 4.12.1, 4.12.2, 4.13.3, 4.15, 4.20, 4.21, 4.22, 4.23, 4.25c, 4.28 (toys using percussion caps or other explosive action) and tests for large and bulky toys
玩具	- 安全規定及測試方法	GB 6675.1-2014 Cl. 5.1.1 至 5.1.11, 5.7 及附錄 A 及 GB 6675.2-2014 + 第 1 號修改單 <**不包含**> Cl. 4.12.1, 4.12.2, 4.13.3, 4.15, 4.20, 4.21, 4.22, 4.23, 4.25c, 4.28 (火藥帽玩具或爆炸功能玩具), 及關於大型玩具的測試
Toys	- Instructions for use of products of consumer interest – Instructions for use of toys	GB 5296.5-2006
玩具	- 消費品使用說明 - 玩具使用說明	GB 5296.5-2006

China Dragon Inspection and Certification (H.K.) Ltd.
中龍檢驗認證（香港）有限公司

G/F-2/F, Block A, 50 Fuk Hi Street, Yuen Long Industrial Estate, Yuen Long, New Territories, Hong Kong
香港新界元朗工業邨福喜街 50 號 A 座地下至 2 樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Physical and mechanical tests :-	
Toys	- Physical and mechanical tests	ASTM F963-17
	- Safety requirement	Cl. 4.1, 4.3.7, 4.5 to 4.14, 4.16 to 4.24, 4.26 to 4.28, 4.30 to 4.35, 4.36, 4.38 to 4.40 **< *Excluding the following* >** Cl. 4.5 (Toys using percussion caps or other explosive action), 4.6.2, 4.8.1, 4.20.1, 4.21.3.1; tests for large and bulky toys
	- Labeling requirements	Cl. 5
	- Instructional literature	Cl. 6
	- Producer's markings	Cl. 7
	- Test methods	Cl. 8
	- Physical and mechanical tests	ASTM F963-23
	- Safety requirement	Cl. 4.1, 4.3.7, 4.5, 4.6, 4.7, 4.8, 4.9, 4.10, 4.11, 4.12, 4.13, 4.14, 4.16, 4.17, 4.18, 4.19, 4.20.2, 4.21, 4.22, 4.23, 4.23.1, 4.24, 4.26, 4.27, 4.28, 4.30, 4.31, 4.32, 4.33, 4.34, 4.35, 4.36, 4.38, 4.39, 4.40 **< *Excluding the following* >** Cl. 4.5 (Toys using percussion caps or other explosive action), 4.6.2, 4.8.1, 4.21.3.1; tests for large and bulky toys
	- Labeling requirements	Cl. 5
	- Instructional literature	Cl. 6
	- Producer's markings	Cl. 7
	- Test methods	Cl. 8
Toys	- Safety requirements and test methods	16 CFR 1500.48 16 CFR 1500.49 16 CFR 1500.50 16 CFR 1500.51 16 CFR 1500.52 16 CFR 1500.53 16 CFR 1501 16 CFR 1510 16 CFR 1511
Toy disguise costume	- Safety requirements and test methods	BS EN 14682: 2014
Toy magnet set	- Safety requirements and test methods	16 CFR 1240

China Dragon Inspection and Certification (H.K.) Ltd.
中龍檢驗認證（香港）有限公司

G/F-2/F, Block A, 50 Fuk Hi Street, Yuen Long Industrial Estate, Yuen Long, New Territories, Hong Kong
香港新界元朗工業邨福喜街 50 號 A 座地下至 2 樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Physical and mechanical tests :- 機械及物理性能測試 :-	
Children's jewellery	- Mechanical requirements and test methods	ASTM F2923-20 Cl. 13, 14.1 and 14.2
Children's writing and marking instruments	- Safety tests for caps	BS 7272-1: 2008 < ***Excluding the following*** > Cl. 3.3 and Annex A
Young students' writing, drawing and marking instruments	- Safety tests for caps	GB 21027-2020 Cl. 4.8, 4.9.4, 4.9.5, 5.8, 5.9 < ***Excluding the following***> Cl. 4.8.3, 5.8.2 and Annex F
未成年學生使用的書寫、繪圖及記號筆	- 筆帽安全測試	GB 21027-2020 Cl. 4.8, 4.9.4, 4.9.5, 5.8, 5.9 ***<不包含>*** Cl. 4.8.3, 5.8.2 及附錄 F
Children's writing and marking instruments	- Safety tests for end closures	BS 7272-2: 2008 + A1: 2014

China Dragon Inspection and Certification (H.K.) Ltd.
中龍檢驗認證（香港）有限公司

Summary of Voluntary Suspension

.vs. denotes test for which accreditation has been voluntarily suspended with effect from 6 October 2024 (Notification Letter no. HOKLAS068-71).

Water Supplies Department - New Territories East Regional Laboratory
水務署 - 新界東區化驗室

ADDRESS 地址	:	Sha Tin Water Treatment Works, 12 Keng Hau Road, Sha Tin, New Territories, Hong Kong 香港新界沙田徑口路12號沙田濾水廠
ENQUIRY 查詢	:	Mr CHOY Tak-yip, Chief Waterworks Chemist 蔡德業先生，總水務化驗師
TELEPHONE 電話	:	2829 4443
FAX 傳真	:	2824 0578
E-MAIL 電郵	:	wsdinfo@wsd.gov.hk
WEBSITE ADDRESS 網址	:	http://www.wsd.gov.hk
CLIENTELE 服務對象	:	Government departments, normally not available for public testing 通常只服務政府部門

Water Supplies Department - New Territories East Regional Laboratory
水務署 – 新界東區化驗室

ADDRESS **地址**	:	Sha Tin Water Treatment Works, 12 Keng Hau Road, Sha Tin, New Territories, Hong Kong 香港新界沙田徑口路 12 號沙田濾水廠
ACCREDITED TEST CATEGORY **認可測試類別**	:	Environmental Testing 環境測試

Water Supplies Department - New Territories East Regional Laboratory
水務署 – 新界東區化驗室
Sha Tin Water Treatment Works, 12 Keng Hau Road, Sha Tin, New Territories, Hong Kong
香港新界沙田徑口路 12 號沙田濾水廠

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Water	Organic Pollutants :-	
	- Organochlorine Pesticides : Aldrin and Dieldrin, Chlordane (alpha-, gamma-), DDT (o, p'-, p,p'-), Endrin, Heptachlor and Heptachlor epoxide, Hexachlorobenzene, Lindane, Methoxychlor, Permethrin (cis-, trans-), Trifluralin	In House Method PES1 (GC/ECD)
	- Polynuclear Aromatic Hydrocarbons : Benzo(a)pyrene	In House Method PAH1 (HPLC/fluorescence) In House Method PAH2 (SPE/HPLC/fluorescence)
	- Chlorinated Phenoxy Acid Herbicides and Phenols : Bentazon, 2,4-D, 2,4-DB, 2,4-DP (Dichlorprop), MCPA, MCPP (Mecoprop), 2,4,5-T, 2,4,5-TP (Silvex, Fenoprop), Pentachlorophenol, Trichlorophenol	In House Method CPA1 (HPLC/UV)

Water Supplies Department - New Territories East Regional Laboratory
水務署 – 新界東區化驗室
Sha Tin Water Treatment Works, 12 Keng Hau Road, Sha Tin, New Territories, Hong Kong
香港新界沙田徑口路 12 號沙田濾水廠

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Water	Trace Metals :- - Total recoverable: Arsenic, Antimony, Barium, Boron, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Molybdenum, Nickel, Selenium, Uranium, Mercury	In House Method TM6 (ICP-MS)

FT Laboratories Limited
科達測檢試驗所有限公司

ADDRESS 地址	:	Lot No. DD77 Section 1552 S.A. ss 1RP, Ng Chow South Road, Ping Che, New Territories, Hong Kong 香港新界坪輋五洲南路丈量約份第77約地段1552號A分段第一小分段 Postal Address: P. O. Box 830, Fanling Post Office, New Territories, Hong Kong 郵寄地址:香港新界粉嶺郵政局信箱 830 號
ENQUIRY 查詢	:	Mr LAI Wing-chun, General Manager 黎永春先生，總經理
TELEPHONE 電話	:	2758 4861
FAX 傳真	:	2758 8962
E-MAIL 電郵	:	victor.lai@vsl-intrafor.com
WEBSITE ADDRESS 網址	:	https://www.ft.com.hk/
CLIENTELE 服務對象	:	Public 公眾

Contact details last updated on: 2 March 2021

FT Laboratories Limited
科達測檢試驗所有限公司

ADDRESS
地址

Main laboratory	:	Lot No. DD77 Section 1552 S.A. ss 1RP, Ng Chow South Road, Ping Che, New Territories, Hong Kong 香港新界坪輋五洲南路丈量約份第 77 約地段 1552 號 A 分段第一小分段
ACCREDITED TEST CATEGORIES **認可測試類別**	:	Calibration Services 校正服務 Construction Materials 建築材料 Environmental Testing 環境測試

FT Laboratories Limited
科達測檢試驗所有限公司
Lot No. DD77 Section 1552 S.A. ss 1RP, Ng Chow South Road, Ping Che, New Territories, Hong Kong
香港新界坪輋五洲南路丈量約份第 77 約地段 1552 号 A 分段第一小分段

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Acoustic and vibration measurements		
- Vibration measurements		
- Accelerometer (frequency: 20 Hz to 100 Hz dynamic acceleration: 0.98 m/s^2 to 11.77 m/s^2)	Calibration for sensitivity in accordance with ISO 16063-21: 2003 + Cor 1: 2009 Cl. 5.3 over the following range :	
	5 mV / (m/s^2) to 62 mV / (m/s^2)	9.9 % of reading
- Vibration monitoring device (frequency: 20 Hz to 100 Hz)	Calibration for following parameters in accordance with in-house method CAL 091 over the following ranges :	
	Acceleration: 0.98 m/s^2 to 11.77 m/s^2	10.7 % of reading
	Velocity: 2 mm/s to 30 mm/s	10.7 % of reading
	Displacement: 0.01 mm to 0.10 mm	10.7 % of reading

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

FT Laboratories Limited
科達測檢試驗所有限公司
Lot No. DD77 Section 1552 S.A. ss 1RP, Ng Chow South Road, Ping Che, New Territories, Hong Kong
香港新界坪輋五洲南路丈量約份第 77 約地段 1552 号 A 分段第一小分段

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Construction materials testing equipment		
- Block	Calibration for dimensions in accordance with in-house method CAL 136 using height gauge over the following range :	
	1 mm to 300 mm	25 µm to 55 µm
	Calibration for dimensions in accordance with in-house method CAL 142 using projector over the following range :	
	1 mm to 100 mm	19 µm
	Calibration for dimensions in accordance with in-house method CAL 143 using callipers over the following range :	
	1 mm to 300 mm	25 µm to 58 µm
	Calibration for dimensions in accordance with in-house method CAL 144 using steel ruler over the following range :	
	1 mm to 2 m	1.3 mm
- Cement grout flow cone	Verification in accordance with in-house method CAL 040 for the performance as specified in ASTM C939-97 Cl. 8	
	Time of efflux of water from cone: 8.0 s	0.08 s
- Compacting bar	Verification in accordance with in-house method CAL 044 for the dimensional and mass requirements as specified in CS1: 2010: Vol. 1 App. A10	
	Dimensions of ramming face: 25 mm x 25 mm Length: 380 mm Mass: 1.8 kg	0.05 mm 1.5 mm 1 g

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

FT Laboratories Limited
科達測檢試驗所有限公司
Lot No. DD77 Section 1552 S.A. ss 1RP, Ng Chow South Road, Ping Che, New Territories, Hong Kong
香港新界坪輋五洲南路丈量約份第 77 約地段 1552 号 A 分段第一小分段

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Construction materials testing equipment (cont'd)		
- Concrete test cube mould	Verification in accordance with in-house method CAL 029 for the dimensional requirements as specified in CS1: 2010: Vol. 1 App. A25	
	Dimensions: 100 mm or 150 mm	0.06 mm
	Flatness: not more than 0.03 mm or 0.06 mm	0.01 mm
	Perpendicularity: 0.5 mm	0.01 mm
	Parallelism: 1 mm	0.13 mm
	On-site verification in accordance with in-house method CAL 029 for the dimensional requirements as specified in CS1: 2010: Vol. 1 App. A25	
	Dimensions: 100 mm or 150 mm	0.06 mm
	Flatness: not more than 0.03 mm or 0.06 mm	0.01 mm
	Perpendicularity: 0.5 mm	0.01 mm
	Parallelism: 1 mm	0.13 mm
- Curing tank	On-site calibration for the following parameters in accordance with in-house method CAL 026 for the requirements as specified in CS1: 1990: Vol. 1 App. A24, or CS1: 2010: Vol. 1 App. A28	
	- temperature distribution at range of (27 ± 3) ℃	0.7 K
	- Efficiency of circulation	1 min
- Drying oven	On-site calibration for temperature in accordance with in-house method CAL 038 over the following ranges :	
	27 ℃ to 110 ℃	1.2 K
	above 110 ℃ to 180 ℃	1.7 K
	27 ℃ to 110 ℃ for centre point check	0.9 K
	above 110 ℃ to 180 ℃ for centre point check	0.9 K

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

FT Laboratories Limited
科達測檢試驗所有限公司
Lot No. DD77 Section 1552 S.A. ss 1RP, Ng Chow South Road, Ping Che, New Territories, Hong Kong
香港新界坪輋五洲南路丈量約份第 77 約地段 1552 号 A 分段第一小分段

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Construction materials testing equipment (cont'd)		
- Echo sounder signal recording apparatus	Calibration for transmission frequency in accordance with in-house method CAL 126 at the following nominal values :	
	90 kHz	1.4 % of reading
	100 kHz	1.4 % of reading
- Furnace	On-site calibration for temperature in accordance with in-house method CAL 027 over the following range :	
	200 ℃ to 1200 ℃	9.9 K
- Incubator	On-site calibration for temperature in accordance with in-house method CAL 177 over the following ranges :	
	0 ℃ to 60 ℃	1.2 K
	0 ℃ to 60 ℃ for center point check	1.2 K
- Measuring staff	Calibration for dimensions in accordance with in-house method CAL 109 over the following range :	
	0 m to 5 m	1.8 mm
- Rebound hammer	Calibration for rebound value in accordance with in-house method CAL 138 using an anvil which complies with BS EN 12504-2: 2001 Cl. 4.2, or GB 9138: 1988 A2	1.5 rebound count
- Reflex Ezshot	Calibration for angle in accordance with in-house method CAL 114 over the following ranges :	
	Horizontal : 0° to 20°	0.1°
	Vertical : 70° to 90°	0.1°

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

FT Laboratories Limited
科達測檢試驗所有限公司
Lot No. DD77 Section 1552 S.A. ss 1RP, Ng Chow South Road, Ping Che, New Territories, Hong Kong
香港新界坪輋五洲南路丈量約份第 77 約地段 1552 号 A 分段第一小分段

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Construction materials testing equipment (cont'd)		
- Ultrasonic crosshole testing equipment	Calibration for time base in accordance with in-house method CAL 215 using water as sound carrier medium over the following range :	
	50 μs to 1000 μs	8.2 μs to 17.6 μs
	Calibration for time base in accordance with in-house method CAL 215 using air as sound carrier medium over the following range :	
	200 μs to 1500 μs	8.2 μs to 17.6 μs
- Vibrating wire strain gauge	Calibration for strain in accordance with in-house method CAL 072 over the following range :	
	67 microstrain (με) to 4000 microstrain (με)	38 microstrain (με)
- Water bath	On-site calibration for temperature in accordance with in-house method CAL 037 over the following range :	
	25 ℃ to 85 ℃	0.67 K to 1.0 K
- Welding gauges used for measuring the dimension of joint before and after welding	Calibration for following parameters in accordance with in-house method CAL 058	
	Scale measuring bevel angle: 0° to 90°	0.50°
	Scale measuring fixed bevel angle: 0° to 90°	0.50°
	Ruler: 0 mm to 100 mm	0.1 mm
	Scale measuring gap width: 0 mm to 5 mm	0.1 mm
	Scale measuring weld width: 0 mm to 50 mm	0.1 mm
	Scale measuring, high low, weld cap, weld throat and leg length: 0 mm to 30 mm	0.3 mm
	Scale measuring undercut depth: 0 mm to 30 mm	0.3 mm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

FT Laboratories Limited
科達測檢試驗所有限公司
Lot No. DD77 Section 1552 S.A. ss 1RP, Ng Chow South Road, Ping Che, New Territories, Hong Kong
香港新界坪輋五洲南路丈量約份第 77 約地段 1552 号 A 分段第一小分段

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements		
- Time and frequency measuring instruments		
- Time interval measuring device	Calibration for time interval in accordance with in-house method CAL100 over the following range :	
	1 second to 30 minutes	50 ms

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

FT Laboratories Limited
科達測檢試驗所有限公司
Lot No. DD77 Section 1552 S.A. ss 1RP, Ng Chow South Road, Ping Che, New Territories, Hong Kong
香港新界坪輋五洲南路丈量約份第 77 約地段 1552 号 A 分段第一小分段

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related measurements		
- Angle measurements instruments		
- Angle measuring device	Calibration for angle in accordance with in-house method CAL 066 over the following ranges :	
	-60° to 60° (digital type)	0.013°
	-60° to 60° (bubble type)	2°
- Inclinometer for angle monitoring	Calibration for angle in accordance with in-house method CAL 113 over the following ranges :	
	Horizontal : 0° to 20°	0.05°
	Vertical : 70° to 90°	0.05°
- Spirit level	Calibration for sensitivity in accordance with BS 3509: 1962 App. A2.C and A3 over the following range :	
	8 seconds to 60 minutes	0.039 arc degree
- Tilt meter	Calibration for angle in accordance with in-house method CAL 112 over the following range :	
	- 20° to 20°	0.014°

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

FT Laboratories Limited
科達測檢試驗所有限公司
Lot No. DD77 Section 1552 S.A. ss 1RP, Ng Chow South Road, Ping Che, New Territories, Hong Kong
香港新界坪輋五洲南路丈量約份第 77 約地段 1552 号 A 分段第一小分段

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Length and related measurements		
- Length measuring instruments		
- Calliper (vernier type)	Calibration for length in accordance with BS 887: 1982 App. B1 over the following range :	
	0 mm to 300 mm	(10 + 30*l*) μm, length *l* in m
- Calliper (digital type)	Calibration for length in accordance with in-house method CAL 007 over the following range :	
	0 mm to 300 mm	(10 + 30*l*) μm, length *l* in m
- Coating thickness gauge	Calibration for thickness in accordance with in-house method CAL 130 using plastic foils over the following range :	
	10 μm to 2000 μm	10.0 μm
- Depth gauge (vernier type)	Calibration for depth in accordance with BS 6365: 1983 App. B2 over the following range :	
	0 mm to 300 mm	(10 + 30*d*) μm, depth *d* in m
- Depth gauge (digital type)	Calibration for depth in accordance with in-house method CAL 005 over the following range :	
	0 mm to 300 mm	(10 + 30*d*) μm, depth *d* in m

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

FT Laboratories Limited
科達測檢試驗所有限公司
Lot No. DD77 Section 1552 S.A. ss 1RP, Ng Chow South Road, Ping Che, New Territories, Hong Kong
香港新界坪輋五洲南路丈量約份第 77 約地段 1552 号 A 分段第一小分段

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Length and related measurements(cont'd)		
- Length measuring instruments (cont'd)		
- Dial gauge	Calibration for length in accordance with in-house method CAL 004 using gauge blocks over the following ranges :	
- Digital type (resolution: 0.001 mm)	0 mm to 13 mm above 13 mm to 25 mm above 25 mm to 50 mm	1.4 µm 1.9 µm 3.3 µm
- Digital type (resolution: 0.01 mm)	0 mm to 25 mm above 25 mm to 50 mm	6.9 µm 10 µm
- Dial gauge (cont'd)	Calibration for length in accordance with in-house method CAL 004 using a micrometer head over the following ranges :	
- Digital type (resolution: 0.001 mm)	0 mm to 13 mm above 13 mm to 25 mm above 25 mm to 50 mm	4.7 µm 4.9 µm 5.6 µm
- Digital type (resolution: 0.01 mm)	0 mm to 13 mm above 13 mm to 25 mm above 25 mm to 50 mm	7.8 µm 7.9 µm 10 µm
- Dial gauge (cont'd)	Calibration for length in accordance with in-house method CAL 004 using a micrometer head and gauge blocks (combination method) over the following ranges :	
- Analogue type (resolution: 0.01 mm)	0 mm to 80 mm above 80 mm to 100 mm	7.4 µm 10 µm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

FT Laboratories Limited
科達測檢試驗所有限公司
Lot No. DD77 Section 1552 S.A. ss 1RP, Ng Chow South Road, Ping Che, New Territories, Hong Kong
香港新界坪輋五洲南路丈量約份第 77 約地段 1552 号 A 分段第一小分段

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Length and related measurements(cont'd)		
- Length measuring instruments (cont'd)		
- Dial gauge (cont'd)	Calibration for length in accordance with AS 2103: 1978 App. A5 using gauge blocks over the following ranges :	
- Analogue type (scale division: 0.001 mm)	0 mm to 5 mm	1.0 µm
- Analogue type (scale division: 0.002 mm)	0 mm to 13 mm above 13 mm to 25 mm above 25 mm to 50 mm	1.4 µm 1.9 µm 3.3 µm
- Analogue type (scale division: 0.01 mm)	0 mm to 13 mm above13 mm to 25 mm above 25 mm to 50 mm above 50 mm to 80 mm above 80 mm to 100 mm	3.5 µm 3.7 µm 4.5 µm 5.9 µm 7.0 µm
- Dial gauge (cont'd)	Calibration for length in accordance with AS 2103: 1978 App. A5 using a micrometer head over the following ranges :	
- Analogue type (scale division: 0.001 mm)	0 mm to 5 mm	4.6 µm
- Analogue type (scale division: 0.002 mm)	0 mm to 13 mm above 13 mm to 25 mm above 25 mm to 50 mm	4.7 µm 4.9 µm 5.6 µm
- Analogue type (scale division: 0.01 mm)	0 mm to 13 mm above 13 mm to 25 mm above 25 mm to 50 mm	5.5 µm 5.7 µm 6.3 µm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

FT Laboratories Limited
科達測檢試驗所有限公司
Lot No. DD77 Section 1552 S.A. ss 1RP, Ng Chow South Road, Ping Che, New Territories, Hong Kong
香港新界坪輋五洲南路丈量約份第 77 約地段 1552 号 A 分段第一小分段

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Length and related measurements (cont'd)		
- Length measuring instruments (cont'd)		
- Dial gauge (cont'd)	Calibration for length in accordance with BS 907: 1965 App. B3 using gauge blocks over the following ranges :	
- Analogue type (scale division: 0.001 mm)	0 mm to 5 mm	1.0 µm
- Analogue type (scale division: 0.002 mm)	0 mm to 13 mm above 13 mm to 25 mm above 25 mm to 50 mm	1.4 µm 1.9 µm 3.3 µm
- Analogue type (scale division: 0.01 mm)	0 mm to 13 mm above13 mm to 25 mm above 25 mm to 50 mm above 50 mm to 80 mm above 80 mm to 100 mm	3.5 µm 3.7 µm 4.5 µm 5.9 µm 7.0 µm
- Dial gauge (cont'd)	Calibration for length in accordance with BS 907: 1965 App. B3 using a micrometer head over the following ranges :	
- Analogue type (scale division: 0.001 mm)	0 mm to 5 mm	4.6 µm
- Analogue type (scale division: 0.002 mm)	0 mm to 13 mm above 13 mm to 25 mm above 25 mm to 50 mm	4.7 µm 4.9 µm 5.6 µm
- Analogue type (scale division: 0.01 mm)	0 mm to 13 mm above 13 mm to 25 mm above 25 mm to 50 mm	5.5 µm 5.7 µm 6.3 µm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

FT Laboratories Limited
科達測檢試驗所有限公司
Lot No. DD77 Section 1552 S.A. ss 1RP, Ng Chow South Road, Ping Che, New Territories, Hong Kong
香港新界坪輋五洲南路丈量約份第 77 約地段 1552 号 A 分段第一小分段

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Length and related measurements (cont'd)		
- Length measuring instruments (cont'd)		
- Dipmeter	Calibration for length in accordance with in-house method CAL 110 over the following range :	
	0 mm to 200 m	2.1 mm to 42 mm
- Engineer's steel measuring rule	Calibration for length in accordance with in-house method CAL 006 over the following ranges :	
	0 mm to 150 mm	101 µm
	above 150 mm to 300 mm	111 µm
	above 300 mm to 450 mm	126 µm
	above 450 mm to 600 mm	143 µm
	above 600 mm to 1000 mm	201 µm
	above 1000 mm to 1200 mm	232 µm
	above 1200 mm to 1500 mm	280 µm
	above 1500 mm to 2000 mm	364 µm
- External micrometer	Calibration for travel length in accordance with BS 870: 1950 App. A over the following ranges:	
	0 mm to 25 mm	1.9 µm
	above 25 mm to 50 mm	1.9 µm
	above 50 mm to 75 mm	1.9 µm
	above 75 mm to 100 mm	1.9 µm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

FT Laboratories Limited
科達測檢試驗所有限公司
Lot No. DD77 Section 1552 S.A. ss 1RP, Ng Chow South Road, Ping Che, New Territories, Hong Kong
香港新界坪輋五洲南路丈量約份第 77 約地段 1552 号 A 分段第一小分段

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related measurements (cont'd)		
- Length measuring instruments (cont'd)		
- Extensometer - Grade A with gauge length from 200 mm to 500 mm - Grade B with gauge length from 100 mm to 500 mm - Grade C with gauge length from 50 mm to 500 mm - Grade D with gauge length from 20 mm to 500 mm - Grade E with gauge length from 10 mm to 500 mm - Grade F with gauge length from 5 mm to 500 mm	On-site calibration for displacement using micrometer head and verification of grade in accordance with BS 3846: 1970 (excluding determination of calibration factor) over the following range: 0 mm to 5 mm	 1.91 μm
- Extensometer (cont'd) - Class 1 or Class 2 with gauge length from 50 mm to 500 mm	On-site calibration for displacement using micrometer head and verification of class in accordance with BS EN 10002-4: 1995, or BS EN ISO 9513: 2002 over the following range: 0 mm to 5 mm	 1.91 μm
- Feeler gauge	Verification of thickness of blade in accordance with in-house method CAL 042 for the dimensional requirements as specified in BS 957: Part 2: 1969 over the following range : 0.01 mm to 1 mm	 3.2 μm

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

FT Laboratories Limited
科達測檢試驗所有限公司
Lot No. DD77 Section 1552 S.A. ss 1RP, Ng Chow South Road, Ping Che, New Territories, Hong Kong
香港新界坪輋五洲南路丈量約份第 77 約地段 1552 号 A 分段第一小分段

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related measurements (cont'd)		
- Length measuring instruments (cont'd)		
- Height gauge (vernier type)	Calibration for length in accordance with BS 1643: 1983 App. A.2 over the following range :	
	0 mm to 300 mm	(10 + 30*h*) μm, height *h* in m
- Height gauge (digital type)	Calibration for length in accordance with in-house method CAL 008 over the following range :	
	0 mm to 300 mm	(10 + 30*h*) μm, height *h* in m
- Linear variable differential transformer (LVDT)	Calibration for length in accordance with in-house method CAL 031 over the following ranges :	
	0 mm to 100 mm	10 μm
	100 mm to 200 mm	10 μm
	200 mm to 300 mm	10 μm
- Magnetic extensometer	Calibration for length in accordance with in-house method CAL 135 over the following ranges :	
	0 mm to 200 m	6 mm to 120 mm
- Measuring tape	Calibration for length in accordance with in-house method CAL 056 over the following range :	
	0 mm to 200 m	1.2 mm to 24 mm
- Micrometer head	Calibration for travel length in accordance with in-house method CAL 076 over the following range :	
	0 mm to 100 mm	(1 + 30*l*) μm, total length *l* in m

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

FT Laboratories Limited
科達測檢試驗所有限公司
Lot No. DD77 Section 1552 S.A. ss 1RP, Ng Chow South Road, Ping Che, New Territories, Hong Kong
香港新界坪輋五洲南路丈量約份第 77 約地段 1552 号 A 分段第一小分段

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related measurements (cont'd)		
- Length measuring instruments (cont'd)		
- Plastic foil	Calibration for thickness in accordance with in-house method CAL 130 over the following range :	
	10 µm to 2000 µm	9.6 µm
- Projector	On-site calibration for length in accordance with in-house method CAL 035 over the following range :	
	x-y measuring stage 50mm x 50 mm (10 and 100 magnification)	4.1 µm
	On-site calibration for angle in accordance with in-house method CAL 079 over the following range :	
	0° to 360°	0.25°

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

FT Laboratories Limited
科達測檢試驗所有限公司
Lot No. DD77 Section 1552 S.A. ss 1RP, Ng Chow South Road, Ping Che, New Territories, Hong Kong
香港新界坪輋五洲南路丈量約份第 77 約地段 1552 号 A 分段第一小分段

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Length and related measurements (cont'd)		
- Survey and GPS instruments		
- Digital level instrument	Calibration for height difference between points with 10 m apart in accordance with in-house method CAL 120 over the following range :	
	0 mm to 50 mm	0.04 mm
- Optical level instrument	Calibration for height difference between points with 10 m apart in accordance with in-house method CAL 119 over the following range :	
	0 mm to 10 mm	0.08 mm
- Theodolite	Calibration for angle in accordance with in-house method CAL 189 over the following ranges :	
	Horizontal angle : 0° to 360°	67 sec of arc
	Vertical angle : -75° to 75°	67 sec of arc
- Total station	Calibration for angle in accordance with in-house method CAL 189 over the following ranges :	
	Horizontal angle : 0° to 360°	67 sec of arc
	Vertical angle : -75° to 75°	67 sec of arc
	Calibration for length in accordance with in-house method CAL 188 over the following range :	
	0 m to 10 m	2.4 mm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

FT Laboratories Limited
科達測檢試驗所有限公司
Lot No. DD77 Section 1552 S.A. ss 1RP, Ng Chow South Road, Ping Che, New Territories, Hong Kong
香港新界坪輋五洲南路丈量約份第 77 約地段 1552 号 A 分段第一小分段

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related measurements		
- Density measurements		
- Nuclear densometer / nuclear density gauge	Calibration for density in accordance with in-house method CAL 169 over the following range :	
	1200 kg/m^3 to 2700 kg/m^3	35 kg/m^3 to 49 kg/m^3
- Nuclear surface moisture-density gauge	Calibration for the following parameters in accordance with in-house method CAL 225 using direct transmission method over the following ranges :	
	Density: 1200 kg/m^3 to 2700 kg/m^3	16.7 kg/m^3 to 50 kg/m^3
	Water content: 571 kg/m^3	6.7 kg/m^3

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

FT Laboratories Limited
科達測檢試驗所有限公司
Lot No. DD77 Section 1552 S.A. ss 1RP, Ng Chow South Road, Ping Che, New Territories, Hong Kong
香港新界坪輋五洲南路丈量約份第 77 約地段 1552 号 A 分段第一小分段

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related measurements (cont'd)		
- Flow measurements - Water meter (size of meter: 25 mm to 210 mm)	Calibration for volume in accordance with in-house method CAL 048 (The volume of water collected is normally from 100 litre to 3000 litre)	1.5 % of reading

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

FT Laboratories Limited
科達測檢試驗所有限公司
Lot No. DD77 Section 1552 S.A. ss 1RP, Ng Chow South Road, Ping Che, New Territories, Hong Kong
香港新界坪輋五洲南路丈量約份第 77 約地段 1552 号 A 分段第一小分段

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related measurements (cont'd)		
- Force measurements		
- Compression testing machine	On-site calibration for compressive force using Grade 1.0 load cells and verification for grade in accordance with BS 1610: Part 1: 1985, BS 1610: Part 1: 1992, or CS1: 1990 Vol.2 App. D (constant true force method or indicated force method for above three standards) over the following range:	
	10 kN to 3000 kN	0.3 % of reading
	On-site calibration for compressive force using Class 1.0 load cells and verification for grade in accordance with BS EN 12390-4: 2000, CS1: 2010 Vol. 2 App. D, BS EN ISO 7500-1: 1999, or BS EN ISO 7500-1: 2004, (constant true force method or indicated force method for above four standards) over the following range:	
	1 kN to 3000 kN	0.3 % of reading

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

FT Laboratories Limited
科達測檢試驗所有限公司
Lot No. DD77 Section 1552 S.A. ss 1RP, Ng Chow South Road, Ping Che, New Territories, Hong Kong
香港新界坪輋五洲南路丈量約份第 77 約地段 1552 号 A 分段第一小分段

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related measurements (cont'd)		
- Force measurements (cont'd)		
- Force measuring device for foundation test - load cell - load cell with hydraulic jack	Calibration for compressive force in accordance with in-house method CAL 080 over the following ranges :	
	Using 500 kN reference load cell:	
	10 kN to 50 kN	2.8 % of reading
	above 50 kN to 500 kN	1.2 % of reading
	Using 3000 kN reference load cell:	
	100 kN to 200 kN	1.9 % of reading
	above 200 kN to 3000 kN	1.3 % of reading
- Force measuring device for pile test - load cell - load cell with hydraulic jack	Calibration for compressive force in accordance with in-house method CAL 053 over the following ranges :	
	500 kN to 13000 kN	0.9 % of reading
	above 13000 kN to 15000 kN	1.1 % of reading
	above 15000 kN to 16000 kN	1.2 % of reading

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

FT Laboratories Limited
科達測檢試驗所有限公司
Lot No. DD77 Section 1552 S.A. ss 1RP, Ng Chow South Road, Ping Che, New Territories, Hong Kong
香港新界坪輋五洲南路丈量約份第 77 約地段 1552 号 A 分段第一小分段

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related measurements (cont'd)		
- Force measurements (cont'd)		
- Load cell	Calibration of compressive force in accordance with in-house method CAL 108 over the following ranges :	
	1 kN to 2 kN	0.48 % of reading
	above 2 kN to 5 kN	0.41 % of reading
	above 5 kN to 10 kN	0.39 % of reading
	above 10 kN to 15 kN	0.40 % of reading
	above 15 kN to 35 kN	0.39 % of reading
	above 35 kN to 50 kN	0.38 % of reading
- Proving ring	Calibration of compressive force in accordance with GEOSPEC 3: 2001 Cl. A.3.1, or GEOSPEC 3: 2017 Cl. A.3.1 over the following ranges :	
	0.2 kN to 1 kN	1.65 % of reading
	above 1 kN to 20 kN	0.3 % of reading

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

FT Laboratories Limited
科達測檢試驗所有限公司
Lot No. DD77 Section 1552 S.A. ss 1RP, Ng Chow South Road, Ping Che, New Territories, Hong Kong
香港新界坪輋五洲南路丈量約份第 77 約地段 1552 号 A 分段第一小分段

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related measurements (cont'd)		
- Force measurements (cont'd)		
- Universal testing machine in compression mode	On-site calibration for compressive force using Grade 1.0 load cells and verification for grade in accordance with BS 1610: Part 1: 1985, BS 1610: Part 1: 1992, or CS1: 1990 Vol.2 App. D (constant true force method or indicated force method for above three standards) over the following range:	
	10 kN to 3000 kN	0.3 % of reading
	On-site calibration for compressive force using Class 1.0 load cells and verification for grade in accordance with BS EN 12390-4: 2000, BS EN ISO 7500-1: 1999, BS EN ISO 7500-1: 2004,or BS EN ISO 7500-1: 2018 (constant true force method or indicated force method for above four standards) over the following range:	
	1 kN to 3000 kN	0.3 % of reading

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

FT Laboratories Limited
科達測檢試驗所有限公司
Lot No. DD77 Section 1552 S.A. ss 1RP, Ng Chow South Road, Ping Che, New Territories, Hong Kong
香港新界坪輋五洲南路丈量約份第 77 約地段 1552 号 A 分段第一小分段

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related measurements (cont'd)		
- Hardness measurements		
- Hardness testing machine	On-site indirect verification for Rockwell hardness HRB and HRC scales in accordance with BS EN ISO 6508-2: 1999 Cl. 5, BS EN ISO 6508-2: 2005 Cl. 5, BS EN ISO 6508-2: 2015 Cl. 5, BS EN ISO 10109-2: 1996 Cl. 5, or BS 891: 1989 Section 4 over the following ranges :	
	20 HRB to 100 HRB	0.7 HRB
	20 HRC to 70 HRC	0.4 HRC
	On-site indirect verification for Vickers hardness scale in accordance with BS EN ISO 6507-2: 1998 Cl. 5, BS EN ISO 6507-2: 2005 Cl. 5, BS EN ISO 6507-2: 2018 Cl. 6, BS 427: 1990 Section 4, or ASTM E92-82 (Re-approved 97) Section B over the following ranges :	
	151 HV 5 to 721 HV 5	1.6 % HV 5
	151 HV 10 to 696 HV 10	2.6 % HV 10
	210 HV 30 to 709 HV 30	2.6 % HV 30
	On-site indirect verification for Brinell hardness scale in accordance with BS EN ISO 6506-2: 1999 Cl. 5, BS EN ISO 6506-2: 2005 Cl. 5, BS EN ISO 6506-2: 2018 Cl. 6, BS 240: 1986, Section 4, or ASTM E10-01 Cl. 15.2 over the following range :	
	202 HBW 2.5 / 187.5 to 608 HBW 2.5 / 187.5	1.5 % HBW 2.5 / 187.5

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

FT Laboratories Limited
科達測檢試驗所有限公司
Lot No. DD77 Section 1552 S.A. ss 1RP, Ng Chow South Road, Ping Che, New Territories, Hong Kong
香港新界坪輋五洲南路丈量約份第 77 約地段 1552 号 A 分段第一小分段

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related measurements (cont'd)		
- Pressure measurements		
- Pressure gauge	Calibration for pressure in accordance with in-house method CAL 019 using air as pressure medium over the following range :	
	0.15 bar to 25 bar	0.15 % of reading
	On-site calibration for pressure in accordance with in-house method CAL 019 using air as pressure medium over the following range :	
	0.15 bar to 25 bar	0.15 % of reading
	Calibration for pressure in accordance with in-house method CAL 019 using water as pressure medium over the following range :	
	0.15 bar to 700 bar	0.8 % of reading
	On-site calibration for pressure in accordance with in-house method CAL 019 using water as pressure medium over the following range :	
	0.15 bar to 700 bar	0.8 % of reading
	Calibration for pressure in accordance with GEOSPEC 3: 2001 App. 3.2, or GEOSPEC 3: 2017 App. 3.2 using water as pressure medium over the following range :	
	0.15 bar to 25 bar	0.55 % of reading
	On-site calibration for pressure in accordance with GEOSPEC 3: 2001 App. 3.2, or GEOSPEC 3: 2017 App. 3.2 using water as pressure medium over the following range :	
	0.15 bar to 25 bar	0.55 % of reading

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

FT Laboratories Limited
科達測檢試驗所有限公司
Lot No. DD77 Section 1552 S.A. ss 1RP, Ng Chow South Road, Ping Che, New Territories, Hong Kong
香港新界坪輋五洲南路丈量約份第 77 約地段 1552 号 A 分段第一小分段

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related measurements (cont'd)		
- Pressure measurements (cont'd)		
- Pressure gauge / transducer	Calibration for pressure in accordance with in-house method CAL 071 using dead-weight tester over the following ranges :	
	1 bar to 60 bar	0.21 bar
	above 60 bar to 1200 bar	3.13 bar
- Pressure transducer	Calibration for pressure in accordance with in-house method CAL 019 using air as pressure medium over the following range :	
	0.15 bar to 25 bar	0.10 % of reading
	On-site calibration for pressure in accordance with in-house method CAL 019 using air as pressure medium over the following range :	
	0.15 bar to 25 bar	0.10 % of reading
	Calibration for pressure in accordance with in-house method CAL 019 using water as pressure medium over the following range :	
	0.15 bar to 700 bar	0.8 % of reading
	On-site calibration for pressure in accordance with in-house method CAL 019 using water as pressure medium over the following range :	
	0.15 bar to 700 bar	0.8 % of reading

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

FT Laboratories Limited
科達測檢試驗所有限公司
Lot No. DD77 Section 1552 S.A. ss 1RP, Ng Chow South Road, Ping Che, New Territories, Hong Kong
香港新界坪輋五洲南路丈量約份第 77 約地段 1552 号 A 分段第一小分段

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED[@]** 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related measurements (cont'd)		
- Pressure measurements (cont'd)		
- Pressure transducer (cont'd)	Calibration for pressure in accordance with GEOSPEC 3: 2001 App. 3.2, or GEOSPEC 3: 2017 App. 3.2 using water as pressure medium over the following range :	
	0.15 bar to 25 bar	0.55 % of reading
	On-site calibration for pressure in accordance with GEOSPEC 3: 2001 App. 3.2, or GEOSPEC 3: 2017 App. 3.2 using water as pressure medium over the following range :	
	0.15 bar to 25 bar	0.55 % of reading

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

FT Laboratories Limited
科達測檢試驗所有限公司
Lot No. DD77 Section 1552 S.A. ss 1RP, Ng Chow South Road, Ping Che, New Territories, Hong Kong
香港新界坪輋五洲南路丈量約份第 77 約地段 1552 号 A 分段第一小分段

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related measurements (cont'd)		
- Torque measurements		
- Torque multiplier	Calibration for torque in accordance with in-house method CAL 179 over the following range :	
	30 N·m to 1000 N·m	0.01 N·m to 23 N·m
- Torque wrench, torque screwdriver and torque measuring device	Calibration for torque in accordance with in-house method CAL 152 over the following ranges :	
	34 N·m to 339 N·m	1.1 N·m to 3.4 N·m
	above 339 N·m to 1000 N·m	12 N·m to 23 N·m

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

FT Laboratories Limited
科達測檢試驗所有限公司
Lot No. DD77 Section 1552 S.A. ss 1RP, Ng Chow South Road, Ping Che, New Territories, Hong Kong
香港新界坪輋五洲南路丈量約份第 77 約地段 1552 号 A 分段第一小分段

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related measurements (cont'd)		
- Balances and weights		
- Balance	Calibration for mass in accordance with in-house method CAL 003 using following OIML Class standard weights (1) E2 weights from 1 mg to 200 g (2) F1 weights from 1 mg to 50 kg (3) M1 weights of 20 kg over the following ranges :	
	1 mg to 300 g	0.4 mg
	above 300 g to 500 g	0.4 mg to 8 mg
	above 500 g to 1 kg	8 mg
	above 1 kg to 10 kg	8 mg to 20 mg
	above 10 kg to 50 kg	20 mg to 300 mg
	above 50 kg to 300 kg	300 mg to 10 g
	On-site calibration for mass in accordance with in-house method CAL 003 using following OIML Class standard weights (1) E2 weights from 1 mg to 200 g (2) F1 weights from 1 mg to 50 kg (3) M1 weights of 20 kg over the following ranges :	
	1 mg to 300 g	0.4 mg
	above 300 g to 500 g	0.4 mg to 8 mg
	above 500 g to 1 kg	8 mg
	above 1 kg to 10 kg	8 mg to 20 mg
	above 10 kg to 50 kg	20 mg to 300 mg
	above 50 kg to 300 kg	300 mg to 10 g

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

FT Laboratories Limited
科達測檢試驗所有限公司
Lot No. DD77 Section 1552 S.A. ss 1RP, Ng Chow South Road, Ping Che, New Territories, Hong Kong
香港新界坪輋五洲南路丈量約份第 77 約地段 1552 号 A 分段第一小分段

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related measurements (cont'd)		
- Balances and weights (cont'd)		
- Weight (Standard values)	Calibration for mass in accordance with in-house method CAL 034 at the following specific nominal values :	
	500 mg	0.14 mg
	1 g	0.14 mg
	2 g	0.14 mg
	5 g	0.14 mg
	10 g	0.15 mg
	20 g	0.20 mg
	50 g	0.28 mg
	100 g	0.52 mg
	200 g	0.82 mg
	500 g	15 mg
	1 kg	13 mg
	2 kg	16 mg
	5 kg	0.16 g
	10 kg	0.17 g
	20 kg	0.60 g
- Weight (Non-standard values)	Calibration for mass in accordance with in-house method CAL 034 using comparison method over the following ranges :	
	0.5 g to 200 g	0.14 mg
	above 200 g to 3 kg	8 mg
	above 3 kg to 15 kg	0.16 g
	above 15 kg to 30 kg	0.6 g
	Calibration for mass in accordance with in-house method CAL 034 using direct weighing method over the following ranges :	
	0.5 g to 200 g	0.26 mg
	above 200 g to 3 kg	36 mg
	above 3 kg to 15 kg	0.21 g
	above 15 kg to 30 kg	2.4 g

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

FT Laboratories Limited
科達測檢試驗所有限公司
Lot No. DD77 Section 1552 S.A. ss 1RP, Ng Chow South Road, Ping Che, New Territories, Hong Kong
香港新界坪輋五洲南路丈量約份第 77 約地段 1552 号 A 分段第一小分段

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED[@]** 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Temperature measurements		
- Digital thermometer	Calibration for temperature in accordance with in-house method CAL 049 over the following ranges :	
	Ice-point (0 ℃)	0.03 K
	5 ℃ to 80 ℃	0.8 K
- Liquid-in-glass thermometer	Calibration for temperature in accordance with in-house method CAL 054 over the following ranges :	
	Ice point (0 ℃)	0.12 K
	5 ℃ to 80 ℃	0.8 K

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

FT Laboratories Limited
科達測檢試驗所有限公司
Lot No. DD77 Section 1552 S.A. ss 1RP, Ng Chow South Road, Ping Che, New Territories, Hong Kong
香港新界坪輋五洲南路丈量約份第 77 約地段 1552 号 A 分段第一小分段

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Adhesive	Pull-off test of adhesive	In-house method SIU 010
	Pull-off test of coating	In-house method SIU 011
	Pull-off test of mortar	In-house method SIU 012
	Pull-off test of plaster	In-house method SIU 013
	Pull-off test of render	In-house method SIU 014
	Pull-off test of tiles	In-house method SIU 015 (coring method) In-house method SIU 016 (saw-cut method)
Aggregates	Sampling	BS 812: Part 102: 1984 CS3: 2013 Section 8
	Particle size distribution	BS 812: Section 103.1: 1985 + Amd. 6003 (by sieve analysis) CS3: 2013 Section 10 + Amd. 1/2013 (by Sieve analysis)
	Flakiness index	BS 812: Section 105.1: 1989 CS3: 2013 Section 11
	Elongation index	CS3: 2013 Section 12
	Aggregate impact value	BS 812: Part 112: 1990 CS3: 2013 Section 15
	Ten per cent fines value	BS 812: Part 111: 1990 CS3: 2013 Section 16
	Particle densities and water absorption	CS3: 2013 Section 17
	Moisture content	BS 812: Part 109: 1990 (by oven drying method) CS3: 2013 Section 18
	Clay, silt and dust content	BS 812: Part 1: 1975 + Amd. 4875 (by decantation method)
	Relative densities and water absorption	BS 812: Part 2: 1975 + Amd. 4615 (by Gas jar and Pycnometer method) BS 812: Part 2: 1995 (by Gas jar and Pycnometer method)

FT Laboratories Limited
科達測檢試驗所有限公司
Lot No. DD77 Section 1552 S.A. ss 1RP, Ng Chow South Road, Ping Che, New Territories, Hong Kong
香港新界坪輋五洲南路丈量約份第 77 約地段 1552 号 A 分段第一小分段

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Aggregates (cont'd)	Shell content in coarse aggregates	BS 812: Part 106: 1985
Bridge bearings	Compression stiffness test of elastomeric bearings	BS 5400: 1983 Section 9.2 Cl. 7 & Guidance Cl. 7.2(b)(2) BS EN 1337-3: 2005 Cl. 4.3.3, 4.3.3.1 & Annex H
	Compression stiffness test of pot bearings	BS EN 1337-5: 2005 Annexes B & F
	Friction test on sliding structural bearings	General Specification for Civil Engineering Works (2006) Vol. 2 App. 20.1
	Horizontal test on bearing under a vertical load for serviceability limit state	BS 5400: 1983 Section 9.2 Cl. 7 & Guidance Cl. 7.2(b)(1)
	Quick compressive test of elastomeric bearings	BS EN 1337-3: 2005 Cl. 4.3.3, 4.3.3.2 & Annex H
	Quick production test of elastomeric bearings	BS 5400: 1983 Section 9.2 Cl. 7 & Guidance Cl. 7.2(b)(2)
	Shear modulus of elastomeric bearings	BS EN 1337-3: 2005 Cl. 4.3.1, 4.3.1.1 & Annex F
	Shear stiffness test of elastomeric bearings	BS 5400: 1983 Section 9.2 App. A & Guidance Cl. 7.2(c)(2)
	Uplift load test for serviceability limit state	In-house method FOR006
	Vertical compression test for serviceability limit state	BS 5400: 1983 Section 9.2 Cl. 7 & Guidance Cl. 7.2(b)(1)

FT Laboratories Limited
科達測檢試驗所有限公司
Lot No. DD77 Section 1552 S.A. ss 1RP, Ng Chow South Road, Ping Che, New Territories, Hong Kong
香港新界坪輋五洲南路丈量約份第 77 約地段 1552 号 A 分段第一小分段

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Cement stabilised soil	Unconfined compressive strength of cement stabilised soil cores (with or without capping)	GEO Report No. 365 (Feb 2023) App. A Interim Guidelines on Testing of Unconfined Compressive Strength of Cement Stabilised Soil Cores in Hong Kong (Oct 2017) App. B published by Geotechnical Division of The Hong Kong Institution of Engineers
Coating	Coating thickness by gravimetric method	BS 729: 1971 App. A BS EN ISO 1460: 1995 BS EN ISO 1460: 2020
	Coating thickness by magnetic method	BS EN ISO 2178: 1995 + Amd. 8482 (Magnetic method) BS EN ISO 2178: 2016 (Magnetic method) BS EN ISO 2808: 2007 (Method 7C only) BS EN ISO 2808: 2019 (Method 7C only)
Concrete	Sampling fresh concrete on site	CS1: 2010 Section 1
	Slump of fresh concrete	CS1: 2010 Section 2 Part I
	Flow table test	BS 1881: Part 105: 1984 + Amd. 6087 & 6724 CS1: 2010 Section 2 Part IV
	Slump flow test	CS1: 2010 Section 2 Part V
	Stiffening time of fresh concrete	CS1: 2010 Section 3
	Density of compacted fresh concrete	CS1: 2010: Section 5
	Making test cubes from fresh concrete	CS1: 2010 Section 7
	Curing test specimens	CS1: 2010 Section 10
	Mixing and sampling of fresh concrete in the laboratory	CS1: 2010 Section 11
	Compressive strength of concrete cubes in force range 50kN - 3000kN	CS1: 2010 Section 12
	Obtaining core samples	CS1: 2010 Section 15
	Compressive strength of concrete cores in the force range 50kN - 3000kN	BS 1881: Part 120: 1983 + Amd. 6109 CS1: 2010 Section 15

FT Laboratories Limited
科達測檢試驗所有限公司
Lot No. DD77 Section 1552 S.A. ss 1RP, Ng Chow South Road, Ping Che, New Territories, Hong Kong
香港新界坪輋五洲南路丈量約份第 77 約地段 1552 号 A 分段第一小分段

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Concrete (cont'd)	Density of hardened concrete	CS1: 2010 Section 16
	Depth of penetration of water under pressure	CS1: 2010 Section 18
	Crack width monitoring	In-house method SVY007 (by telfale device) In-house method SVY008 (by digital device)
	Removal of concrete cover to expose reinforcement	Hong Kong Housing Authority Material Testing Services (2020/2022) for Maintenance & Building Materials Specification Part D Cl. 4.2.1
	Temperature monitoring of concrete structure	In-house method FOR005
	Temperature measurement of fresh concrete	BS 5328: Part 4: 1990 Cl. 3.4
	Water absorption	BS 1881: Part 122: 1983
Concrete (diagnostic)	Carbonation test	BS EN 14630: 2006 Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance & Building Materials Specification Part D Cl. 4.3.1 (Method 1 & Method 2)
	Covermeter survey	BS 1881: Part 204: 1988
	Surface hardness measurement	BS 1881: Part 202: 1986 BS EN 12504-2: 2001 BS EN 12504-2: 2012 BS EN 12504-2: 2021
	Ultrasonic pulse velocity measurement	BS 1881: Part 203: 1986 (direct transmission)
	Half-cell potential measurement	ASTM C876-91 (Reapproved 1999) ASTM C876-15
	Resistivity measurement	BS 1881: Part 201: 1986 Cl. 2.3

FT Laboratories Limited
科達測檢試驗所有限公司
Lot No. DD77 Section 1552 S.A. ss 1RP, Ng Chow South Road, Ping Che, New Territories, Hong Kong
香港新界坪輋五洲南路丈量約份第 77 約地段 1552 号 A 分段第一小分段

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Fibre reinforced polymers (FRP)	Apparent horizontal shear strength of pultruded reinforced plastic rods	ASTM D4475-02 (2008)
	Bond strength of FRP bars by pull-out testing for reinforcing or strengthening concrete structures	ACI 440.3R-04 Cl. B3 ACI 440.3R-12 Cl. B3
	Cross sectional properties of FRP bars for reinforcing or strengthening concrete structures	ACI 440.3R-04 Cl. B1 ACI 440.3R-12 Cl. B1 ASTM D7205/D7205M-06 (Reapproved 2016)
	Flexural properties	BS EN ISO 11296-4: 2018 + A1: 2021 Annex B BS EN ISO 178: 2010 + A1: 2013 BS EN ISO 178: 2019
	Initial ring stiffness	ISO 7685: 1998 ISO 7685: 2019 in conjunction with the following specification(s): BS EN ISO 11296-4: 2018 + A1: 2021
	Longitudinal tensile strength of FRP bars for reinforcing or strengthening concrete structures	ACI 440.3R-04 Cl. B2 ACI 440.3R-12 Cl. B2 ASTM D7205/D7205M-06 (Reapproved 2016)
	Strength of FRP bent bars and stirrups at bend locations	ACI 440.3R-04 Cl. B5
	Transverse shear strength of FRP bars for for reinforcing or strengthening concrete structures	ACI 440.3R-04 Cl. B4 ACI 440.3R-12 Cl. B4 ASTM D7617/D7617M-11 (Reapproved 2017)

FT Laboratories Limited
科達測檢試驗所有限公司
Lot No. DD77 Section 1552 S.A. ss 1RP, Ng Chow South Road, Ping Che, New Territories, Hong Kong
香港新界坪輋五洲南路丈量約份第 77 約地段 1552 号 A 分段第一小分段

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Foundation	Borehole video inspection test	Hong Kong Housing Authority Materials Testing Services (2024/2026) for Non-destructive Pile Testing Cl. D8 & D10
	Compression static loading test on pile (SLT)	Architectural Services Department General Specification for Building (2017) Section 5.29 Buildings Department Code of Practice for Foundations (2017) Cl. 8.4 General Specification for Civil Engineering Works (2006) Vol. 1 App. 8.1 General Specification for Civil Engineering Works (2020) Vol. 1 App. 8.1 Hong Kong Housing Authority Specification Library (2018) PIL1.T610.8 to PIL1.T1110.8
	Compression static loading test on pile (SLT) using multiple hydraulic jacks and load cells	Buildings Department Code of Practice for Foundations (2017) Cl. 8.4 with modification
	Crosshole sonic logging test (SOLT)	ASTM D6760-08 ASTM D6760-16
	Pile dynamic test (PDA)	ASTM D4945-12 ASTM D4945-17
	Pile integrity test (PIT)	ASTM D5882-07 (Reapproved 2013)
	Pile loading test at a constant rate of penetration	BS 8004: 1986 Cl. 7.5.6
	Plate load test (PLT)	BS 1377: Part 9: 1990 Cl. 4.1 (incremental loading) excluding Cl. 4.1.6.1 Buildings Department Code of Practice for Foundations (Apr 2017) Cl. 8.2(2) excluding 8.2(f) to (h) Hong Kong Housing Authority Specification Library (2022) GIN.T190.9
	Single-hole sonic logging test (SOLT)	ASTM D6760-16
	Tension static loading test on pile (SLT)	Architectural Services Department, Technical Instruction No. 04/2005 Particular Specification for Tension Piles Buildings Department Code of Practice for Foundations (2017) Cl. 8.10
	Ultrasonic echo sounder test (UEST)	Hong Kong Concrete Institute TM3 Issue 2 (2024)

FT Laboratories Limited
科達測檢試驗所有限公司
Lot No. DD77 Section 1552 S.A. ss 1RP, Ng Chow South Road, Ping Che, New Territories, Hong Kong
香港新界坪輋五洲南路丈量約份第 77 約地段 1552 号 A 分段第一小分段

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Foundation (Geotechnical monitoring)	Horizontal ground movement monitoring	In-house method INS 38 (by inclinometer)
	Inclination monitoring	In-house method INS 39 (by electronic sensor) In-house method INS 56 (by inclinometer)
	Monitoring ground movement using probe-type inclinometers	ASTM D6230-13
	Tilt monitoring	In-house method INS 32 (by tiltmeter)
	Vibration monitoring	In-house method INS 09
	Water level monitoring	In-house method INS 55 (by dipmeter) In-house method INS 60 (by vibrating wire piezometer)

FT Laboratories Limited
科達測檢試驗所有限公司
Lot No. DD77 Section 1552 S.A. ss 1RP, Ng Chow South Road, Ping Che, New Territories, Hong Kong
香港新界坪輋五洲南路丈量約份第 77 約地段 1552 号 A 分段第一小分段

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Foundation (other)	Deflection characteristics of pile driving cushion	Deep Foundation Institute: Nov. 1983 (revised Dec. 1984): Standard testing method for deflection characteristics of pile driving cushion materials
	Survey monitoring for pile loading test by digital level	In-house method SVY 005
	Survey monitoring for pile loading test by automatic precise level	In-house method SVY 006

FT Laboratories Limited
科達測檢試驗所有限公司
Lot No. DD77 Section 1552 S.A. ss 1RP, Ng Chow South Road, Ping Che, New Territories, Hong Kong
香港新界坪輋五洲南路丈量約份第 77 約地段 1552 号 A 分段第一小分段

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Ground Granulated Blastfurnace Slag (GGBS)	Moisture content	BS EN 15167-1: 2006 Annex A
Ground water (chemical analysis)	pH value	GEOSPEC 3: 2001 Test 9.5 GEOSPEC 3: 2017 Test 9.5
Grout	Bleeding and free expansion	ASTM C940-16 BS EN 445:2007 Cl. 4.5 (E) General Specification for Civil Engineering Works (2006) Vol. 2 Cl. 17.60 General Specification for Civil Engineering Works (2020) Vol. 2 Cl. 17.60
	Compressive strength of grout cubes in force range 50 kN - 3000 kN	CS1: 1990 + Amd.1201, 1202 & 1203 Section 12 CS1: 2010 Section 12
	Curing of test specimens (Tropical zone temperature)	In-house method GRT 05
	Flow of grout (flow cone method)	ASTM C939-97 ASTM C939-10
	Fluidity Test - Cone Method	BS EN 445:2007 Cl. 4.3.1 (E)
	Making test grout cubes	In-house method GRT 06

FT Laboratories Limited
科達測檢試驗所有限公司
Lot No. DD77 Section 1552 S.A. ss 1RP, Ng Chow South Road, Ping Che, New Territories, Hong Kong
香港新界坪輋五洲南路丈量約份第 77 約地段 1552 号 A 分段第一小分段

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Metallic materials	Bend test of stainless steel bars	BS 6744: 2001 + A2: 2009 BS 6744: 2016
	Brinell hardness test of metallic materials in the scale of HB 2.5 / 187.5	BS EN ISO 6506-1: 1999
	Charpy V-notch impact test	BS EN10045-1: 1990 BS EN ISO 148-1: 2016
	Inter-granular corrosion test of stainless steel bars	BS EN ISO 3651-2: 1998 Method C (excluding welded test specimen)
	Mass per meter of steel reinforcing bars	BS EN ISO 15630-1: 2002 Cl. 12 BS EN ISO 15630-1: 2019 Cl. 12 CS2: 2012 (Rev. 6) Cl. 6.1 & 6.2 in conjunction with the following specification(s) BS 4449: 2005 Cl. 7.3
	Mass per metre square, pitch and dimension of steel fabrics for reinforcement of concrete	BS 4483: 1998 Cl. 6 & 10 BS EN ISO 15630-1: 2002 Cl. 12 in conjunction with the following specifications(s) BS 4483: 2005 Cl. 7.3, 8.1.3.2
	Proof load test of steel nuts in the force range 2 kN to 2000 kN	BS 3692: 2001 Annex C.1
	Rebend test of reinforcing bars, wire rods, welded fabrics or cold reduced wires for reinforcement of concrete	BS EN ISO 15630-1: 2010 Cl. 7 BS EN ISO 15630-1: 2019 Cl. 7 CS2: 2012 (Rev. 6) Cl. 6.1 & 6.5 in conjunction with the following specification(s): BS 4449: 2005 + A2: 2009 Cl. 7.2.5 BS 4483: 1998 Cl. 13.1 BS 4483: 2005 Cl. 7.2.5 & 8.1.3.2
	Rockwell hardness test of metallic materials in the following range 20 HRC to 70 HRC	BS EN ISO 6508-1: 1999
	Tensile test & slip/permanent elongation test of mechanical couplers for reinforcing bar in the force range 2 kN – 2000 kN	BS EN ISO 6892-1: 2009 Cl. 10.3 Method A & ISO 15835-2: 2018 Cl. 5.4 excluding Cl. 5.4.4 in conjunction with the following specification(s): Buildings Department Code of Practice for Structural Use of Concrete (2013) Cl. 3.2.8.3 General specification for Civil Engineering Works (2006) Vol. 2 Cl. 15.35

FT Laboratories Limited
科達測檢試驗所有限公司
Lot No. DD77 Section 1552 S.A. ss 1RP, Ng Chow South Road, Ping Che, New Territories, Hong Kong
香港新界坪輋五洲南路丈量約份第 77 約地段 1552 号 A 分段第一小分段

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Metallic materials (cont'd)	Tensile test of high tensile 7-wire strands in the force range of 2 kN – 2000 kN	BS EN ISO 6892-1: 2019 Cl. 10.3.2 Method A & BS EN ISO 15630-3: 2010 Cl. 5 & BS EN ISO 15630-3: 2019 Cl. 5 in conjunction with the following specification: BS 5896: 2012 Cl. 7.2.2
	Tensile test of machined bolts and screws in the force range of 2 kN – 2000 kN	BS EN ISO 6892-1: 2019 Cl. 10.3.2 Method A in conjunction with the following specification(s): BS 3692: 2001 Cl. 11 & 13 BS EN ISO 898-1: 2013 Cl. 9.7
	Tensile test of metallic materials in the force range of 2kN - 2000kN	BS EN 10002-1: 2001 BS EN ISO 6892-1: 2019 Cl. 10.3.2 Method A in conjunction with the following specification(s): BS EN 10025-1: 2004 Cl. 7.3.1, 9.2.3.2 & Cl. 10.2.1 BS EN 10025-2: 2019 Cl.10.2.1, Table 6 & 7 BS EN 10210-1: 2006 Cl. 6.6.1, 9.2.1 & 9.2.2 BS EN 10219-1: 2006 Cl. 6.7.1, 9.2.1 & 9.2.2
	Tensile test of reinforcing bars, wire rod, welded fabric or cold reduced wire for reinforcement of concrete in the force range 0.2 kN – 2900 kN	BS EN ISO 6892-1: 2009 Cl. 10.3 Method A BS EN ISO 6892-1: 2019 Cl. 10.3.2 Method A in conjunction with the following specification(s): BS 4449: 2005 + A2: 2009 Cl. 7.2.2, 7.2.3, 8.1.3.1 & 9 BS 4483: 1998 Cl. 13.1 BS 4483: 2005 Cl. 7.2.2, 7.2.3, 8.1.3.1 & 9 BS EN ISO 15630-1: 2002 Cl. 5 BS EN ISO 15630-2: 2010 Cl. 5 CS2: 2012 (Rev. 6) Cl. 6.1 & 6.4
	Tensile test of stainless steel bars in the force range of 4 kN – 2000 kN	BS EN 10002-1: 2001 BS EN ISO 6892-1: 2019 Cl. 10.3.2 Method A in conjunction with the following specification(s): BS 6744: 2001 + A2: 2009 BS 6744: 2016
	Tensile test of unmachined specimens of bolts and screws in the force range of 2 kN – 2000 kN	BS EN ISO 6892-1: 2019 Cl. 10.3.2 Method A in conjunction with the following specification(s): BS 3692: 2001 Cl. 11 &13 BS EN ISO 898-1: 1999 Cl. 8.2 BS EN ISO 898-1: 2013 Cl. 9.2

FT Laboratories Limited
科達測檢試驗所有限公司
Lot No. DD77 Section 1552 S.A. ss 1RP, Ng Chow South Road, Ping Che, New Territories, Hong Kong
香港新界坪輋五洲南路丈量約份第 77 約地段 1552 号 A 分段第一小分段

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Metallic materials (cont'd)	Vickers hardness test of metallic materials in the range of HV5, HV10 and HV30	BS EN ISO 6507-1: 1998 BS EN ISO 6507-1: 2018 BS EN ISO 6507-1: 2023
	Weld test of steel fabric for reinforcement of concrete	BS EN ISO 15630-2: 2010 Cl. 7 in conjunction with the following specification(s): BS 4483: 1998 Cl. 13.2 BS 4483: 2005 Cl. 7.2.2 & 7.2.4
Metallic materials (non-destructive)	Ultrasonic testing of H beams with parallel flanges (manual method)	BS EN 10306: 2002
	Ultrasonic testing of steel flat product (reflection method)	BS EN 10160: 1999
	Ultrasonic thickness measurement of metallic materials	BS EN ISO 16809: 2019 (Mode 1, 2, 3 & 4)
Playground equipment	Critical fall height for impact attenuating playground surfacing	BS EN 1177: 2008 BS EN 1177: 2018
	Head injury criteria value for impact absorbing playground surfacing in the height range of 0.6m to 3.5m	BS EN 1177: 1998 (excluding Cl.6.4.3.2 Free falling headform method)
	Impact attenuation on site for impact attenuating playground surface	BS EN 1177: 2018
	Resistance to abrasive wear for impact absorbing playground surfacing	BS 7188: 1998 + A2: 2009 Cl. 4
	Slip resistance for impact absorbing playground surfacing	BS 7188: 1998 + A2: 2009 Cl. 5
	Resistance to indentation	BS 7188: 1998 + A2: 2009 Cl. 6
	Ease of ignition for impact absorbing playground surfacing	BS 7188: 1998 + A2: 2009 Cl. 7
	Tensile properties for impact absorbing playground surfacing	BS 7188: 1998 + A2: 2009 Cl. 8

FT Laboratories Limited
科達測檢試驗所有限公司
Lot No. DD77 Section 1552 S.A. ss 1RP, Ng Chow South Road, Ping Che, New Territories, Hong Kong
香港新界坪輋五洲南路丈量約份第 77 約地段 1552 号 A 分段第一小分段

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Pulverized fuel ash	Moisture content	BS 3892: Part 1: 1997 Annex C
Rock	Direct shear strength of jointed rock	ASTM D5607-95 with modifications International Society for Rock Mechanics (1981) Part 2: Suggested method for determining direct shear strength with modifications
	Point load strength index of rock by diametral and axial tests	ASTM D5731-95 International Society for Rock Mechanics (1985) Suggested method for determining point load strength
	Porosity and density using saturation and caliper techniques	International Society for Rock Mechanics (1977) Part 1 Method 2: Suggested method for porosity/density determination using saturation and caliper techniques with modifications
	Porosity and density using saturation and buoyancy techniques	International Society for Rock Mechanics (1977) Part 1 Method 3: Suggested method for porosity/density determination using saturation and buoyancy techniques with modifications
	Preparation of rock core specimens and determination of dimensional and shape tolerances	ASTM D4543-01 with modifications
	Unconfined compression strength of intact rock core specimens	ASTM D2938-95 with modifications ASTM D7012-14 Method C
	Water content of rock	ASTM D2216-98

FT Laboratories Limited
科達測檢試驗所有限公司
Lot No. DD77 Section 1552 S.A. ss 1RP, Ng Chow South Road, Ping Che, New Territories, Hong Kong
香港新界坪輋五洲南路丈量約份第 77 約地段 1552 号 A 分段第一小分段

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Soil (Phase I)	Moisture content by oven-drying at 45°C ± 5°C	GEOSPEC 3: 2001 Test 5.1 GEOSPEC 3: 2017 Test 5.1
	Moisture content by oven-drying at 105°C ± 5°C	GEOSPEC 3: 2001 Test 5.2 GEOSPEC 3: 2017 Test 5.2
	Comparative test for the determination of moisture content by oven-drying	GEOSPEC 3: 2001 Test 5.3 GEOSPEC 3: 2017 Test 5.3
	Liquid limit, plastic limit and plasticity index	GEOSPEC 3: 2001 Test 6.1 GEOSPEC 3: 2017 Test 6.1
	Liquidity index	GEOSPEC 3: 2001 Test 6.2 GEOSPEC 3: 2017 Test 6.2
	Particle density by gas jar method	GEOSPEC 3: 2001 Test 7.1 GEOSPEC 3: 2017 Test 7.1
	Particle density by small pyknometer method	GEOSPEC 3: 2001 Test 7.2 GEOSPEC 3: 2017 Test 7.2
	Particle size distribution by wet sieving (with dispersant)	GEOSPEC 3: 2001 Test 8.1 GEOSPEC 3: 2017 Test 8.1
	Particle size distribution by wet sieving (without dispersant)	GEOSPEC 3: 2001 Test 8.2 GEOSPEC 3: 2017 Test 8.2
	Particle size distribution by hydrometer (with dispersant)	GEOSPEC 3: 2001 Test 8.5 GEOSPEC 3: 2017 Test 8.5
	Particle size distribution by hydrometer (without dispersant)	GEOSPEC 3: 2001 Test 8.6 GEOSPEC 3: 2017 Test 8.6
	Construction of a continuous particle size distribution curve from the results of wet sieving and sedimentation tests	GEOSPEC 3: 2001 Test 8.7 GEOSPEC 3: 2017 Test 8.7

FT Laboratories Limited
科達測檢試驗所有限公司
Lot No. DD77 Section 1552 S.A. ss 1RP, Ng Chow South Road, Ping Che, New Territories, Hong Kong
香港新界坪輋五洲南路丈量約份第 77 約地段 1552 号 A 分段第一小分段

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Soil (Phase I) (cont'd)	Density of soil by linear measurement method	BS1377: Part 2: 1990 Cl. 7.2
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a 1000cc mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.1 GEOSPEC 3: 2017 Test 10.1
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a 1000cc mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.2 GEOSPEC 3: 2017 Test 10.2
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a CBR mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.3 GEOSPEC 3: 2017 Test 10.3
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a CBR mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.4 GEOSPEC 3: 2017 Test 10.4
	Dry density / moisture content relationship of soils containing particles which are not susceptible to crushing (using a 1000cc mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.5 GEOSPEC 3: 2017 Test 10.5
	Dry density / moisture content relationship of soils containing particles which are susceptible to crushing (using a 1000cc mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.6 GEOSPEC 3: 2017 Test 10.6
	Dry density / moisture content relationship of soils containing particles which are not susceptible to crushing (using a CBR mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.7 GEOSPEC 3: 2017 Test 10.7
	Dry density / moisture content relationship of soils containing particles which are susceptible to crushing (using a CBR mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.8 GEOSPEC 3: 2017 Test 10.8

FT Laboratories Limited
科達測檢試驗所有限公司
Lot No. DD77 Section 1552 S.A. ss 1RP, Ng Chow South Road, Ping Che, New Territories, Hong Kong
香港新界坪輋五洲南路丈量約份第 77 約地段 1552 号 A 分段第一小分段

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Soil (Phase I) (cont'd)	In-situ bulk density and in-situ dry density of soils by the sand replacement method suitable for fine- and medium-grained soils (with small pouring cylinder)	GEOSPEC 3: 2001 Test 11.1 GEOSPEC 3: 2017 Test 11.1
	In-situ bulk density and in-situ dry density of soils by the sand replacement method suitable for fine-, medium-, and coarse-grained soils (with large pouring cylinder)	GEOSPEC 3: 2001 Test 11.2 GEOSPEC 3: 2017 Test 11.2
	In-situ bulk density and in-situ dry density of soils by nuclear densometer method suitable for fine- and medium-grained soils	GEOSPEC 3: 2001 Test 11.3
	In-place density and water content of soil and soil-aggregate by nuclear methods (shallow depth)	ASTM D6938-17a
	Relative compaction of fill material	GEOSPEC 3: 2001 Test 11.4 GEOSPEC 3: 2017 Test 11.4
	California Bearing Ratio (CBR)	GEOSPEC 3: 2001 Test 12.1 GEOSPEC 3: 2017 Test 12.1
Soil (Phase II)	One-dimensional consolidation test	GEOSPEC 3: 2001 Test 14.1 GEOSPEC 3: 2017 Test 14.1
	Isotropic compression test in a triaxial cell	GEOSPEC 3: 2001 Test 14.2 GEOSPEC 3: 2017 Test 14.2
	Unconsolidated undrained triaxial compression test without pore pressure measurement	GEOSPEC 3: 2001 Test 15.1 GEOSPEC 3: 2017 Test 15.1
	Isotropically consolidated undrained triaxial compression test with pore pressure measurement	GEOSPEC 3: 2001 Test 15.2 GEOSPEC 3: 2017 Test 15.2
	Isotropically consolidated drained triaxial compression test with measurement volume change	GEOSPEC 3: 2001 Test 15.3 GEOSPEC 3: 2017 Test 15.3
	Direct shear test (small shear box apparatus)	GEOSPEC 3: 2001 Test 16.1 GEOSPEC 3: 2017 Test 16.1

FT Laboratories Limited
科達測檢試驗所有限公司
Lot No. DD77 Section 1552 S.A. ss 1RP, Ng Chow South Road, Ping Che, New Territories, Hong Kong
香港新界坪輋五洲南路丈量約份第 77 約地段 1552 号 A 分段第一小分段

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Soil (Phase II) (cont'd)	Triaxial test on loosely compaction fill material	In-house method SOL 055
Soil (other)	GCO probe test	GEOGUIDE 2 Section 23 (Dynamic Probing) General Specification for Civil Engineering Works (2006) Vol. 1 App. 7.1
	Lift-off test of ground anchors	GEOSPEC 1 App. A.16
	Pre-bored pressure meter testing in soil	ASTM D4719-00
	Pull-out test of soil nails	General Specification for Civil Engineering Works (2006) Vol. 1 Cl. 7.138 Hong Kong Housing Authority Specification Library (2022) SLO.T320.9
	Pull-out capacity of the steel wire mesh embedded in compacted frictional fill	In-house method SOL 054
	Time domain reflectometry (TDR) test on soil nails	Geotechnical Engineering Office Guidelines on Test Procedure using Time Domain Reflectometry (TDR) to determine the length of installed soil nails (July 2007)
Structural fixings	Tensile test of anchors by incremental loading in the force range 1 kN – 1000 kN	BS 5080: Part 1: 1993 Cl. 6, 7.1.1 & 7.1.3
	Tensile proof load test of drilled-in anchors used for cantilevered structure/hanger/curtain wall remedial works by incremental loading in the force range 1 kN – 1000 kN	Buildings Department PNAP APP-169 (Oct 2023) App. A
	Tensile proof load test of drilled-in anchors used for works other than cantilevered structure/ hanger/curtain wall remedial works in the force range 1 kN – 1000 kN	Buildings Department PNAP APP-169 (Oct 2023) App. B

FT Laboratories Limited
科達測檢試驗所有限公司
Lot No. DD77 Section 1552 S.A. ss 1RP, Ng Chow South Road, Ping Che, New Territories, Hong Kong
香港新界坪輋五洲南路丈量約份第 77 約地段 1552 号 A 分段第一小分段

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Welds (destructive)	Bend test on welded reinforcement steel	BS EN ISO 17660-1: 2006 Cl. 14.4
	Bend test on welds in metallic materials	BS EN 910: 1996 BS EN ISO 5173: 2010 + A1: 2011
	Charpy V-notch impact test on welds in metallic materials	BS EN 875: 1995 BS EN ISO 9016: 2012 BS EN ISO 9016: 2022
	Fracture test on welds in metallic materials	BS EN 1320: 1997 BS EN ISO 9017: 2013 BS EN ISO 9017: 2018
	Longitudinal tensile test on welds in metallic materials in the force range 2 kN –2000 kN	BS EN 876: 1995
	Macroscopic examination on welds in metallic materials	BS EN 1321: 1997 BS EN ISO 17639: 2013 BS EN ISO 17639: 2022
	Tensile test on welded reinforcement steel in the force range 2 kN – 2000 kN	BS EN ISO 17660-1: 2006 Cl. 14.1 & Cl. 14.2
	Transverse tensile test on welds in metallic materials in the force range 2 kN –2000 kN	BS EN 895: 1995 BS EN ISO 4136: 2012 BS EN ISO 4136: 2022
	Vickers hardness test on welded joints in the scale of HV 5, HV 10 & HV 30	BS EN 1043-1: 1996 BS EN ISO 9015-1: 2011

FT Laboratories Limited
科達測檢試驗所有限公司
Lot No. DD77 Section 1552 S.A. ss 1RP, Ng Chow South Road, Ping Che, New Territories, Hong Kong
香港新界坪輋五洲南路丈量約份第 77 約地段 1552 号 A 分段第一小分段

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Welds (non-destructive)	Liquid penetrant test (Colour contrast method)	BS EN 571-1: 1997 BS EN ISO 3452-1: 2013 BS EN ISO 3452-1: 2021 in conjunction with the following specification(s): BS 5135: 1984 Table 18 & 19 BS EN 1289: 1998 Table 1 BS EN 25817: 1992 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table14.3b & Cl. 14.3.6.7
	Magnetic particle test (Magnetic flow method, colour contrast technique using permanent magnets, D.C. and A.C. yokes)	BS EN 1290: 1998 BS EN ISO 9934-1: 2001 BS EN ISO 9934-1: 2016 BS EN ISO 17638: 2009 BS EN ISO 17638: 2016 in conjunction with the following specification(s): BS 5135: 1984 Table 18 & 19 BS EN 1291: 1998 Table 1 BS EN 25817: 1992 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table14.3b & Cl. 14.3.6.7
	Radiographic examination (Gamma Ray & X-ray)	BS EN 1435: 1997 BS EN ISO 17636-1: 2013 in conjunction with the following specification(s): BS 5135: 1984 Table 18 & 19 BS EN 12517: 1998
	Ultrasonic test (Butt welds in plates and pipes, 'T' joint welds and nozzle welds)	BS EN 1714: 1998 (Level A, B, & C) BS EN ISO 17640: 2010 (Level A, B, & C) BS EN ISO 17640: 2018 (Level A, B, & C) in conjunction with the following specification(s): BS 5135: 1984 Table 18 BS 5400-6: 1999 Cl. 5.5.2.4.2 BS EN 1712: 1997 BS EN 25817: 1992 Table 1 BS EN ISO 11666: 2010 Annex A BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table14.3b & Cl. 14.3.6.7

FT Laboratories Limited
科達測檢試驗所有限公司
Lot No. DD77 Section 1552 S.A. ss 1RP, Ng Chow South Road, Ping Che, New Territories, Hong Kong
香港新界坪輋五洲南路丈量約份第 77 約地段 1552 号 A 分段第一小分段

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Welds (non-destructive) (cont'd)	Visual examination	BS EN 970: 1997 BS EN ISO 17637: 2011 BS EN ISO 17637: 2016 in conjunction with the following specification(s): BS 5135: 1984 Table 18 & 19 BS EN 25817: 1992 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table14.3b & Cl. 14.3.6.7
	Visual examination and bend test on stud connectors	<Visual examination as follows:> BS EN 970: 1997 BS EN ISO 17637: 2011 BS EN ISO 17637: 2016 <together with the following bend test method(s):> BS EN ISO 14555: 2017 Cl. 11.2, 11.3 (excluding Torque wrench method), 12.2 & 12.3 Buildings Department Code of Practice for the Structural Use of Steel (2011) Cl. 14.3.7.3

FT Laboratories Limited
科達測檢試驗所有限公司
Lot No. DD77 Section 1552 S.A. ss 1RP, Ng Chow South Road, Ping Che, New Territories, Hong Kong
香港新界坪輋五洲南路丈量約份第 77 約地段 1552 号 A 分段第一小分段

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Water and Wastewater	Non-metallic Constituents : Chloride	 APHA 19e 4500-Cl^- B

TÜ V Rheinland Hong Kong Limited
香港德國萊茵技術監護顧問股份有限公司

ADDRESS 地址	:	3/F, Fou Wah Industrial Building, 10-16 Pun Shan Street, Tsuen Wan, New Territories, Hong Kong. 香港新界荃灣半山街10至16號富華工業大廈三樓
ENQUIRY 查詢	:	Mr Jacky CHAN Wai-tak, Vice General Manager 陳維德先生，副總經理
TELEPHONE 電話	:	2192 1000
FAX 傳真	:	2192 1001
E-MAIL 電郵	:	service-gc@tuv.com
WEBSITE ADDRESS 網址	:	www.tuv.com/en/greater_china/home.jsp
CLIENTELE 服務對象	:	Public 公眾

TÜ V Rheinland Hong Kong Limited
香港德國萊茵技術監護顧問股份有限公司

ADDRESS **地址**	:	3/F & 4/F, Fou Wah Industrial Building, 10-16 Pun Shan Street, Tsuen Wan, New Territories, Hong Kong. 香港新界荃灣半山街 10 至 16 號富華工業大廈三及四樓
ACCREDITED TEST CATEGORIES **認可測試類別**	:	Testing Required by the China Compulsory Certification System (CCC) 中國強制性產品認證制度規定的檢測 Chemical Testing 化學測試 Electrical and Electronic Products 電氣及電子產品 Toys and Children's Products 玩具及兒童產品

TÜ V Rheinland Hong Kong Limited
香港德國萊茵技術監護顧問股份有限公司
3/F & 4/F, Fou Wah Industrial Building, 10-16 Pun Shan Street, Tsuen Wan, New Territories, Hong Kong.
香港新界荃灣半山街 10 至 16 號富華工業大廈三及四樓

Testing Required by the China Compulsory Certification System (CCC) 中國強制性產品認證制度規定的檢測

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Household and similar use appliances 家用和類似用途設備		
- Appliance for heating liquids *(0717)* ***<Excluding the following>*** - Appliance with degree of protection IP5X, IP6X, IPX5, IPX6 and IPX8 - Appliance using rubber parts as supplementary insulation - Appliance using software in protective electronic circuits	Safety tests as specified in CNCA-C07-01: 2024	GB 4706.1-2005 GB 4706.19-2008
- 液體加熱器（*0717*） ***<不包括>*** - 外殼防護等級 IP5X, IP6X, IPX5, IPX6 及 IPX8 的器具 - 使用橡膠部件作為附加絕緣的器具 - 在保護電子電路中使用軟件控制器的器具	CNCA-C07-01: 2024 有關規定的安全檢測項目	GB 4706.1-2005 GB 4706.19-2008
- Appliance for skin or hair care *(0709)* ***<Excluding the following>*** - Appliance with degree of protection IP5X, IP6X, IPX5, IPX6 and IPX8 - Appliance using rubber parts as supplementary insulation - Appliance using software in protective electronic circuits	All required tests as specified in CNCA-C07-01: 2024 - Safety tests - EMC tests	GB 4706.1-2005 GB 4706.15-2008 GB 4343.1-2018 GB 17625.1-2022
- 皮膚和毛髮護理器具（*0709*） ***<不包括>*** - 外殼防護等級 IP5X, IP6X, IPX5, IPX6 及 IPX8 的器具 - 使用橡膠部件作為附加絕緣的器具 - 在保護電子電路中使用軟件控制器的器具	CNCA-C07-01: 2024 有關規定的所有檢測項目 - 安全檢測項目 - 電磁兼容檢測項目	GB 4706.1-2005 GB 4706.15-2008 GB 4343.1-2018 GB 17625.1-2022

TÜ V Rheinland Hong Kong Limited
香港德國萊茵技術監護顧問股份有限公司
3/F & 4/F, Fou Wah Industrial Building, 10-16 Pun Shan Street, Tsuen Wan, New Territories, Hong Kong.
香港新界荃灣半山街 10 至 16 號富華工業大廈三及四樓

Testing Required by the China Compulsory Certification System (CCC) 中國強制性產品認證制度規定的檢測

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Household and similar use appliances (cont'd) 家用和類似用途設備(續上)		
- Electric iron *(0710)* ***<Excluding the following>*** - Electric iron with degree of protection IP5X, IP6X, IPX5, IPX6 and IPX8 - Electric iron using rubber parts as supplementary insulation - Electric iron using software in protective electronic circuits	All required tests as specified in CNCA-C07-01: 2024 - Safety tests - EMC tests	GB 4706.1-2005 GB 4706.2-2007 GB 4343.1-2018 GB 17625.1-2022
- 電熨斗 *(0710)* ***<不包括>*** - 外殼防護等級 IP5X, IP6X, IPX5, IPX6 及 IPX8 的電熨斗 - 使用橡膠部件作為附加絕緣的電熨斗 - 在保護電子電路中使用軟件控制器的電熨斗	CNCA-C07-01: 2024 有關規定的所有檢測項目 - 安全檢測項目 - 電磁兼容檢測項目	GB 4706.1-2005 GB 4706.2-2007 GB 4343.1-2018 GB 17625.1-2022
- Electric oven *(0712)* ***<Excluding the following>*** - Electric oven with degree of protection IP5X, IP6X, IPX5, IPX6 and IPX8 - Electric oven using rubber parts as supplementary insulation - Electric oven using software in protective electronic circuits	Safety tests as specified in CNCA-C07-01: 2024	GB 4706.1-2005 GB 4706.14-2008
- 電烤箱 *(0712)* ***<不包括>*** - 外殼防護等級 IP5X, IP6X, IPX5, IPX6 及 IPX8 的電烤箱 - 使用橡膠部件作為附加絕緣的電烤箱 - 在保護電子電路中使用軟件控制器的電烤箱	CNCA-C07-01: 2024 有關規定的安全檢測項目	GB 4706.1-2005 GB 4706.14-2008

TÜ V Rheinland Hong Kong Limited
香港德國萊茵技術監護顧問股份有限公司
3/F & 4/F, Fou Wah Industrial Building, 10-16 Pun Shan Street, Tsuen Wan, New Territories, Hong Kong.
香港新界荃灣半山街 10 至 16 號富華工業大廈三及四樓

Testing Required by the China Compulsory Certification System (CCC) 中國強制性產品認證制度規定的檢測

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Household and similar use appliances (cont'd) 家用和類似用途設備(續上)		
- Microwave oven *(0714)* ***<Excluding the following>*** - Microwave oven with degree of protection IP5X, IP6X, IPX5, IPX6 and IPX8 - Microwave oven using rubber parts as supplementary insulation - Microwave oven using software in protective electronic circuits	Safety tests as specified in CNCA-C07-01: 2024	GB 4706.1-2005 GB 4706.21-2008
- 微波爐 *(0714)* ***〈不包括〉*** - 外殼防護等級 IP5X, IP6X, IPX5, IPX6 及 IPX8 的微波爐 - 使用橡膠部件作為附加絕緣的微波爐 - 在保護電子電路中使用軟件控制器的微波爐	CNCA-C07-01: 2024 有關規定的安全檢測項目	GB 4706.1-2005 GB 4706.21-2008
- Electric rice cooker *(0718)* ***<Excluding the following>*** - Electric rice cooker with degree of protection IP5X, IP6X, IPX5, IPX6 and IPX8 - Electric rice cooker using rubber parts as supplementary insulation - Electric rice cooker using software in protective electronic circuits	All required tests as specified in CNCA-C07-01: 2024 - Safety tests - EMC tests	GB 4706.1-2005 GB 4706.19-2008 GB 4343.1-2018 GB 17625.1-2022
- 電飯鍋 *(0718)* ***〈不包括〉*** - 外殼防護等級 IP5X, IP6X, IPX5, IPX6 及 IPX8 的電飯鍋 - 使用橡膠部件作為附加絕緣的電飯鍋 - 在保護電子電路中使用軟件控制器的電飯鍋	CNCA-C07-01: 2024 有關規定的所有檢測項目 - 安全檢測項目 - 電磁兼容檢測項目	GB 4706.1-2005 GB 4706.19-2008 GB 4343.1-2018 GB 17625.1-2022

TÜ V Rheinland Hong Kong Limited
香港德國萊茵技術監護顧問股份有限公司
3/F & 4/F, Fou Wah Industrial Building, 10-16 Pun Shan Street, Tsuen Wan, New Territories, Hong Kong.
香港新界荃灣半山街 10 至 16 號富華工業大廈三及四樓

Testing Required by the China Compulsory Certification System (CCC) 中國強制性產品認證制度規定的檢測

ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Household and similar use appliances (cont'd) 家用和類似用途設備(續上)		
- Vacuum cleaner *(0708)* ***<Excluding the following>***	All required tests as specified in CNCA-C07-01: 2024	
- Vacuum cleaner with degree of protection IP5X, IP6X, IPX5, IPX6 and IPX8	- Safety tests	GB 4706.1-2005 GB 4706.7-2014
- Vacuum cleaner using rubber parts as supplementary insulation		
- Vacuum cleaner using software in protective electronic circuits	- EMC tests	GB 4343.1-2018 GB 17625.1-2022
- 真空吸塵器 *(0708)* ***<不包括>***	CNCA-C07-01: 2024 有關規定的所有檢測項目	
- 外殼防護等級 IP5X, IP6X, IPX5, IPX6 及 IPX8 的吸塵器	- 安全檢測項目	GB 4706.1-2005 GB 4706.7-2014
- 使用橡膠部件作為附加絕緣的吸塵器		
- 在保護電子電路中使用軟件控制器的吸塵器	- 電磁兼容檢測項目	GB 4343.1-2018 GB 17625.1-2022

TÜ V Rheinland Hong Kong Limited
香港德國萊茵技術監護顧問股份有限公司
3/F & 4/F, Fou Wah Industrial Building, 10-16 Pun Shan Street, Tsuen Wan, New Territories, Hong Kong.
香港新界荃灣半山街 10 至 16 號富華工業大廈三及四樓

Testing Required by the China Compulsory Certification System (CCC) 中國強制性產品認證制度規定的檢測

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Electronic product and safety accessory 電子產品及安全附件		
- Display unit for use with a computer *(0903)* ***<Excluding the following>*** - Cathode ray tube display unit - Equipment using coatings on printed circuit board or component or external termination - Equipment with fire enclosure - Equipment using insulated winding wires without interleaved insulation	All required tests as specified in CNCA-C09-01: 2023 - Safety tests - EMC tests	GB 4943.1-2022 GB/T 9254.1-2021 GB 17625.1-2022
- 與計算機連用的顯示設備（*0903*） ***<不包括>*** - 使用陰極射線管的顯示設備 - 在印刷電路板上或元器件或外部接綫端子使用塗層的設備 - 使用防火防護外殼的設備 - 使用無隔層絕緣的絕緣繞組綫的設備	CNCA-C09-01: 2023 有關規定的所有檢測項目 - 安全檢測項目 - 電磁兼檢測項目	GB 4943.1-2022 GB/T 9254.1-2021 GB 17625.1-2022
- Power supply 電源		
- Power adapter for audio and video apparatus *(0807)* ***<Excluding the following>*** - Equipment using coatings on printed circuit board or component or external termination - Equipment with fire enclosure - Equipment using insulated winding wires without interleaved insulation	All required tests as specified in CNCA-C09-01: 2023 - Safety tests - EMC tests	GB 4943.1-2022 GB/T 9254.1-2021 GB 17625.1-2022
- 音視頻設備配套的電源適配器（*0807*） ***<不包括>*** - 在印刷電路板上或元器件或外部接綫端子使用塗層的設備 - 使用防火防護外殼的設備 - 使用無隔層絕緣的絕緣繞組綫的設備	CNCA-C09-01: 2023 有關規定的所有檢測項目 - 安全檢測項目 - 電磁兼檢測項目	GB 4943.1-2022 GB/T 9254.1-2021 GB 17625.1-2022

TÜ V Rheinland Hong Kong Limited
香港德國萊茵技術監護顧問股份有限公司
3/F & 4/F, Fou Wah Industrial Building, 10-16 Pun Shan Street, Tsuen Wan, New Territories, Hong Kong.
香港新界荃灣半山街 10 至 16 號富華工業大廈三及四樓

Testing Required by the China Compulsory Certification System (CCC) 中國強制性產品認證制度規定的檢測

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Electronic product and safety accessory 電子產品及安全附件		
- Power supply 電源		
- Built-in power supply, adaptor or charger for a computer *(0907)* ***<Excluding the following>***	All required tests as specified in CNCA-C09-01: 2023	
- Equipment using coatings on printed circuit board or component or external termination	- Safety tests	GB 4943.1-2022
- Equipment with fire enclosure	- EMC tests	GB/T 9254.1-2021
- Equipment using insulated winding wires without interleaved insulation		GB 17625.1-2022
- 計算機的內置電源、電源適配器或充電器（*0907*） ***<不包括>***	CNCA-C09-01: 2023 有關規定的所有檢測項目	
- 在印刷電路板上或元器件或外部接綫端子使用塗層的設備	- 安全檢測項目	GB 4943.1-2022
- 使用防火防護外殼的設備	- 電磁兼檢測項目	GB/T 9254.1-2021
- 使用無隔層絕緣的絕緣繞組綫的設備		GB 17625.1-2022

TÜ V Rheinland Hong Kong Limited
香港德國萊茵技術監護顧問股份有限公司
3/F & 4/F, Fou Wah Industrial Building, 10-16 Pun Shan Street, Tsuen Wan, New Territories, Hong Kong.
香港新界荃灣半山街 10 至 16 號富華工業大廈三及四樓

Testing Required by the China Compulsory Certification System (CCC) 中國強制性產品認證制度規定的檢測

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Lighting apparatus 照明電器		
- Luminaire *(1001)* 燈具（*1001*）		
- Fixed general purpose luminaire ***<Excluding the following>*** - Luminaire with degree of protection IP5X, IP6X, IP5, IP6X and IPX8 - Luminaire using tungsten halogen lamp or metal halide lamp - Luminaire containing contacts and other parts made of rolled copper or copper alloy sheet - Rough service luminaire	All required tests as specified in CNCA-C10-01: 2014 - Safety tests - EMC tests	GB 7000.1-2015 GB 7000.201-2008 GB/T 17743-2021 GB 17625.1-2022
- 固定式通用燈具 ***<不包括>*** - 外殼防護等級 IP5X, IP6X, IP5, IP6 及 IPX8 的燈具 - 使用鹵鎢燈或金屬鹵化物燈的燈具 - 含軋製銅材或銅合金片製成的接觸件和其他部件的燈具 - 在惡劣條件下使用的燈具	CNCA-C10-01: 2014 有關規定的所有檢測項目 - 安全檢測項目 - 電磁兼容檢測項目	GB 7000.1-2015 GB 7000.201-2008 GB/T 17743-2021 GB 17625.1-2022
- Recessed luminaire ***<Excluding the following>*** - Luminaire with degree of protection IP5X, IP6X, IP5, IP6X and IPX8 - Luminaire using tungsten halogen lamp or metal halide lamp - Luminaire containing contacts and other parts made of rolled copper or copper alloy sheet - Rough service luminaire	All required tests as specified in CNCA-C10-01: 2014 - Safety tests - EMC tests	GB 7000.1-2015 GB 7000.202-2008 GB/T 17743-2021 GB 17625.1-2022
- 嵌入式燈具 ***<不包括>*** - 外殼防護等級 IP5X, IP6X, IP5, IP6X 及 IPX8 的燈具 - 使用鹵鎢燈或金屬鹵化物燈的燈具 - 含軋製銅材或銅合金片製成的接觸件和其他部件的燈具 - 在惡劣條件下使用的燈具	CNCA-C10-01: 2014 有關規定的所有檢測項目 - 安全檢測項目 - 電磁兼容檢測項目	GB 7000.1-2015 GB 7000.202-2008 GB/T 17743-2021 GB 17625.1-2022

TÜ V Rheinland Hong Kong Limited
香港德國萊茵技術監護顧問股份有限公司
3/F & 4/F, Fou Wah Industrial Building, 10-16 Pun Shan Street, Tsuen Wan, New Territories, Hong Kong.
香港新界荃灣半山街 10 至 16 號富華工業大廈三及四樓

Testing Required by the China Compulsory Certification System (CCC) 中國強制性產品認證制度規定的檢測

ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Lighting apparatus (cont'd) 照明電器(續上)		
- Luminaires *(1001)* (cont'd) 燈具*（1001）*(續上)		
- Portable general purpose luminaire ***<Excluding the following>*** - Luminaire with degree of protection IP5X, IP6X, IPX5, IPX6 and IPX8 - Luminaire using tungsten halogen lamp or metal halide lamp - Luminaire containing contacts and other parts made of rolled copper or copper alloy sheet - Rough service luminaire	All required tests as specified in CNCA-C10-01: 2014 - Safety tests - EMC tests	GB 7000.1-2015 GB 7000.204-2008 GB/T 17743-2021 GB 17625.1-2022
- 可移式通用燈具 ***<不包括>*** - 外殼防護等級 IP5X, IP6X, IPX5, IPX6 及 IPX8 的燈具 - 使用鹵鎢燈或金屬鹵化物燈的燈具 - 含軋製銅材或銅合金片製成的接觸件和其他部件的燈具 - 在惡劣條件下使用的燈具	CNCA-C10-01: 2014 有關規定的所有檢測項目 - 安全檢測項目 - 電磁兼容檢測項目	GB 7000.1-2015 GB 7000.204-2008 GB/T 17743-2021 GB 17625.1-2022

TÜ V Rheinland Hong Kong Limited
香港德國萊茵技術監護顧問股份有限公司
3/F & 4/F, Fou Wah Industrial Building, 10-16 Pun Shan Street, Tsuen Wan, New Territories, Hong Kong.
香港新界荃灣半山街 10 至 16 號富華工業大廈三及四樓

Chemical Testing 化學測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術	
Products made of plastic	- Cadmium content :	Regulation (EC) No. 1907/2006 on REACH Annex XVII Item No 23 as amended by Commission Regulation (EC) No. 494/2011 and Corr. *Test procedures for compliance testing for Cadmium content in plastics:-* EN 1122: 2001 (Wet decomposition: method B) BS EN 1122: 2001 (Wet decomposition: method B) DIN EN 1122: 2002 (Wet decomposition: method B)	.vs. .vs. .vs. .vs.

TÜ V Rheinland Hong Kong Limited
香港德國萊茵技術監護顧問股份有限公司
3/F & 4/F, Fou Wah Industrial Building, 10-16 Pun Shan Street, Tsuen Wan, New Territories, Hong Kong.
香港新界荃灣半山街 10 至 16 號富華工業大廈三及四樓

Electrical and Electronic Products 電氣及電子產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	EMC tests :- Emission tests	
Intentional radiator	- Measurement of radiated emission (at Hong Kong Productivity Council (HKPC)) - 9 kHz to 40 GHz - Measurement of conducted emission - 150 kHz to 30 MHz	47 CFR Part 15 Subpart A and Subpart C using test methods specified in ANSI C63.10-2013

TÜ V Rheinland Hong Kong Limited
香港德國萊茵技術監護顧問股份有限公司
3/F & 4/F, Fou Wah Industrial Building, 10-16 Pun Shan Street, Tsuen Wan, New Territories, Hong Kong.
香港新界荃灣半山街 10 至 16 號富華工業大廈三及四樓

Electrical and Electronic Products 電氣及電子產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	EMC tests :- (cont'd) Emission tests (cont'd)	
Licence-exempt radio apparatus: category I equipment	- Measurement of radiated emission (at HKPC) - 9 kHz to 40 GHz - Measurement of conducted emission - 150 kHz to 30 MHz - Measurement of conducted emission at antenna terminal - 9 kHz to 30 GHz	RSS-210 Issue 10, December 2019 + Amendment (April 2020) in conjunction with RSS-Gen Issue 5, April 2018 + Amendment 1 (March 2019) + Amendment 2 (February 2021) using test methods specified in ANSI C63.10: 2013
Licence-exempt radio apparatus: category II equipment	- Measurement of radiated emission (at HKPC) - 9 kHz to 40 GHz - Measurement of conducted emission - 150 kHz to 30 MHz - Measurement of conducted emission at antenna terminal - 9 kHz to 30 GHz	RSS-310 Issue 5, January 2020 in conjunction with RSS-Gen Issue 5, April 2018 + Amendment 1 (March 2019) + Amendment 2 (February 2021) using test methods specified in ANSI C63.10: 2013
Digital Transmission System, Frequency Hopping System and Licence- Exempt Local Area Network Devices	- Measurement of radiated emission (at HKPC) - 9 kHz to 40 GHz - Measurement of conducted emission - 150 kHz to 30 MHz - Measurement of conducted emission at antenna terminal - 9 kHz to 30 GHz	RSS-247 Issue 3, August 2023 in conjunction with RSS-Gen Issue 5, April 2018 + Amendment 1 (March 2019) + Amendment 2 (February 2021) using test methods specified in ANSI C63.10: 2013

TÜ V Rheinland Hong Kong Limited
香港德國萊茵技術監護顧問股份有限公司
3/F & 4/F, Fou Wah Industrial Building, 10-16 Pun Shan Street, Tsuen Wan, New Territories, Hong Kong.
香港新界荃灣半山街 10 至 16 號富華工業大廈三及四樓

Electrical and Electronic Products 電氣及電子產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	EMC tests :- (cont'd) Emission tests (cont'd)	
Household appliance, electric tool and similar apparatus < ***Excluding the following*** > - three phase equipment	- Measurement of terminal disturbance voltages - 9 kHz to 30 MHz - Measurement of disturbance power - 30 MHz to 300 MHz - Measurement of radiated disturbance (at HKPC) - 9 kHz to 1000 MHz - Measurement of magnetic field induced current - 9 kHz to 30 MHz	AS CISPR 14.1: 2018 CISPR 14-1: 2016 EN 55014-1: 2017
	- Measurement of terminal disturbance voltages - 9 kHz to 30 MHz - Measurement of disturbance power - 30 MHz to 300 MHz - Measurement of radiated disturbance (at HKPC) - 9 kHz to 6 GHz - Measurement of magnetic field induced current - 9 kHz to 30 MHz	CISPR 14-1: 2020 EN IEC 55014-1: 2021
Electric and electronic toys	- Measurement of terminal disturbance voltages - 9 kHz to 30 MHz - Measurement of disturbance power - 30 MHz to 300 MHz - Measurement of radiated disturbance (at HKPC) - 9 kHz to 1000 MHz - Measurement of magnetic field induced current - 9 kHz to 30 MHz	AS CISPR 14.1: 2018 CISPR 14-1: 2016 EN 55014-1: 2017
	- Measurement of terminal disturbance voltages - 9 kHz to 30 MHz - Measurement of disturbance power - 30 MHz to 300 MHz - Measurement of radiated disturbance (at HKPC) - 9 kHz to 6 GHz - Measurement of magnetic field induced current - 9 kHz to 30 MHz	CISPR 14-1: 2020 EN IEC 55014-1: 2021

TÜ V Rheinland Hong Kong Limited
香港德國萊茵技術監護顧問股份有限公司
3/F & 4/F, Fou Wah Industrial Building, 10-16 Pun Shan Street, Tsuen Wan, New Territories, Hong Kong.
香港新界荃灣半山街 10 至 16 號富華工業大廈三及四樓

Electrical and Electronic Products 電氣及電子產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	EMC tests :- (cont'd) Emission tests (cont'd)	
Industrial, scientific and medical (ISM) equipment < ***Excluding the following*** > - three phase equipment - electric wedding equipment - ISM RF lighting equipment - medium voltage and high voltage switchgear - grid connected power converters	- Measurement of terminal disturbance voltages - 150 kHz to 30 MHz - Measurement of radiated disturbance (at HKPC) - 150 kHz to 18 GHz	AS CISPR 11: 2017 CISPR 11: 2015 + A1: 2016 + A2: 2019 EN 55011: 2016 + A1: 2017 + A11: 2020 + A2: 2021 ***<Excluding the following>*** for the above three standards Cl. 6.4, 7.5.3.2, 7.6.7, 7.6.8, 7.6.9, 7.6.10, 8.2.2, 9.4.4.2.3 and 10; Table 11
Lighting equipment and luminaire	- Measurement of conducted disturbance voltages at mains terminals, load terminals and control terminals - 9 kHz to 30 MHz - Measurement of radiated electromagnetic Disturbances (at HKPC) - 9 kHz to 1000 MHz - Measurement of LLAS radiated disturbances - 9 kHz to 30 MHz	CISPR 15: 2013 + A1: 2015 CISPR 15: 2018 EN 55015: 2013 + A1: 2015 EN IEC 55015: 2019
Multimedia equipment	- Measurement of conducted disturbance - 150 kHz to 30 MHz - Measurement of radiated disturbance (at HKPC) - 30 MHz to 6 GHz	AS/NZS CISPR 32: 2015 + A1: 2020 CISPR 32: 2015 + A1: 2019 EN 55032: 2015 + A11: 2020 + A1: 2020 ***<Excluding the following>*** for the above three standards Table A.7, A.11.2, A.11.3, A.12.2, A.12.3, A13

TÜ V Rheinland Hong Kong Limited
香港德國萊茵技術監護顧問股份有限公司
3/F & 4/F, Fou Wah Industrial Building, 10-16 Pun Shan Street, Tsuen Wan, New Territories, Hong Kong.
香港新界荃灣半山街 10 至 16 號富華工業大廈三及四樓

Electrical and Electronic Products 電氣及電子產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	EMC tests :- (cont'd) Emission tests (cont'd)	
Electrical and electronic equipment having an input current up to 16A for connecting to a 50 Hz or 60 Hz 220V, 230V or 240V single phase supply system	- Harmonic current	EN 61000-3-2: 2014 EN IEC 61000-3-2: 2019 EN IEC 61000-3-2: 2019 + A1: 2021 IEC 61000-3-2: 2014 IEC 61000-3-2: 2018 + A1: 2020
Electrical and electronic equipment having an input current up to 16A for connecting to a 50 Hz 220 V to 250 V single phase supply system	- Voltage changes, voltage fluctuations and flicker - Relative voltage change, d(t) - Short-term flicker severity, P_{st} - Long-term flicker severity, P_{lt} - Maximum steady-state voltage change, d_c - Maximum absolute voltage change, d_{max}	EN 61000-3-3: 2013 + A1: 2019 + A2: 2021 IEC 61000-3-3: 2013 + A1: 2017 + A2: 2021
Electrical and electronic apparatus intended for use in residential, commercial and light-industrial environment for which no dedicated product or product-family emission standard exists	- Measurement of conducted disturbance at mains terminals and telecommunication ports - 150 kHz to 30 MHz - Measurement of radiated disturbance (at HKPC) - 30 MHz to 6 GHz	EN 61000-6-3: 2007 + A1: 2011 EN IEC 61000-6-3: 2021 IEC 61000-6-3: 2006 + A1:2010 IEC 61000-6-3: 2020

TÜ V Rheinland Hong Kong Limited
香港德國萊茵技術監護顧問股份有限公司
3/F & 4/F, Fou Wah Industrial Building, 10-16 Pun Shan Street, Tsuen Wan, New Territories, Hong Kong.
香港新界荃灣半山街 10 至 16 號富華工業大廈三及四樓

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	EMC tests :- (cont'd)	
Household and similar electrical appliances ***<Excluding the following>*** - gas appliances	- Measurement of electromagnetic fields	EN 62233: 2008

TÜ V Rheinland Hong Kong Limited
香港德國萊茵技術監護顧問股份有限公司
3/F & 4/F, Fou Wah Industrial Building, 10-16 Pun Shan Street, Tsuen Wan, New Territories, Hong Kong.
香港新界荃灣半山街 10 至 16 號富華工業大廈三及四樓

Electrical and Electronic Products 電氣及電子產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	EMC tests :- (cont'd)	
	Immunity tests	
Electrical and electronic equipment	- Electrostatic discharge - 8 kV air discharge - 4 kV contact discharge	IEC 61000-4-2: 1995 + A1: 1998 + A2: 2001 IEC 61000-4-2: 2008
	- Radiated, radio frequency, electromagnetic field (at HKPC) - 80 MHz to 1GHz, up to 10V/m - 1 GHz to 6 GHz, up to 3V/m	EN 61000-4-3: 2006 + A1: 2008 + A2: 2010 IEC 61000-4-3: 2006 + A1: 2007 + A2: 2010
	- Electrical fast transient/burst - 4 kV 5/50ns, 5kHz	IEC 61000-4-4: 2004 IEC 61000-4-4: 2012
	- Surge - 4 kV 1.2/50 μs	EN 61000-4-5: 2014 + A1: 2017 ***<Excluding the following>*** Equipment with current rating > 16A IEC 61000-4-5: 2005 IEC 61000-4-5: 2014 + A1: 2017 ***<Excluding the following>*** Equipment with current rating > 16A
	- Conducted disturbances induced by radio frequency fields - 150 kHz to 230 MHz, 10V	IEC 61000-4-6: 2008 ***<Excluding the following>*** Cl. 6.2.1.2 and 6.2.1.3 EN 61000-4-6: 2014 IEC 61000-4-6: 2013 ***<Excluding the following>*** for the above two standards Cl. 6.2.2.3, 6.2.2.4 and 6.2.2.5
	- Voltage dips, short interruptions and voltage variations	EN 61000-4-11: 2004 +A1: 2017 EN IEC 61000-4-11: 2020 IEC 61000-4-11: 2004 +A1: 2017 IEC 61000-4-11: 2020
Household appliances, electric tools and similar apparatus < ***Excluding the following*** > - three phase equipment	- Electrostatic discharge - Fast transients - Injected currents - Radio-frequency electromagnetic fields (at HKPC) - Surges - Voltage dips and interruptions	CISPR 14-2: 2015 CISPR 14-2: 2020 EN 55014-2: 2015 EN IEC 55014-2: 2021

TÜ V Rheinland Hong Kong Limited
香港德國萊茵技術監護顧問股份有限公司
3/F & 4/F, Fou Wah Industrial Building, 10-16 Pun Shan Street, Tsuen Wan, New Territories, Hong Kong.
香港新界荃灣半山街 10 至 16 號富華工業大廈三及四樓

Electrical and Electronic Products 電氣及電子產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	EMC tests :- (cont'd) Immunity tests	
Electric and electronic toys	- Electrostatic discharge - Fast transients - Injected currents - Radio-frequency electromagnetic fields (at HKPC) - Surges - Voltage dips and interruptions	CISPR 14-2: 2015 CISPR 14-2: 2020 EN 55014-2: 2015 EN IEC 55014-2: 2021
Lighting equipment and luminaires	- Electrostatic discharge - Fast transients - Injected currents - Radio-frequency electromagnetic fields (at HKPC) - Surges - Voltage dips and interruptions	EN 61547: 2009 IEC 61547: 2009 ***<Excluding the following>*** for the above two standards Cl. 5.4
Electrical and electronic apparatus intended for use in residential and light-industrial environment for which no dedicated product or product-family immunity standard exists	- Radio-frequency electromagnetic field (at HKPC) - Electrostatic discharge - Fast transients - Radio frequency common mode - Surges - Voltage dips - Voltage interruptions	EN 61000-6-1: 2007 IEC 61000-6-1: 2005 IEC 61000-6-1: 2016 EN IEC 61000-6-1: 2019 ***<Excluding the following>*** for the above four standards Item 1.1 on Table 1
Multimedia equipment	- Radio-frequency electromagnetic field (at HKPC) - Electrostatic discharge - Fast transients - Radio frequency common mode - Surges - Voltage dips - Voltage interruptions	CISPR 35: 2016 EN 55035: 2017 ***<Excluding the following>*** Cl. 4.2.7, Table 2.2, Table 2.3 Annexes A, E, F, G, H

TÜ V Rheinland Hong Kong Limited
香港德國萊茵技術監護顧問股份有限公司
3/F & 4/F, Fou Wah Industrial Building, 10-16 Pun Shan Street, Tsuen Wan, New Territories, Hong Kong.
香港新界荃灣半山街 10 至 16 號富華工業大廈三及四樓

Electrical and Electronic Products 電氣及電子產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Safety tests :-	
Audio, video and similar electronic apparatus	- Compliance inspection and safety tests	EN 60065: 2014 + A11: 2017 < ***Excluding the following*** > Cl. 6, 9.1.1.2c & d, 10.4 (dielectric strength test voltage higher than 5 kV peak), 12.3, 18, 19.7, Z1; Annex H IEC 60065: 2014 < ***Excluding the following*** > Cl. 6, 9.1.1.2c & d 10.4 (dielectric strength test voltage higher than 5 kV peak), 12.3, 18, 19.7; Annex H
Audio, video and information communication technology equipment	- Compliance inspection and safety tests	AS/NZS 62368.1: 2018 EN 62368-1: 2014 + A11: 2017 IEC 62368-1: 2014 < ***Excluding the following*** > for the above three standards Cl. 4.4.4.6 (test to Annex U), 5.4.2.3.2.4, 5.4.5, 5.5.6 5.5.8, 5.6.4.1 (test to Annex R), 6.4.8.2.2 (test to Annex S.5), 10; Annexes G.6.1 c), G.9, G.10, G13.3, G13.5, G.13.6, G.14, J, P.5, R, S.5 and U EN IEC 62368-1: 2020 + A11: 2020 IEC 62368-1: 2018 < ***Excluding the following*** > for the above two standards Cl. 4.4.3.6 (test to Annex U), 5.4.2.3.2.4, 5.4.5, 5.5.6 5.5.8, 5.6.4.1 (test to Annex R), 6.4.8.2.2 (test to Annex S.5), 10; Annexes G.6.1 c), G.9, G.10, G13.3, G13.5, G.13.6, G.14, J, P.4, R, S.5, U and Y IEC 62368-1: 2023 < ***Excluding the following*** > Cl. 4.4.3.6 (test to Annex U), 5.4.2.3.2.4, 5.4.5, 5.5.6, 5.5.8, 5.6.4.1 (test to Annex R), 6.4.8.2.2 (test to Annex S.5), 10; Annexes G.6.1 c), G.9, G.10, G13.3, G13.5, G.13.6, G.14, J, P.4, R, S.5, U and Y.2 (test to Annex C) Y.3, Y.4, Y.5.3 to Y.5.5

TÜ V Rheinland Hong Kong Limited
香港德國萊茵技術監護顧問股份有限公司
3/F & 4/F, Fou Wah Industrial Building, 10-16 Pun Shan Street, Tsuen Wan, New Territories, Hong Kong.
香港新界荃灣半山街 10 至 16 號富華工業大廈三及四樓

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Safety tests :- (cont'd)	
Electrical accessory - Integrated or detachable plug portion of equipment for insertion into socket outlets	- Compliance inspection and safety tests	AS/NZS 3112: 2017 + Amd 1: 2021 Appendix J

TÜ V Rheinland Hong Kong Limited
香港德國萊茵技術監護顧問股份有限公司
3/F & 4/F, Fou Wah Industrial Building, 10-16 Pun Shan Street, Tsuen Wan, New Territories, Hong Kong.
香港新界荃灣半山街 10 至 16 號富華工業大廈三及四樓

Electrical and Electronic Products 電氣及電子產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Safety tests :- (cont'd)	
Household and similar electrical appliance		
- General requirements for electrical appliance	- Compliance inspection and safety tests	EN 60335-1: 2012 + A11: 2014 + A13: 2017 + A1: 2019 + A14: 2019 + A2: 2019 + A15: 2021 < ***Excluding the following*** > Cl. 15.1.1 (tests for IP5X, IP6X, IPX5, IPX6 and IPX8 to IEC 60529), 22.32 (oxygen bomb test), (Note: The above Part 1 standard should be used in conjunction with specific product standard as detailed in the relevant Part 2 of EN 60335) IEC 60335-1: 2001 + A1: 2004 + A2: 2006 < ***Excluding the following*** > Cl. 15.1.1 (tests for IP5X, IP6X, IPX5, IPX6 and IPX8 to IEC 60529), 22.32 (oxygen bomb test), 22.46 IEC 60335-1: 2010 + A1: 2013 + A2: 2016 < ***Excluding the following*** > Cl. 15.1.1 (tests for IP5X, IP6X, IPX5, IPX6 and IPX8 to IEC 60529), 22.32 (oxygen bomb test), 22.46, 22.57 IEC 60335-1: 2020 < ***Excluding the following*** > Cl. 12, 15.1.1 (tests for IP5X, IP6X, IPX5, IPX6 and IPX8 to IEC 60529), 19.17, 22.32 (oxygen bomb test), 22.46, 22.57, 22.62, 32.2, Annex B.20 (Note: The above Part 1 standards should be used in conjunction with specific product standard as detailed in the relevant Part 2 of IEC 60335)

TÜ V Rheinland Hong Kong Limited
香港德國萊茵技術監護顧問股份有限公司
3/F & 4/F, Fou Wah Industrial Building, 10-16 Pun Shan Street, Tsuen Wan, New Territories, Hong Kong.
香港新界荃灣半山街 10 至 16 號富華工業大廈三及四樓

Electrical and Electronic Products 電氣及電子產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Household and similar electrical appliance (cont'd)	Safety tests :- (cont'd)	
- Appliance for heating liquids	- Compliance inspection and safety tests	EN 60335-2-15: 2016 + A11: 2018 + A1: 2021 + A2: 2021 + A12: 2021 IEC 60335-2-15: 2012 + A1: 2016 + A2: 2018 < ***Excluding the following*** > for the above two standards Cl. 15.1.1 (tests for IP5X, IP6X, IPX5, IPX6 and IPX8 to IEC 60529), 22.32 (oxygen bomb test), 22.46, 22.57
- Appliance for skin or hair care	- Compliance inspection and safety tests	EN 60335-2-23: 2003 + A1: 2008 + A11: 2010 + A2: 2015 IEC 60335-2-23: 2003 + A1: 2008 + A2: 2012 < ***Excluding the following*** > for the above two standards Cl. 15.1.1 (tests for IP5X, IP6X, IPX5, IPX6 and IPX8 to IEC 60529), 22.32 (oxygen bomb test), 22.46 IEC 60335-2-23: 2016 + A1: 2019 < ***Excluding the following*** > Cl. 15.1.1 (tests for IP5X, IP6X, IPX5, IPX6 and IPX8 to IEC 60529), 22.32 (oxygen bomb test), 22.46, 22.57

TÜ V Rheinland Hong Kong Limited
香港德國萊茵技術監護顧問股份有限公司
3/F & 4/F, Fou Wah Industrial Building, 10-16 Pun Shan Street, Tsuen Wan, New Territories, Hong Kong.
香港新界荃灣半山街 10 至 16 號富華工業大廈三及四樓

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Household and similar electrical appliance (cont'd)	Safety tests :- (cont'd)	
- Battery charger	- Compliance inspection and safety tests	EN 60335-2-29: 2004 + A2: 2010 + A11: 2018 IEC 60335-2-29: 2002 + A1: 2004 + A2: 2009 **< *Excluding the following* >** for the above two standards Cl. 15.1.1 (tests for IP5X, IP6X, IPX5, IPX6 and IPX8 to IEC 60529), 22.32 (oxygen bomb test), 22.46 IEC 60335-2-29: 2016 + A1: 2019 **< *Excluding the following* >** Cl. 15.1.1 (tests for IP5X, IP6X, IPX5, IPX6 and IPX8 to IEC 60529), 22.32 (oxygen bomb test), 22.46, 22.57 EN 60335-2-29: 2021 + A1: 2021 **< *Excluding the following* >** Cl. 15.1.1 (tests for IP5X, IP6X, IPX5, IPX6 and IPX8 to IEC 60529), 22.32 (oxygen bomb test), 22.46, 22.57
- Cooking range	- Compliance inspection and safety tests	EN 60335-2-6: 2015 + A1: 2020 + A11: 2020 IEC 60335-2-6: 2014 + A1: 2018 **< *Excluding the following* >** for the above two standards Cl. 15.1.1 (tests for IP5X, IP6X, IPX5, IPX6 and IPX8 to IEC 60529), 22.32 (oxygen bomb test), 22.46, 22.57, 22.110, 22.111, 32.101

TÜ V Rheinland Hong Kong Limited
香港德國萊茵技術監護顧問股份有限公司
3/F & 4/F, Fou Wah Industrial Building, 10-16 Pun Shan Street, Tsuen Wan, New Territories, Hong Kong.
香港新界荃灣半山街 10 至 16 號富華工業大廈三及四樓

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Household and similar electrical appliance (cont'd)	Safety tests :- (cont'd)	
- Deep fat fryer and frying pan	- Compliance inspection and safety tests	EN 60335-2-13: 2010 + A11: 2012 + A1: 2019 IEC 60335-2-13: 2009 + A1: 2016 **< *Excluding the following* >** for the above two standards Cl. 15.1.1 (tests for IP5X, IP6X, IPX5, IPX6 and IPX8 to IEC 60529), 22.32 (oxygen bomb test), 22.46, 22.57 IEC 60335-2-13: 2021 **< *Excluding the following* >** Cl. 12, 15.1.1 (tests for IP5X, IP6X, IPX5, IPX6 and IPX8 to IEC 60529), 19.17, 22.32 (oxygen bomb test), 22.46, 22.57, 22.62, 32.2, Annex B.20
- Fan **< *Excluding the following* >** - fan intended to be used in tropical climates	- Compliance inspection and safety tests	EN 60335-2-80: 2003 + A1: 2004 + A2: 2009 IEC 60335-2-80: 2002 + A1: 2004 + A2: 2008 **< *Excluding the following* >** for the above two standards Cl. 15.1.1 (tests for IP5X, IP6X, IPX5, IPX6 and IPX8 to IEC 60529), 20.101, 22.32 (oxygen bomb test), 22.46, IEC 60335-2-80: 2015 **< *Excluding the following* >** Cl. 15.1.1 (tests for IP5X, IP6X, IPX5, IPX6 and IPX8 to IEC 60529), 20.101, 22.32 (oxygen bomb test), 22.46, 22.57,

TÜ V Rheinland Hong Kong Limited
香港德國萊茵技術監護顧問股份有限公司
3/F & 4/F, Fou Wah Industrial Building, 10-16 Pun Shan Street, Tsuen Wan, New Territories, Hong Kong.
香港新界荃灣半山街 10 至 16 號富華工業大廈三及四樓

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Household and similar electrical appliance (cont'd)	Safety tests :- (cont'd)	
- Iron	- Compliance inspection and safety tests	IEC 60335-2-3: 2012 + A1: 2015 EN 60335-2-3: 2016 + A1: 2020 < ***Excluding the following*** > for the above two standards Cl. 15.1.1 (tests for IP5X, IP6X, IPX5, IPX6 and IPX8 to IEC 60529), 22.32 (oxygen bomb test), 22.46, 22.57 IEC 60335-2-3: 2022 < ***Excluding the following*** > Cl. 12, 15.1.1 (tests for IP5X, IP6X, IPX5, IPX6 and IPX8 to IEC 60529), 19.17, 22.32 (oxygen bomb test), 22.46, 22.57, 22.62, 32.2, Annex B.20
- Kitchen machine	- Compliance inspection and safety tests	EN 60335-2-14: 2006 + A1: 2008 + A11: 2012 + A12: 2016 IEC 60335-2-14: 2006 + A1: 2008 + A2: 2012 < ***Excluding the following*** > for the above two standards Cl. 15.1.1 (tests for IP5X, IP6X, IPX5, IPX6 and IPX8 to IEC 60529), 22.32 (oxygen bomb test), 22.46, 22.57 IEC 60335-2-14: 2016 + A1: 2019 < ***Excluding the following*** > Cl. 15.1.1 (tests for IP5X, IP6X, IPX5, IPX6 and IPX8 to IEC 60529), 22.32 (oxygen bomb test), 22.46, 22.57
- Massage appliance	- Compliance inspection and safety tests	EN 60335-2-32: 2003 + A1: 2008 + A2: 2015 IEC 60335-2-32: 2002 + A1: 2008 + A2: 2013 IEC 60335-2-32: 2019 < ***Excluding the following*** > for the above three standards Cl. 15.1.1 (tests for IP5X, IP6X, IPX5, IPX6 and IPX8 to IEC 60529), 22.32 (oxygen bomb test), 22.46, 22.57

TÜ V Rheinland Hong Kong Limited
香港德國萊茵技術監護顧問股份有限公司
3/F & 4/F, Fou Wah Industrial Building, 10-16 Pun Shan Street, Tsuen Wan, New Territories, Hong Kong.
香港新界荃灣半山街 10 至 16 號富華工業大廈三及四樓

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Household and similar electrical appliance (cont'd)	Safety tests :- (cont'd)	
- Microwave oven with rated voltage up to 250V	- Compliance inspection and safety tests	EN 60335-2-25: 2012 + A1: 2015 + A2: 2016 IEC 60335-2-25: 2010 + A1: 2014 < ***Excluding the following*** > for the above two standards Cl. 15.1.1 (tests for IP5X, IP6X, IPX5, IPX6 and IPX8 to IEC 60529), 22.32 (oxygen bomb test), 22.46, 22.57 EN IEC 60335-2-25: 2021 + A11: 2021 IEC 60335-2-25: 2020 < ***Excluding the following*** > for the above two standards Cl. 15.1.1 (tests for IP5X, IP6X, IPX5, IPX6 and IPX8 to IEC 60529), 22.32 (oxygen bomb test), 22.46, 22.57
- Oral hygiene appliance	- Compliance inspection and safety tests	EN 60335-2-52: 2003 + A1: 2008 + A11: 2010 IEC 60335-2-52: 2002 + A1: 2008 + A2: 2017 < ***Excluding the following*** > for the above two standards Cl. 15.1.1 (tests for IP5X, IP6X, IPX5, IPX6 and IPX8 to IEC 60529), 19.101, 22.32 (oxygen bomb test), 22.46, 22.57 IEC 60335-2-52: 2021 < ***Excluding the following*** > Cl. 12, 15.1.1 (tests for IP5X, IP6X, IPX5, IPX6 and IPX8 to IEC 60529), 19.17, 22.32 (oxygen bomb test), 22.46, 22.57, 22.62, 32.2, Annex B.20
- Portable heating tool	- Compliance inspection and safety tests	EN 60335-2-45: 2002 + A1: 2008 + A2: 2012 IEC 60335-2-45: 2002 + A1: 2008 + A2: 2011 < ***Excluding the following*** > for the above two standards Cl. 15.1.1 (tests for IP5X, IP6X, IPX5, IPX6 and IPX8 to IEC 60529), 22.32 (oxygen bomb test), 22.46, 22.57

TÜ V Rheinland Hong Kong Limited
香港德國萊茵技術監護顧問股份有限公司
3/F & 4/F, Fou Wah Industrial Building, 10-16 Pun Shan Street, Tsuen Wan, New Territories, Hong Kong.
香港新界荃灣半山街 10 至 16 號富華工業大廈三及四樓

Electrical and Electronic Products 電氣及電子產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Household and similar electrical appliance (cont'd)	Safety tests :- (cont'd)	
- Room heater with rated voltage up to 250V	- Compliance inspection and safety tests	EN 60335-2-30: 2009 + A11: 2012 + A1: 2020 + A12: 2020 + A2: 2022 + A13:2022 IEC 60335-2-30: 2009 + A1: 2016 + A2: 2021 **< *Excluding the following* >** for the above two standards Cl. 15.1.1 (tests for IP5X, IP6X, IPX5, IPX6 and IPX8 to IEC 60529), 19.108, 21 (impact test at 2.0 J), 21.2, 22.32 (oxygen bomb test), 22.46, 22.57
- Toaster, grill and roaster	- Compliance inspection and safety tests	IEC 60335-2-9:2008 + A1: 2012 + A2: 2016 **< *Excluding the following* >** Cl. 15.1.1 (tests for IP5X, IP6X, IPX5, IPX6 and IPX8 to IEC 60529), 22.32 (oxygen bomb test), 22.46, 22.57 IEC 60335-2-9: 2019 **< *Excluding the following* >** Cl. 15.1.1 (tests for IP5X, IP6X, IPX5, IPX6 and IPX8 to IEC 60529), 22.32 (oxygen bomb test), 22.46, 22.57

TÜ V Rheinland Hong Kong Limited
香港德國萊茵技術監護顧問股份有限公司
3/F & 4/F, Fou Wah Industrial Building, 10-16 Pun Shan Street, Tsuen Wan, New Territories, Hong Kong.
香港新界荃灣半山街 10 至 16 號富華工業大廈三及四樓

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Household and similar electrical appliances (cont'd)	Safety tests :- (cont'd)	
- Vacuum cleaner and water suction cleaning appliance	- Compliance inspection and safety tests	EN 60335-2-2: 2010 + A11: 2012 + A1: 2013 IEC 60335-2-2: 2009 + A1: 2012 +A2: 2016 **< *Excluding the following* >** for the above two standards Cl. 15.1.1 (tests for IP5X, IP6X, IPX5, IPX6 and IPX8 to IEC 60529), 15.2 (spillage test with detergent solution), 21.101, 21.102, 21.103, 21.104, 21.105, 22.32 (oxygen bomb test), 22.46, 22.57 IEC 60335-2-2: 2019 **< *Excluding the following* >** Cl. 15.1.1 (tests for IP5X, IP6X, IPX5, IPX6 and IPX8 to IEC 60529), 15.2 (spillage test with detergent solution), 21.101, 21.102, 21.103, 21.104, 21.105, 22.32 (oxygen bomb test), 22.46, 22.57

TÜ V Rheinland Hong Kong Limited
香港德國萊茵技術監護顧問股份有限公司
3/F & 4/F, Fou Wah Industrial Building, 10-16 Pun Shan Street, Tsuen Wan, New Territories, Hong Kong.
香港新界荃灣半山街 10 至 16 號富華工業大廈三及四樓

Electrical and Electronic Products 電氣及電子產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Safety tests :- (cont'd)	
Information technology equipment **< *Excluding the following* >** - Three-phase equipment - Floor-standing equipment	- Compliance inspection and safety tests	EN 60950-1: 2006 + A1: 2010 + A11: 2009 + A12: 2011 + A2: 2013 IEC 60950-1: 2005 + A1: 2009 + A2: 2013 **< *Excluding the following* >** for the above two standards Cl. 2.3.5, 2.10.3.9, 2.10.7, 2.10.8, 4.2.8, 4.3.12, 4.3.13; Annexes A, M, U, CC

TÜ V Rheinland Hong Kong Limited
香港德國萊茵技術監護顧問股份有限公司
3/F & 4/F, Fou Wah Industrial Building, 10-16 Pun Shan Street, Tsuen Wan, New Territories, Hong Kong.
香港新界荃灣半山街 10 至 16 號富華工業大廈三及四樓

Electrical and Electronic Products 電氣及電子產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Luminaires	Safety tests :- (cont'd)	
- General requirements for luminaires up to 500 W	- Compliance inspection and safety tests	IEC 60598-1: 2008 < ***Excluding the following*** > Cl. 4.18.2, 4.20, 4.24, 9.2 (tests for IP5X, IP6X, IPX5, IPX6 and IPX8), (Note: The above Part 1 standard should be used in conjunction with specific product standard as detailed in the relevant Part 2 of IEC 60598) EN 60598-1: 2015 + A1: 2018 IEC 60598-1: 2014 + A1: 2017 < ***Excluding the following*** > for the above two standards Cl. 4.18.2, 4.20, 4.24, 9.2 (tests for IP5X, IP6X, IPX5, IPX6 and IPX8), (Note: The above Part 1 standard should be used in conjunction with specific product standard as detailed in the relevant Part 2 of EN 60598 or IEC 60598) EN IEC 60598-1: 2021 + A11: 2022 IEC 60598-1: 2020 < ***Excluding the following*** > for the above two standards Cl. 4.18.2, 4.24, 4.36, 9.2 (tests for IP5X, IP6X, IPX5, IPX6 and IPX8),
- Extra low-voltage lighting systems for filament lamps up to 500 W	- Compliance inspection and safety tests	EN 60598-2-23: 1996 + A1: 2000 IEC 60598-2-23: 1996 + A1: 2000 < ***Excluding the following***> for the above two standards Cl. 23.7 (tests to 4.18.2, 4.20 and 4.24 of Part 1) and 23.14 (tests for IP5X, IP6X, IPX5, IPX6 and IPX8)

TÜ V Rheinland Hong Kong Limited
香港德國萊茵技術監護顧問股份有限公司
3/F & 4/F, Fou Wah Industrial Building, 10-16 Pun Shan Street, Tsuen Wan, New Territories, Hong Kong.
香港新界荃灣半山街 10 至 16 號富華工業大廈三及四樓

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Luminaires	Safety tests :- (cont'd)	
- Fixed general purpose luminaires up to 500 W	- Compliance inspection and safety tests	EN 60598-2-1: 1989 IEC 60598-2-1: 1979 + A1: 1987 < ***Excluding the following*** > for the above two standards Cl. 1.6 (tests to 4.18.2, 4.20 and 4.24 of Part 1) and 1.13 (tests for IP5X, IP6X, IPX5, IPX6 and IPX8) EN IEC 60598-2-1: 2021 IEC 60598-2-1: 2020 < ***Excluding the following*** > for the above two standards Cl. 1.7 (tests to 4.18.2, 4.24 and 4.36 of Part 1) and 1.13 (tests for IP5X, IP6X, IPX5, IPX6 and IPX8)
- Lighting chains up to 500 W	- Compliance inspection and safety tests	IEC 60598-2-20: 2010 < ***Excluding the following*** > Cl. 20.7 (tests to 4.18.2, 4.20 and 4.24 of Part 1), 20.7.14, 20.13 (tests for IP5X, IP6X, IPX5, IPX6 and IPX8) and 20.15 (resistance to heat) EN 60598-2-20: 2015 IEC 60598-2-20: 2014 < ***Excluding the following*** > for the above two standards Cl. 20.7 (tests to 4.18.2, 4.20 and 4.24 of Part 1), 20.14 (tests for IP5X, IP6X, IPX5, IPX6 and IPX8) and 20.16 (resistance to heat) IEC 60598-2-20: 2022 < ***Excluding the following*** > Cl. 20.7 (tests to 4.18.2, 4.20 and 4.24 of Part 1), 20.14 (tests for IP5X, IP6X, IPX5, IPX6 and IPX8) and 20.16 (resistance to heat)
- Luminaires with built-in transformers for filament lamps up to 500 W	- Compliance inspection and safety tests	EN 60598-2-6: 1994 + A1: 1997 IEC 60598-2-6: 1994 + A1: 1996 < ***Excluding the following*** > for the above two standards Cl. 6.6 (tests to 4.18.2, 4.20 and 4.24 of Part 1), 6.13 (tests for IP5X, IP6X, IPX5, IPX6 and IPX8)

TÜ V Rheinland Hong Kong Limited
香港德國萊茵技術監護顧問股份有限公司
3/F & 4/F, Fou Wah Industrial Building, 10-16 Pun Shan Street, Tsuen Wan, New Territories, Hong Kong.
香港新界荃灣半山街 10 至 16 號富華工業大廈三及四樓

Electrical and Electronic Products 電氣及電子產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Luminaires (cont'd)	Safety tests :- (cont'd)	
- Portable luminaires for children up to 500 W	- Compliance inspection and safety tests	IEC 60598-2-10: 2003 < ***Excluding the following*** > Cl. 10.6 (tests to 4.18.2, 4.20 and 4.24 of Part 1), 10.13 (tests for IP5X, IP6X, IPX5, IPX6 and IPX8) and 10.15.2
- Portable general purpose luminaires up to 500 W	- Compliance inspection and safety tests	EN 60598-2-4: 2018 IEC 60598-2-4: 2017 < ***Excluding the following*** > for the above two standards Cl. 4.7 (tests to 4.18.2, 4.20 and 4.24 of Part 1), 4.14 (tests for IP5X, IP6X, IPX5, IPX6 and IPX8)
- Portable luminaires for garden use up to 500 W	- Compliance inspection and safety tests	EN 60598-2-7: 1989 + A2: 1996 + A11: 1994 + A12: 1995 + A13: 1997 IEC 60598-2-7 : 1982 + A1: 1987 + A2: 1994 < ***Excluding the following*** > for the above two standards Cl. 7.6 (tests to 4.18.2, 4.20 and 4.24 of Part 1), 7.13 (tests for IP5X, IP6X, IPX5, IPX6 and IPX8)
- Recessed luminaires up to 500 W	- Compliance inspection and safety tests	EN 60598-2-2: 2012 IEC 60598-2-2: 2011 < ***Excluding the following*** > for the above two standards Cl. 2.7 (tests to 4.18.2, 4.20 and 4.24 of Part 1), 2.14 (tests for IP5X, IP6X, IPX5, IPX6 and IPX8) IEC 60598-2-2: 2023 < ***Excluding the following*** > Cl. 2.7 (tests to 4.18.2, 4.20 and 4.24 of Part 1), 2.14 (tests for IP5X, IP6X, IPX5, IPX6 and IPX8)

TÜ V Rheinland Hong Kong Limited
香港德國萊茵技術監護顧問股份有限公司
3/F & 4/F, Fou Wah Industrial Building, 10-16 Pun Shan Street, Tsuen Wan, New Territories, Hong Kong.
香港新界荃灣半山街 10 至 16 號富華工業大廈三及四樓

Electrical and Electronic Products 電氣及電子產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Transformers	Safety tests :- (cont'd)	
- Power transformer, power supply unit	- Compliance inspection and safety tests	EN 61558-1: 2005 + A1: 2009 IEC 61558-1: 2005 + A1: 2009 **< *Excluding the following* >** for the above two standards Cl. 9.1.1.2 , 13, 14.3.2, 17.1.1 (tests for IP5X, IP6X, IPX1, IPX2, IPX5 and IPX6 to IEC 60529), 19.9 (oxygen bomb test), 19.10; Annex K (Note: The above Part 1 standard should be used in conjunction with specific product standard as detailed in the relevant Part 2 of EN 61558 or IEC 61558) EN IEC 61558-1: 2019 IEC 61558-1: 2017 **< *Excluding the following* >** for the above two standards Cl. 9.2.1.3.1 , 9.2.1.3.2, 13, 14.3.3, 16.5.1, 16.5.2, 17.1.2 (tests for IP5X, IP6X, IPX5 and IPX6 to IEC 60529), 19.9 (oxygen bomb test), 19.10; Annex K (Note: The above Part 1 standard should be used in conjunction with specific product standard as detailed in the relevant Part 2 of EN 61558 or IEC 61558)
- Isolating transformer for general use	- Compliance inspection and safety tests	EN 61558-2-4: 2009 IEC 61558-2-4: 2009 **< *Excluding the following* >** for the above two standards Cl. 9.1.1.2, 13, 14.3.2, 17.1.1 (tests for IP5X, IP6X, IPX1, IPX2, IPX5 and IPX6 to IEC 60529), 19.9 (oxygen bomb test), 19.10; Annex K

TÜ V Rheinland Hong Kong Limited
香港德國萊茵技術監護顧問股份有限公司
3/F & 4/F, Fou Wah Industrial Building, 10-16 Pun Shan Street, Tsuen Wan, New Territories, Hong Kong.
香港新界荃灣半山街 10 至 16 號富華工業大廈三及四樓

Electrical and Electronic Products 電氣及電子產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Transformers (cont'd)	Safety tests :- (cont'd)	
- Transformer for toys	- Compliance inspection and safety tests	EN 61558-2-7: 2007 IEC 61558-2-7: 2007 < ***Excluding the following*** > for the above two standards Cl. 9.1.1.2, 13, 14.3.2, 17.1.1 (tests for IP5X, IP6X, IPX1, IPX2, IPX5 and IPX6 to IEC 60529), 19.9 (oxygen bomb test), 19.10; Annex K
- Safety isolating transformer and power supply units incorporating safety isolating transformer for general applications	- Compliance inspection and safety tests	EN 61558-2-6: 2009 IEC 61558-2-6: 2009 < ***Excluding the following*** > for the above two standards Cl. 9.1.1.2, 13, 14.3.2, 17.1.1 (tests for IP5X, IP6X, IPX1, IPX2, IPX5 and IPX6 to IEC 60529), 19.9 (oxygen bomb test), 19.10; Annex K IEC 61558-2-6: 2021 < ***Excluding the following*** > Cl. 9.2.1.3.1, 9.2.1.3.2, 13, 14.3.2, 17.1.1 (tests for IP5X, IP6X, IPX1, IPX2, IPX5 and IPX6 to IEC 60529), 18.101, 19.9 (oxygen bomb test), 19.10
- Switch mode power supply unit and transformer for switch mode power supply units for general applications	- Compliance inspection and safety tests	EN 61558-2-16: 2009 + A1: 2013 IEC 61558-2-16: 2009 + A1: 2013 < ***Excluding the following*** > for the above two standards Cl. 9.1.1.2, 13, 14.3.2, 17.1.1 (tests for IP5X, IP6X, IPX1, IPX2, IPX5 and IPX6 to IEC 60529), 18.102 19.9 (oxygen bomb test), 19.10, 26.107; Annex K IEC 61558-2-16: 2021 < ***Excluding the following*** > Cl. 9.2.1.3.1, 9.2.1.3.2, 13, 14.3.2, 17.1.1 (tests for IP5X, IP6X, IPX1, IPX2, IPX5 and IPX6 to IEC 60529), 18.101, 19.9 (oxygen bomb test), 19.10

TÜ V Rheinland Hong Kong Limited
香港德國萊茵技術監護顧問股份有限公司
3/F & 4/F, Fou Wah Industrial Building, 10-16 Pun Shan Street, Tsuen Wan, New Territories, Hong Kong.
香港新界荃灣半山街 10 至 16 號富華工業大廈三及四樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術	
	Chemical tests :-		
Toys – paint and similar surface-coating materials	- Total lead content	ASTM F963-17 Cl. 4.3.5.1 (1)	.vs.
		ASTM F963-23 Cl. 4.3.5.1 (1)	.vs.
		Test procedures for compliance testing:-	
		CPSC Test method: CPSC-CH-E1003-09.1 Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings, February 25, 2011	.vs.
	- Migration of the elements Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	ASTM F963-17 Cl. 4.3.5.1 (2)	.vs.
		ASTM F963-23 Cl. 4.3.5.1 (2)	.vs.
		Test procedures for compliance testing:-	
		Cl. 8.3.2 – 8.3.4	.vs.
Toys – substrate materials	- Total lead content	ASTM F963-17 cl. 4.3.5.2 (2)(a)	.vs.
		ASTM F963-23 cl. 4.3.5.2 (2)(a)	.vs.
		Test Procedures for Compliance testing:	
		CPSC Test Method: CPSC-CH-E1001-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Children's Metal Products (Including Children's Metal Jewelry), Revision November 15, 2012 <***Excluding the following***> XRF spectrometry	.vs.
		Test Procedures for Compliance testing:	
		CPSC Test Method: CPSC-CH-E1002-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Non-Metal Children's Products, Revision November 15, 2012 <***Excluding the following***> XRF spectrometry	.vs.
	- Migration of the elements Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	ASTM F963-17 cl. 4.3.5.2 (2)(b)	.vs.
		Test procedures for compliance testing:-	
		Cl. 8.3.5	.vs.
		ASTM F963-23 cl. 4.3.5.2 (2)(b) and (c)	.vs.
		Test procedures for compliance testing:-	
		Cl. 8.3.5	.vs.

TÜ V Rheinland Hong Kong Limited
香港德國萊茵技術監護顧問股份有限公司
3/F & 4/F, Fou Wah Industrial Building, 10-16 Pun Shan Street, Tsuen Wan, New Territories, Hong Kong.
香港新界荃灣半山街 10 至 16 號富華工業大廈三及四樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術	
	Chemical tests :- (cont'd)		
Metallic toys or metallic toy components	Extractable Cadmium	ASTM F963-17 Cl. 4.3.5.2 (2)(c)	.vs.
		ASTM F963-23 Cl. 4.3.5.2 (2)(d)	.vs.
		Test Procedures for Compliance testing:	
		Cl. 8.3.5.5(3) and	.vs.
		CPSC Test Method: CPSC-CH-E1004-11 Standard Operating Procedure for Determining Cadmium (Cd) Extractability from Children's Metal Jewelry, February 03, 2011	
Toys and other articles intended for use by children – paint and other similar surface-coating materials	Total lead content	US Public Law 110 -314 Consumer Product Safety Improvement Act 2008 US 16 CFR Part 1303	.vs.
		Test procedures for compliance testing:-	
		CPSC Test Method: CPSC-CH-E1003-09.1 Standard Operating Procedure for Determining Lead (Pb) in Paint & other similar Surface Coatings, February 25, 2011	.vs.
Children's metal products	Total lead content	US Public Law 110 -314 Consumer Product Safety Improvement Act 2008	.vs.
		Test procedures for compliance testing:-	
		CPSC Test Method: CPSC-CH-E1001-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Children's Metal Products (Including Children's Metal Jewelry), Revision November 15, 2012	.vs.
		<***Excluding the following***> XRF spectrometry	
Children's non-metal products	- Total lead content	*Test procedures for compliance testing:-*	
		CPSC Test Method: CPSC-CH-E1002-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Non-Metal Children's Products, Revision November 15, 2012	.vs.
		<***Excluding the following***> XRF spectrometry	

TÜ V Rheinland Hong Kong Limited
香港德國萊茵技術監護顧問股份有限公司
3/F & 4/F, Fou Wah Industrial Building, 10-16 Pun Shan Street, Tsuen Wan, New Territories, Hong Kong.
香港新界荃灣半山街 10 至 16 號富華工業大廈三及四樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術	
	Chemical tests :- (cont'd)		
Toys	- Migration of the elements antimony, chromium, selenium, arsenic, cadmium, mercury, barium, lead	ISO 8124-3: 2020 (for dewaxing: Method A) AS/NZS 8124-3: 2021 (for dewaxing: Method A) GB 6675.4: 2014	.vs. .vs. .vs.
	- Migration of the elements antimony, chromium, selenium, arsenic, cadmium, mercury, barium, lead, boron	ISO 8124-3: 2020 + A1: 2023 (for dewaxing: Method A)	.vs.
Toys	- Migration of certain elements:	EN71-3: 2019 EN71-3: 2019 + A1: 2021	.vs. .vs.
Category I toy materials: Dry, brittle, powder like or pliable materials	Aluminum, Antimony, Arsenic, Barium, Boron, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Mercury, Nickel, Selenium, Strontium, Tin and Zinc	Annex E (ICP-MS)	.vs.
	Tin (for screening for total organic tin)	Alternative method as documented in MS-0040970 (ICP-MS)	.vs.
	Chromium (VI) and Chromium (III) (by calculation)	Annex F (IC-ICP-MS/MS)	.vs.
	Organic Tin: Methyl tin, Butyltin, Dibutyl tin, Tributyl tin, Tetrabutyl tin, n-Octy tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin, Triphenyl tin, Dimethyltin	Annex G (GC-MS)	

TÜ V Rheinland Hong Kong Limited
香港德國萊茵技術監護顧問股份有限公司
3/F & 4/F, Fou Wah Industrial Building, 10-16 Pun Shan Street, Tsuen Wan, New Territories, Hong Kong.
香港新界荃灣半山街 10 至 16 號富華工業大廈三及四樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術	
	Chemical tests :- (cont'd)		
Toys	- Migration of certain elements:	EN71-3: 2019	.vs.
		EN71-3: 2019 + A1: 2021	.vs.
Category II toy materials: Liquid or sticky materials	Aluminum, Antimony, Arsenic, Barium, Boron, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Mercury, Nickel, Selenium, Strontium, Tin and Zinc	Annex E (ICP-MS)	.vs.
	Tin (for screening for total organic tin)	Alternative method as documented in MS-0040970 (ICP-MS)	.vs.
	Chromium (VI) and Chromium (III) (by calculation)	Annex F (IC-ICP-MS/MS)	.vs.
Category III toy materials: Scraped-off materials	Aluminum, Antimony, Arsenic, Barium, Boron, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Mercury, Nickel, Selenium, Strontium, Tin and Zinc	Annex E (ICP-MS)	.vs.
	Chromium (for screening for Cr(VI)) Tin (for screening for total organic tin)	Alternative method as documented in MS-0040970 (ICP-MS)	.vs.
	Chromium (VI) and Chromium (III) (by calculation)	Annex F (IC-ICP-MS/MS)	.vs.
	Organic Tin: Methyl tin, Butyltin, Dibutyl tin, Tributyl tin, Tetrabutyl tin, n-Octy tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin, Triphenyl tin, Dimethyltin	Annex G (GC-MS)	

TÜ V Rheinland Hong Kong Limited
香港德國萊茵技術監護顧問股份有限公司
3/F & 4/F, Fou Wah Industrial Building, 10-16 Pun Shan Street, Tsuen Wan, New Territories, Hong Kong.
香港新界荃灣半山街 10 至 16 號富華工業大廈三及四樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術	
	Chemical tests :- (cont'd)		
Toys and children's products made of plastic	Cadmium content	Regulation (EC) No. 1907/2006 on REACH Annex XVII Item No 23 as amended by Commission Regulation (EC) No. 494/2011 and Corr.	.vs.
		Test procedures for compliance testing for Cadmium content in plastics:-	
		EN 1122: 2001 (Wet decomposition: method B)	.vs.
		BS EN 1122: 2001 (Wet decomposition: method B)	.vs.
		DIN EN 1122: 2002 (Wet decomposition: method B)	.vs.

TÜ V Rheinland Hong Kong Limited
香港德國萊茵技術監護顧問股份有限公司
3/F & 4/F, Fou Wah Industrial Building, 10-16 Pun Shan Street, Tsuen Wan, New Territories, Hong Kong.
香港新界荃灣半山街 10 至 16 號富華工業大廈三及四樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術	
	Chemical tests (cont'd)		
Toys and children's product made of plastic	Phthalates: - Di-n-butyl phthalate (DBP) - Benzyl butyl phthalate (BBP) - Bis-(2-ethylhexyl) phthalate (DEHP) - Di-n-octyl phthalate (DNOP) - Di-iso-nonyl phthalate (DINP) - Di-iso-decyl phthalate (DIDP) - Di-iso-butyl phthalate (DIBP)	ISO 8124-6:2018 Method A	
Toys and children's product made of plastic	Phthalates: - Dibutyl phthalate (DBP) - Benzyl butyl phthalate (BBP) - Bis(2-ethylhexyl) phthalate (DEHP) - Di-n-octyl phthalate (DNOP) - Di-iso-nonyl phthalate (DINP) - Di-iso-decyl phthalate (DIDP) - Di-iso-butyl phthalate (DIBP)	GB/T 22048:2022 Method A (Internal standard calibration)	
Toys and childcare articles	Phthalates: - Di(2-ethylhexyl) phthalate (DEHP) - Dibutyl phthalate (DBP) - Benzyl butyl phthalate (BBP) - Diisononyl phthalate (DINP) - Diisobutyl phthalate (DIBP) - Di-n-pentyl phthalate (DPENP) - Di-n-hexyl phthalate (DHEXP) - Dicyclohexyl phthalate (DCHP)	US Public Law 110-314 Consumer Product Safety Improvement Act 2008, its Amending Act (Public Law 112-28), Title 1, Sec. 108 Child care items and toys US 16 CFR Part 1307 *Test procedures for compliance testing:* CPSC-CH-C1001-09.4 Standard Operating Procedure for Determination of Phthalates, January 17, 2018	
Textile products from toy materials	Free formaldehyde content	BS EN ISO 14184-1: 2011 ISO 14184-1: 2011	.vs. .vs.

TÜ V Rheinland Hong Kong Limited
香港德國萊茵技術監護顧問股份有限公司
3/F & 4/F, Fou Wah Industrial Building, 10-16 Pun Shan Street, Tsuen Wan, New Territories, Hong Kong.
香港新界荃灣半山街 10 至 16 號富華工業大廈三及四樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術	
	Chemical tests :- (cont'd)		
		Japan Toy Safety Standard ST2016 (2019.12.03), English version, Part 3	.vs.
All toys' materials	- Colouring matters	Cl. 1.1	.vs.
		Test Procedures for Compliance testing:	
		Cl. 2.1	.vs.
		Cl. 1.2	.vs.
Materials which are mainly composed of		*Test Procedures for Compliance testing*:	
polyethylene,	Consumption of potassium permanganate	Cl. 1.2.1 & Cl. 2.2	.vs.
polyvinyl chloride	and residue on evaporation	Cl. 1.2.1 & Cl. 2.3	.vs.
(excluding parts on which paint coating is	Heavy metals	Cl. 1.2.1 & Cl. 2.4	.vs.
applied)	Arsenic	Cl. 1.2.1 & Cl. 2.5	.vs.
	Cadmium (excluding materials mainly composed of polyethylene)	Cl. 1.2.1 & Cl. 2.6	.vs.
Decalcomania, folded paper		Cl. 1.3	.vs.
and rubber-made toys		*Test Procedures for Compliance testing*:	
(excluding rubber pacifiers)	Heavy metals	Cl. 1.3.1 & Cl. 2.4	.vs.
	Arsenic	Cl. 1.3.1 & Cl. 2.5	.vs.
Polyvinyl chloride resin coating		Cl. 1.4	.vs.
		Test Procedures for Compliance testing:	
	Consumption of potassium permanganate,	Cl. 1.4.1 & Cl. 2.2	.vs.
	Residue after evaporation	Cl. 1.4.1 & Cl. 2.3	.vs.
The paint coating applied to the body or the		Cl. 1.5	.vs.
components of the toys (excluding the		*Test Procedures for Compliance testing*:	
printing ink used for paper containers)	- Heavy metals: 8 elements (antimony, arsenic, barium, cadmium, chromium, lead, mercury and selenium)	Cl. 1.5.1 & Cl. 2.7 (1) ①, (2) & (3)	.vs.
Textile products used for toys		Cl. 1.6	.vs.
		Test Procedures for Compliance testing:	
	- Free formaldehyde	Cl. 1.6 & Cl. 2.8 ***<Excluding the following>*** Confirmation test by HPLC	.vs.

TÜ V Rheinland Hong Kong Limited
香港德國萊茵技術監護顧問股份有限公司
3/F & 4/F, Fou Wah Industrial Building, 10-16 Pun Shan Street, Tsuen Wan, New Territories, Hong Kong.
香港新界荃灣半山街 10 至 16 號富華工業大廈三及四樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術	
	Chemical tests :- (cont'd)		
		Japan Toy Safety Standard ST2016 (2019.12.03), English version, Part 3	.vs.
Ink and the like used for the graphic instruments that are provided with the toys such as pencils, ball-point pens, markers, crayons, pastels, water colours, chalks, etc.		Cl. 1.8 *Test Procedures for Compliance testing*:	.vs.
	- Colouring matters	Cl. 2.1	.vs.
	- Heavy metals: 8 elements (antimony, arsenic, barium, cadmium, chromium, lead, mercury and selenium)	Cl. 1.8.2 & Cl. 2.7 (1) ②, (2) & (3)	.vs.
Plasticized material in toys (polyvinyl chloride, polyurethane and rubber)		Cl. 1.9 <***Excluding the following***> Cl. 1.9.3 *Test Procedures for Compliance testing*:	
	- Bis (2-ethylhexyl) phthalate, - Dibutyl phthalate - Butyl benzyl phthalate - Di-isononyl phthalate - Di-isodecyl phthalate - Di-n-octyl phthalate	Cl. 2.10	
Metals used for toy (neither painted nor covered)		Cl. 1.11	.vs.
	- Lead	*Test Procedures for Compliance testing*: Cl. 2.12 & 2.7 (2) & (3)	.vs.

TÜ V Rheinland Hong Kong Limited
香港德國萊茵技術監護顧問股份有限公司
3/F & 4/F, Fou Wah Industrial Building, 10-16 Pun Shan Street, Tsuen Wan, New Territories, Hong Kong.
香港新界荃灣半山街 10 至 16 號富華工業大廈三及四樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術	
	Chemical tests :- (cont'd)		
		Specifications and Standards for Foods, Food Additives, etc. Under the Food Sanitation Law (ABSTRACTS) JETRO April 2011, Part V "TOYS"	.vs.
		Test procedures for compliance testing:-	
		Specifications, Standards and Testing Methods for Foodstuffs, Implements, Containers and Packaging, Toys, Detergents, JETRO January 2009 (based on the tentative English translation published by JETRO, January 2009)	.vs.
Decals stickers	Heavy metals	Part III A-1 & Part II B-4	.vs.
	Arsenic	Part III A-1 & Part II B-7	.vs.
Origami paper	Heavy metals	Part III A-2 & Part III A-1 (2)a & Part II B-4	.vs.
	Arsenic	Part III A-2 & Part III A-1 (2)b & Part II B-7	.vs.
Coating of toys	Cadmium, lead and Arsenic	Part III A-4 & Part II B-9	.vs.
Coating which contains polyvinyl chloride	Potassium permanganate consumption	Part III A-5 & Part II B-1	.vs.
	Evaporation residue	Part III A-5 & Part II B-5	.vs.
Parts which are made from polyvinyl chloride, not including the coatings	Potassium permanganate consumption	Part III A-6 & Part III A-5 (2)a & Part II B-1	.vs.
	Heavy metals	Part III A-6 & Part III A-1(2)a & Part II B-4	.vs.
	Cadmium	Part III A-6 & Part II B-9	.vs.
	Evaporation residue	Part III A-6 & Part III A-5(2)b & Part II B-5	.vs.
	Arsenic	Part III A-6 & Part III A-1(2)b & Part II B-7	.vs.

TÜ V Rheinland Hong Kong Limited
香港德國萊茵技術監護顧問股份有限公司
3/F & 4/F, Fou Wah Industrial Building, 10-16 Pun Shan Street, Tsuen Wan, New Territories, Hong Kong.
香港新界荃灣半山街 10 至 16 號富華工業大廈三及四樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術	
	Chemical tests :- (cont'd)		
		Specifications and Standards for Foods, Food Additives, etc. Under the Food Sanitation Law (ABSTRACTS) JETRO April 2011, Part V "TOYS" *Test procedures for compliance testing:-* Specifications, Standards and Testing Methods for Foodstuffs, Implements, Containers and Packaging, Toys, Detergents, JETRO January 2009 (based on the tentative English translation published by JETRO, January 2009)	.vs. .vs.
Plasticized material in toys (polyvinyl chloride, polyurethane and Rubber)	Bis(2-ethylhexyl) phthalate Dibutyl Phthalate Butyl benzyl phthalate Di-isononyl phthalate Di-isodecyl phthalate Di-n-octyl phthalate	Part III A-7 and A-8 *Test procedures for compliance testing:* Japan Toy Safety Standard ST2016 (2019.12.03) English version, Part 3 Cl. 2.10 ***<Excluding the following>*** Cl. 1.9.3	
Parts which are made from polyethylene, not including coatings	Potassium permanganate consumption Heavy metals Evaporation residue Arsenic	Part III A-9 & Part III A-5 (2)a & Part II B-1 Part III A-9 & Part III A-1 (2)a & Part II B-4 Part III A-9 & Part III A-5(2)b & Part II B-5 Part III A-9 & Part III A-1(2)b & Part II B-7	.vs. .vs. .vs. .vs.
Metal jewelry toys, those with probability for infants or preschool children to swallow it.	Soluble Lead	Part III A-10 & Part II B-9	.vs.
Manufacturing standards of toy	Colouring agents	Part III B	.vs.

TÜ V Rheinland Hong Kong Limited
香港德國萊茵技術監護顧問股份有限公司
3/F & 4/F, Fou Wah Industrial Building, 10-16 Pun Shan Street, Tsuen Wan, New Territories, Hong Kong.
香港新界荃灣半山街 10 至 16 號富華工業大廈三及四樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Electrical tests :-	
Battery operated toys	- Battery operated toy safety tests	ASTM F963-17 Section 4.25 < ***Excluding the following*** > Section 4.25.8.1, 4.25.10 and 4.25.11 ASTM F963-23 Section 4.25 < ***Excluding the following*** > Section 4.25.7.1, 4.25.9 and 4.25.10
Electric toys supplied at extra-low voltage	- Compliance inspection and safety tests	IEC 62115: 2017 < ***Excluding the following*** > Cl. 9.1 (test to Annex D), 13.8, 19.2 and 19.3 AS/NZS 62115: 2018 + A1: 2021 BS EN IEC 62115: 2020 + A11: 2020 EN IEC 62115: 2020 + A11: 2020 < ***Excluding the following*** > for the above three standards Cl. 9.1 (test to Annex D), 13.8, 19.2 and 19.3 EN 62115: 2005 + A2: 2011 + A11: 2012 + A12: 2015 < ***Excluding the following*** > Cl. 14.15 and 20 (radiation tests), Annexes E, ZB and ZC (EMF test to EN 62233)

TÜ V Rheinland Hong Kong Limited
香港德國萊茵技術監護顧問股份有限公司
3/F & 4/F, Fou Wah Industrial Building, 10-16 Pun Shan Street, Tsuen Wan, New Territories, Hong Kong.
香港新界荃灣半山街 10 至 16 號富華工業大廈三及四樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Toys	Flammability tests :-	ASTM F963-17 Section 4.2 ASTM F963-23 Section 4.2 Japan Toy Safety Standard ST 2016 Third Edition (2019.12.03) Part 2 (based on the English version provided by JTA in December 2019) ***<Excluding the following>*** Tests for flammable gas, extremely flammable liquids, highly flammable liquids and flammable gels AS/NZS 8124.2: 2016 BS EN 71-2: 2011 + A1: 2014 EN 71-2: 2011 + A1: 2014 ISO 8124-2: 2014 ***<Excluding the following>*** for the above four standards tests for flammable gas, extremely flammable liquids, highly flammable liquids and flammable gels EN 71-2: 2020 ISO 8124-2: 2023 ***<Excluding the following>*** for the above two standards tests for flammable gas, extremely flammable liquids, highly flammable liquids and flammable gels

TÜ V Rheinland Hong Kong Limited
香港德國萊茵技術監護顧問股份有限公司
3/F & 4/F, Fou Wah Industrial Building, 10-16 Pun Shan Street, Tsuen Wan, New Territories, Hong Kong.
香港新界荃灣半山街 10 至 16 號富華工業大廈三及四樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Toys	Flammability tests	GB 6675.1-2014 Cl. 5.2.1, and GB 6675.3-2014 ***<Excluding the following>*** Tests for flammable gas, highly flammable liquids, flammable liquids and flammable gels
玩具	燃燒性能測試	GB 6675.1-2014 Cl. 5.2.1 及 GB 6675.3-2014 ***<不包括>*** 易燃氣體、高度易燃液體、易燃液體和易燃凝膠體

TÜ V Rheinland Hong Kong Limited
香港德國萊茵技術監護顧問股份有限公司
3/F & 4/F, Fou Wah Industrial Building, 10-16 Pun Shan Street, Tsuen Wan, New Territories, Hong Kong.
香港新界荃灣半山街 10 至 16 號富華工業大廈三及四樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Physical and mechanical tests :-	
Toys	- Safety tests	Federal Hazardous Substances Act Regulations 16 CFR 1500.48 16 CFR 1500.49 16 CFR 1500.50 16 CFR 1500.51 16 CFR 1500.52 16 CFR 1500.53 16 CFR 1501 16 CFR 1510 16 CFR 1511
Toys	- Safety tests	ASTM F963-17 Section 4.1, 4.3.7, 4.5 to 4.24, 4.26 to 4.28, 4.30 to 4.41, 5, 6, 7 and 8 ***<Excluding the following>*** Cl. 4.8.1 and 4.15.5 (toys intended to accommodate multiple children) ASTM F963-23 Section 4.1, 4.3.7, 4.5 to 4.24, 4.26 to 4.28, 4.30 to 4.41, 5, 6, 7 and 8 ***<Excluding the following>*** Cl. 4.8.1 and 4.15.5 (toys intended to accommodate multiple children)
Marbles, small balls, balloons and other small parts intended for use by children above 3 years of age	- Determination of misbranded toys	16 CFR 1500.19

TÜ V Rheinland Hong Kong Limited
香港德國萊茵技術監護顧問股份有限公司
3/F & 4/F, Fou Wah Industrial Building, 10-16 Pun Shan Street, Tsuen Wan, New Territories, Hong Kong.
香港新界荃灣半山街 10 至 16 號富華工業大廈三及四樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Physical and mechanical tests :- 機械及物理性能測試 :-	
Toys	- Safety tests	AS/NZS ISO 8124.1: 2019 + A1: 2020 + A2: 2020 ISO 8124-1: 2018 + A1: 2020 + A2: 2020 ***<Excluding the following>*** for the above two standards Cl. 4.8.2 AS/NZS 8124.1: 2023 ISO 8124-1: 2022 ***<Excluding the following>*** for the above two standards Cl. 4.8.2 EN 71-1: 2014 + A1: 2018 ***<Excluding the following>*** Cl. 4.18 (tests to EN 15649-3), 4.20.2.5, 4.20.2.12, 4.26 Japan Toy Safety Standard ST 2016 Third Edition (2019.12.03) Part 1 (based on the English version provided by JTA in December 2019) ***<Excluding the following>*** Cl. 4.25
Toys	Physical and mechanical tests	GB 6675.1-2014 Cl. 5.1.1, 5.1.2, 5.1.3, 5.1.4, 5.1.6, 5.1.8, 5.1.9(a), 5.1.10, 5.7 and GB 6675.2-2014
玩具	機械和物理性能測試	GB 6675.1-2014 Cl. 5.1.1, 5.1.2, 5.1.3, 5.1.4, 5.1.6, 5.1.8, 5.1.9(a), 5.1.10, 5.7 及 GB 6675.2-2014

TÜ V Rheinland Hong Kong Limited
香港德國萊茵技術監護顧問股份有限公司

Summary of Voluntary Suspension

.vs. denotes tests for which accreditation has been voluntarily suspended with effect from 21 June 2025.

(Notification Letter no. HOKLAS073-123)

Water Supplies Department - Meter Testing Laboratory
水務署 - 水錶測試實驗所

ADDRESS : 2/F., Water Supplies Department Workshop, 300, Lung Cheung Road, Kowloon, Hong Kong
地址 香港九龍龍翔道300號水務署機械及電機工場2字樓

ENQUIRY : Mr LOK Kwok-wai, Mechanical Engineer/Meter (2)
查詢 駱國偉先生，機械工程師

TELEPHONE : 2634 3669
電話

FAX : 2511 6515
傳真

E-MAIL : kw_lok@wsd.gov.hk
電郵

CLIENTELE : Government departments, normally not available for public testing
服務對象 通常只服務政府部門

Water Supplies Department - Meter Testing Laboratory
水務署 – 水錶測試實驗所

ADDRESS **地址**	:	2/F., Water Supplies Department Workshop, 300, Lung Cheung Road, Kowloon, Hong Kong 香港九龍龍翔道 300 號水務署機械及電機工場 2 字樓
ACCREDITED TEST CATEGORY **認可測試類別**	:	Calibration Services 校正服務

Water Supplies Department - Meter Testing Laboratory
水務署 – 水錶測試實驗所
2/F., Water Supplies Department Workshop, 300, Lung Cheung Road, Kowloon, Hong Kong
香港九龍龍翔道 300 號水務署機械及電機工場 2 字樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Flow measurements		
Water meter with or without electronic output signal (M-Bus)	Calibration for the volume of water passed through the water meter in accordance with Cl. 7.4.2 of ISO 4064-2: 2014	
- mechanical type - size of meter : 15 mm to 25 mm (½ in to 1 in)	The volume of water collected is nominally 500 litre	0.20 % of reading
- mechanical, electromagnetic or ultrasonic type - size of meter : 40 mm (1½ in)	The volume of water collected is nominally 500 litre	0.64 % of reading
- mechanical, electromagnetic or ultrasonic type - size of meter : 50 mm to 100 mm (2 in to 4 in)	The volume of water collected is nominally 2500 litre	0.68 % of reading
- mechanical or electromagnetic type - size of meter : 150 mm to 200 mm (6 in to 8 in)	The volume of water collected is nominally 2500 litre	0.72 % of reading

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

South China National Centre of Metrology
華南國家計量測試中心

ADDRESS 地址	:	No. 30, Songbaidong St., Guangyuanzhong Road, Guangzhou, China 中國廣州市廣園中路松柏東街30號
ENQUIRY 查詢	:	Mr CHEN Minghua, Chief Engineer 陳明華先生
TELEPHONE 電話	:	(86) 20 2629 7220
FAX 傳真	:	(86) 20 8659 6502
E-MAIL 電郵	:	cmh@scm.com.cn
WEBSITE ADDRESS 網址	:	www.scm.com.cn
CLIENTELE 服務對象	:	Public 公眾

South China National Centre of Metrology
華南國家計量測試中心

ADDRESS **地址**	:	No. 30, Songbaidong Street, Guangyuanzhong Road, Guangzhou, China 中國廣州市廣園中路松柏東街 30 號
ACCREDITED TEST CATEGORY **認可測試類別**	:	Calibration Services 校正服務

South China National Centre of Metrology
華南國家計量測試中心
No. 30, Songbaidong Street, Guangyuanzhong Road, Guangzhou, China
中國廣州市廣園中路松柏東街 30 號

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related measurement		
- Angle		
- Angle gauge	Verification for angle in accordance with JJG 70-2004 over the following range:	
- Grade 0	0° to 360°	0.9 second of arc
- Grade 1 and 2	0° to 360°	1.4 seconds of arc
- Angular polygon	Verification for angle in accordance with JJG 283-2007 over the following range:	
	0° to 360°	0.4 second of arc
- General bevel protractor	Verification for angle in accordance with JJF 1959-2021 over the following range:	
- Resolution: 2’	0° to 320°	1 minute of arc
- Resolution: 5’	0° to 360°	3 minutes of arc
- Level	Verification for angle to horizontal level using parallel light tube in accordance with JJG 425-2003 over the following range:	
- Bubble level		
- Grade DS1	-30' to +30'	2.0 seconds of arc
- Grade DS3	-30' to +30'	2.7 seconds of arc
- Automatic level		
- Grade DSZ1	-30' to +30'	2.0 seconds of arc
- Grade DSZ3	-30' to +30'	2.4 seconds of arc

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

South China National Centre of Metrology
華南國家計量測試中心
No. 30, Songbaidong Street, Guangyuanzhong Road, Guangzhou, China
中國廣州市廣園中路松柏東街 30 號

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED[@]** 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related measurement		
- Angle		
- Level	Verification for angle using small angle measurement machine in accordance with JJG 103-2005 over the following range:	
- Coincidence level	-5 mm/m to +5 mm/m	0.002 mm/m
- Electronic level - Resolution: 0.001 mm/m	-5 mm/m to +5 mm/m	0.002 mm/m
- Resolution: 0.01 mm/m	-5 mm/m to +5 mm/m	0.02 mm/m
- Level	Verification for angle using level tester in accordance with JJF 1084-2002 over the following range:	
- Frame level - Resolution: 0.02 mm/m, 0.05 mm/m and 0.10 mm/m	0.02 mm/m to 1.5 mm/m	4 %
- Strip level - Resolution: 0.02 mm/m, 0.05 mm/m and 0.10 mm/m	0.02 mm/m to 1.5 mm/m	4 %
- Level ruler	Verification for angle in accordance with JJF 1085-2002 over the following range:	
- Resolution: 5 mm/m and 10 mm/m	0.5 mm/m to 10 mm/m	8 %

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

South China National Centre of Metrology
華南國家計量測試中心
No. 30, Songbaidong Street, Guangyuanzhong Road, Guangzhou, China
中國廣州市廣園中路松柏東街 30 號

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related measurement		
- Angle		
- Optical theodolite	Verification for angle using parallel light in accordance with JJG 414-2011 over the following range:	
- Class DJ_1	0° to 360°	0.33 second of arc
- Class DJ_2	0° to 360°	0.54 second of arc
- Class DJ_6	0° to 360°	2.0 seconds of arc
- Precise angle dividing table	Verification for angle in accordance with JJG 472-2007 over the following range:	
- Class 0	0° to 360°	0.09 second of arc
- Class 1	0° to 360°	0.11 second of arc
- Class 2	0° to 360°	0.13 second of arc
- Square (Cylindrical, rectangular, triangular, knife cast-iron, wide-stand, straight square)	Verification for squareness in accordance with JJG 7-2004 over the following range:	
- Length: 63 mm to below 300 mm	0 to 300 μm	1.8 μm
- Length: 300 mm to below 500 mm	0 to 300 μm	2.4 μm
- Length: 500 mm to 1000 mm	0 to 300 μm	5.0 μm

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

South China National Centre of Metrology
華南國家計量測試中心
No. 30, Songbaidong Street, Guangyuanzhong Road, Guangzhou, China
中國廣州市廣園中路松柏東街 30 號

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED[@]** 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related measurement		
- Form		
- Optical flat	Verification for flatness in accordance with JJG 28-2019 over the following range:	
- Diameter: 30 mm	0 to 0.2 μm	0.008 μm
- Diameter: 45 mm	0 to 0.2 μm	0.008 μm
- Diameter: 60 mm	0 to 0.2 μm	0.009 μm
- Diameter: 80 mm	0 to 0.2 μm	0.014 μm
- Diameter: 100 mm	0 to 0.2 μm	0.017 μm
- Optical parallel - Thickness: 15.00 mm to 91.00 mm	Verification for the following parameters in accordance with JJG 28-2019 over the following range:	
	- Flatness 0 to 0.2 μm	0.02 μm
	- Parallelism 0 to 2 μm	0.2 μm
- Roughness comparison sample	Verification for roughness in accordance with JJF 1099-2018 at the following values:	
	0.1 μm	6.8 % of reading
	0.2 μm	5.8 % of reading
	0.4 μm	4.9 % of reading
	0.8 μm	4.2 % of reading
	1.6 μm	4.2 % of reading
	3.2 μm	4.2 % of reading
	6.3 μm	4.2 % of reading

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

South China National Centre of Metrology
華南國家計量測試中心
No. 30, Songbaidong Street, Guangyuanzhong Road, Guangzhou, China
中國廣州市廣園中路松柏東街 30 號

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related measurement		
- Form		
- Straight edge	Verification for straightness in accordance with JJF 1097-2021 over the following range:	
- Length: 800 mm	0 to 1 mm	0.6 μm
- Length: 1000 mm	0 to 1 mm	0.6 μm
- Length: 2000 mm	0 to 1 mm	1.0 μm
- Length: 3000 mm	0 to 1 mm	1.3 μm
- Surface plate and surface table	On-site verification for flatness in accordance with JJG 117-2013 over the following range:	
- Dimensions: 300 mm x 300 mm, 400 mm x 300 mm, 400 mm x 400 mm	0 to 70 μm	0.6 μm
- Dimensions: 500 mm x 500 mm, 600 mm x 450 mm, 630 mm x 400 mm	0 to 90 μm	0.9 μm
- Dimensions: 800 mm x 500 mm, 800 mm x 600 mm	0 to 100 μm	1.2 μm
- Dimensions: 1000 mm x 630 mm, 1000 mm x 750 mm, 1000 mm x 800 mm	0 to 120 μm	1.5 μm
- Dimensions: 1500 mm x 1000 mm	0 to 150 μm	1.8 μm
- Dimensions: 3000 mm x 2000 mm	0 to 200 μm	6.0 μm

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

South China National Centre of Metrology
華南國家計量測試中心
No. 30, Songbaidong Street, Guangyuanzhong Road, Guangzhou, China
中國廣州市廣園中路松柏東街 30 號

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related measurement		
- Form		
- Toolmaker's straight edge	Verification for straightness in accordance with JJG 63-2007 over the following range:	
- Length: 75 mm, 125 mm, 175 mm	0 to 5 μm	0.3 μm
- Length: 225 mm, 300 mm	0 to 5 μm	0.6 μm

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

South China National Centre of Metrology
華南國家計量測試中心
No. 30, Songbaidong Street, Guangyuanzhong Road, Guangzhou, China
中國廣州市廣園中路松柏東街 30 號

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED[@]** 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related measurement		
- Length		
- Caliper	Verification for length in accordance with JJG 30-2012 over the following ranges:	
- Dial type		
- Scale division: 0.01 mm	0.5 mm to 70 mm	0.004 mm
	Above 70 mm to 150 mm	0.004 mm
	Above 150 mm to 200 mm	0.005 mm
	Above 200 mm to 300 mm	0.008 mm
- Scale division: 0.02 mm	0.5 mm to 70 mm	0.004 mm
	Above 70 mm to 150 mm	0.005 mm
	Above 150 mm to 200 mm	0.006 mm
	Above 200 mm to 300 mm	0.009 mm
- Scale division: 0.05 mm	0.5 mm to 70 mm	0.006 mm
	Above 70 mm to 150 mm	0.007 mm
	Above 150 mm to 200 mm	0.008 mm
	Above 200 mm to 300 mm	0.010 mm
- Digital type		
- Resolution: 0.01 mm	0.5 mm to 450 mm	0.01 mm
	Above 450 mm to 600 mm	0.02 mm
	Above 600 mm to 1500 mm	0.03 mm
	Above 1500 mm to 2000 mm	0.04 mm
- Vernier type		
- Scale division: 0.02 mm	0.5 mm to 300 mm	0.01 mm
	Above 300 mm to 600 mm	0.02 mm
	Above 600 mm to 1500 mm	0.03 mm
	Above 1500 mm to 2000 mm	0.04 mm
- Scale division: 0.05 mm	0.5 mm to 500 mm	0.02 mm
	Above 500 mm to 1000 mm	0.03 mm
	Above 1000 mm to 1500 mm	0.04 mm
	Above 1500 mm to 2000 mm	0.05 mm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

South China National Centre of Metrology
華南國家計量測試中心
No. 30, Songbaidong Street, Guangyuanzhong Road, Guangzhou, China
中國廣州市廣園中路松柏東街 30 號

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related measurement		
- Length		
- Dial gauge	Verification for length in accordance with JJG 34-2022 over the following range:	
- Scale division or resolution: 0.001 mm	0.001 mm to 1 mm Above 1 mm to 2 mm Above 2 mm to 5 mm	1.2 µm 1.8 µm 3.5 µm
- Scale division or resolution: 0.01 mm	0.01 mm to 10 mm Above 10 mm to 30 mm Above 30 mm to 50 mm	5 µm 7 µm 10 µm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

South China National Centre of Metrology
華南國家計量測試中心
No. 30, Songbaidong Street, Guangyuanzhong Road, Guangzhou, China
中國廣州市廣園中路松柏東街 30 號

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related measurement		
- Length		
- Digital indicator	Verification for length in accordance with in-house method FFC9907-2009 over the following ranges:	
- Resolution: 0.001 mm	0.5 mm to 50 mm Above 50 mm to 100 mm	1 µm 2 µm
- Resolution: 0.01 mm	0.5 mm to 100 mm	10 µm
- Feeler gauge	Verification for length in accordance with JJG 62-2017 over the following range:	
	0.02 mm to 1.00 mm	1 µm

South China National Centre of Metrology
華南國家計量測試中心
No. 30, Songbaidong Street, Guangyuanzhong Road, Guangzhou, China
中國廣州市廣園中路松柏東街 30 號

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related measurement		
- Length		
- Grade 3 gauge block	Verification for length using electronic comparator in accordance with JJG 146-2011 over the following range:	
	0.5 mm to 100 mm	$(0.05 + 0.7 \times 10^{-6} L)$ μm where L is the length in mm
	Verification for length using interferometer in accordance with JJG 146-2011 over the following range:	
	125 mm to 500 mm	$(0.05 + 0.7 \times 10^{-6} L)$ μm where L is the length in mm
- Grade 4 gauge block	Verification for length using length measurement machine in accordance with JJG 146-2011 at the following values:	
	600 mm	0.8 μm
	700 mm	0.9 μm
	800 mm	1.1 μm
	900 mm	1.2 μm
	1000 mm	1.3 μm

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

South China National Centre of Metrology
華南國家計量測試中心
No. 30, Songbaidong Street, Guangyuanzhong Road, Guangzhou, China
中國廣州市廣園中路松柏東街 30 號

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related measurement		
- Length		
- Height caliper	Verification for height in accordance with JJG 31-2011 over the following ranges:	
- Dial height caliper		
- Scale division: 0.01 mm	10 mm to 300 mm	0.009 mm
	Above 300 mm to 500 mm	0.013 mm
	Above 500 mm to 600 mm	0.016 mm
	Above 600 mm to 1000 mm	0.025 mm
	Above 1000 mm to 1500 mm	0.043 mm
	Above 1500 mm to 2000 mm	0.063 mm
- Digital height caliper		
- Resolution: 0.01 mm	10 mm to 300 mm	0.01 mm
	Above 300 mm to 600 mm	0.02 mm
	Above 600 mm to 1000 mm	0.03 mm
	Above 1000 mm to 1500 mm	0.05 mm
	Above 1500 mm to 2000 mm	0.07 mm
- Vernier height caliper		
- Scale division: 0.02 mm	10 mm to 300 mm	0.01 mm
	Above 300 mm to 600 mm	0.02 mm
	Above 600 mm to 1000 mm	0.03 mm
	Above 1000 mm to 1500 mm	0.05 mm
	Above 1500 mm to 2000 mm	0.07 mm
- Scale division: 0.05 mm	10 mm to 600 mm	0.03 mm
	Above 600 mm to 1000 mm	0.04 mm
	Above 1000 mm to 1500 mm	0.05 mm
	Above 1500 mm to 2000 mm	0.07 mm

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

South China National Centre of Metrology
華南國家計量測試中心
No. 30, Songbaidong Street, Guangyuanzhong Road, Guangzhou, China
中國廣州市廣園中路松柏東街 30 號

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related measurement		
- Length		
- Inductive micrometer	Calibration for length in accordance with JJF 1331-2011 over the following range:	
- Pointer type		
- Scale division: 0.1 μm	-3 μm to 3 μm	0.03 μm
- Scale division: 1 μm	-30 μm to 30 μm	0.23 μm
- Scale division: 10 μm	-300 μm to 300 μm	2 μm
- Digital type		
- Resolution: 0.01 μm	-10 μm to 10 μm	0.02 μm
- Resolution: 0.1 μm	-100 μm to 100 μm	0.3 μm
- Resolution: 1 μm	-500 μm to 500 μm	2 μm
- Level rod	Verification for length in accordance with JJG 8-1991 over the following ranges:	
	0.01 m to 3 m	0.6 mm
	Above 3 m to 5 m	0.9 mm

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

South China National Centre of Metrology
華南國家計量測試中心
No. 30, Songbaidong Street, Guangyuanzhong Road, Guangzhou, China
中國廣州市廣園中路松柏東街 30 號

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED[@]** 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related measurement		
- Length		
- Micrometer		
- External digital type	Verification for length in accordance with JJG 21-2008 over the following range:	
	5.12 mm to 25 mm	0.7 µm
	Above 25 mm to 50 mm	0.8 µm
	Above 50 mm to 75 mm	0.9 µm
	Above 75 mm to 100 mm	1.0 µm
	Above 100 mm to 125 mm	0.9 µm
	Above 125 mm to 150 mm	1.0 µm
	Above 150 mm to 175 mm	1.1 µm
	Above 175 mm to 225 mm	1.2 µm
	Above 225 mm to 250 mm	1.3 µm
	Above 250 mm to 300 mm	1.4 µm
	Above 300 mm to 325 mm	1.5 µm
	Above 325 mm to 350 mm	1.6 µm
	Above 350 mm to 375 mm	1.7 µm
	Above 375 mm to 400 mm	1.8 µm
	Above 400 mm to 425 mm	1.9 µm
	Above 425 mm to 475 mm	2.0 µm
	Above 475 mm to 500 mm	2.1 µm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

South China National Centre of Metrology
華南國家計量測試中心
No. 30, Songbaidong Street, Guangyuanzhong Road, Guangzhou, China
中國廣州市廣園中路松柏東街 30 號

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related measurement		
- Length		
- Micrometer		
- External vernier type	Verification for length in accordance with JJG 21-2008 over the following range:	
	5.12 mm to 25 mm	0.7 µm
	Above 25 mm to 50 mm	0.8 µm
	Above 50 mm to 75 mm	0.9 µm
	Above 75 mm to 100 mm	1.1 µm
	Above 100 mm to 125 mm	1.2 µm
	Above 125 mm to 150 mm	1.4 µm
	Above 150 mm to 175 mm	1.7 µm
	Above 175 mm to 200 mm	1.9 µm
	Above 200 mm to 225 mm	2.4 µm
	Above 225 mm to 250 mm	2.6 µm
	Above 250 mm to 275 mm	2.8 µm
	Above 275 mm to 300 mm	3.1 µm
	Above 300 mm to 325 mm	3.3 µm
	Above 325 mm to 350 mm	3.5 µm
	Above 350 mm to 375 mm	3.8 µm
	Above 375 mm to 400 mm	4.0 µm
	Above 400 mm to 425 mm	4.3 µm
	Above 425 mm to 450 mm	4.5 µm
	Above 450 mm to 475 mm	4.7 µm
	Above 475 mm to 500 mm	5.0 µm
- Internal type	Verification for length in accordance with JJG 22-2014 at the following values:	
	100 mm	2 µm
	200 mm	2 µm
	300 mm	2 µm
	600 mm	4 µm
	1000 mm	5 µm
	1200 mm	6 µm
	1500 mm	7 µm
	2000 mm	10 µm

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

South China National Centre of Metrology
華南國家計量測試中心
No. 30, Songbaidong Street, Guangyuanzhong Road, Guangzhou, China
中國廣州市廣園中路松柏東街 30 號

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related measurement		
- Length		
- Numerically controlled machine tool	On-site calibration for length in accordance with JJF 1251-2010 over the following range:	
	0.01 mm to 10 m	(0.8 + 5.9L) μm where L is the length in m
- Projector	On-site calibration for length in accordance with JJF 1093-2015 over the following range:	
	0.01 mm to 200 mm	$(1.2 + 2.0 \times 10^{-6} L)$ μm where L is the length in mm
- Steel rule	Verification for length in accordance with JJG 1-1999 over the following range:	
	0.5 mm to 150 mm Above 150 mm to 1000 mm Above 1000 mm to 2000 mm	0.05 mm 0.05 mm 0.07 mm
- Steel tape	Verification for length in accordance with JJG 4-2015 over the following range:	
	0.001 m to 200 m	(0.15 + 0.015L) mm where L is the length in m

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

South China National Centre of Metrology
華南國家計量測試中心
No. 30, Songbaidong Street, Guangyuanzhong Road, Guangzhou, China
中國廣州市廣園中路松柏東街 30 號

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED[@]** 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related measurement		
- Length		
- Thickness gauge		
- Coating thickness gauge		
- Eddy current type	Verification for thickness in accordance with JJG 818-2018 over the following range:	
	12 μm to 982 μm	(0.3 + 0.004H) μm where H is the thickness in mm
- Magnetic resistance type	Verification for thickness in accordance with JJG 818-2018 over the following range:	
	12 μm to 982 μm	(0.3 + 0.004H) μm where H is the thickness in mm
- Ultrasonic type	Calibration for thickness in accordance with JJF 1126-2004 over the following range:	
- Resolution: 0.01 mm	0.5 mm to 200 mm	0.02 mm
- Resolution: 0.1 mm	0.5 mm to 200 mm	0.1 mm
- Film thickness gauge		
- Dial type	Calibration for thickness in accordance with JJF 1255-2010 over the following range:	
- Scale division: 0.001 mm	0.1 mm to 1 mm	1.0 μm
- Scale division: 0.01 mm	0.1 mm to 10 mm	2 μm
- Scale division: 0.1 mm	0.1 mm to 30 mm	0.01 mm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

South China National Centre of Metrology
華南國家計量測試中心
No. 30, Songbaidong Street, Guangyuanzhong Road, Guangzhou, China
中國廣州市廣園中路松柏東街 30 號

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related measurement		
- Length		
- Three coordinates measuring machine	On-site calibration for length in accordance with JJF 1064-2010 at the following values:	
	30 mm	0.5 µm
	125 mm	0.6 µm
	150 mm	0.7 µm
	200 mm	0.7 µm
	250 mm	0.8 µm
	300 mm	0.9 µm
	400 mm	1.2 µm
	500 mm	1.5 µm
	600 mm	1.7 µm
	700 mm	2.0 µm
	800 mm	2.2 µm
	900 mm	2.5 µm
	1000 mm	2.8 µm

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

South China National Centre of Metrology
華南國家計量測試中心
No. 30, Songbaidong Street, Guangyuanzhong Road, Guangzhou, China
中國廣州市廣園中路松柏東街 30 號

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Temperature measurement		
- Digital thermometer	Calibration for temperature in accordance with in-house method FFR 9903-2014 over the following ranges:	
- Resolution: 1 ℃	-40 ℃ to 5 ℃ Above 5 ℃ to 95 ℃ Above 95 ℃ to 250 ℃	1.0 ℃ 1.0 ℃ 1.2 ℃
- Resolution: 0.1 ℃	-40 ℃ to 5 ℃ Above 5 ℃ to 95 ℃ Above 95 ℃ to 250 ℃	0.2 ℃ 0.2 ℃ 0.2 ℃
- Resolution: 0.01 ℃	-40 ℃ to 5 ℃ Above 5 ℃ to 95 ℃ Above 95 ℃ to 250 ℃	0.024 ℃ 0.023 ℃ 0.044 ℃

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

South China National Centre of Metrology
華南國家計量測試中心
No. 30, Songbaidong Street, Guangyuanzhong Road, Guangzhou, China
中國廣州市廣園中路松柏東街 30 號

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Verification of toy testing tool and fixture		
- Accessibility probe A & B,	Verification for the following parameters in accordance with in-house method FFC 0003-2009:	
	- Length	0.02 mm
	- Radius	0.008 mm
- Bite test clamp	Verification for the following parameters in accordance with in-house method FFC 0005-2009:	
	- Length	0.05 mm
	- Radius	0.02 mm
	- Angle	5 minutes of arc
- Rattle test fixture	Verification for the following parameters in accordance with in-house method FFC 0004-2009:	
	- Length	0.009 mm
	- Radius	0.005 mm
- Sharp point tester	Verification for the following parameters in accordance with in-house method FFC 9812-2009:	
	- Length	0.005 mm
	- Force	0.05 N
- Small parts cylinder	Verification for length in accordance with in-house method FFC 0002-2009	0.006 mm

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

SGS - CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
通標標準技術服務有限公司深圳分公司

ADDRESS : SGS Bldg, No. 4, Jianghao Industrial Park, No. 430 Jihua Road, Bantian, Longgang District, Shenzhen, China
地址 中國深圳市龍崗區坂田街道吉華路430號江灝(坂田)工業廠區廠房4號整棟

ENQUIRY : Ms Kiky QU Ping
查詢 Hardlines Laboratory Manager
屈萍女士，輕工產品服務實驗室經理

TELEPHONE : (86) 755 2532 8888-8208
電話

E-MAIL : kiky.qu@sgs.com
電郵

WEBSITE ADDRESS : www.sgsgroup.com.cn
網址

CLIENTELE : Public
服務對象 公眾

SGS - CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
通標標準技術服務有限公司深圳分公司

ADDRESS **地址**	:	SGS Bldg, No. 4, Jianghao Industrial Park, No. 430 Jihua Road, Bantian, Longgang District, Shenzhen, China 中國深圳市龍崗區坂田街道吉華路 430 號江灝(坂田)工業廠區廠房 4 號整棟
ACCREDITED TEST CATEGORY **認可測試類別**	:	Toys and Children's Products 玩具及兒童產品

SGS - CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
通標標準技術服務有限公司深圳分公司
SGS Bldg, No. 4, Jianghao Industrial Park, No. 430 Jihua Road, Bantian, Longgang District, Shenzhen, China
中國深圳市龍崗區坂田街道吉華路 430 號江灝(坂田)工業廠區廠房 4 號整棟

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests :-	
Toys – paint and similar surface-coating materials (not including children's jewelry)	- Total lead content	ASTM F963-23 Cl. 4.3.5.1 (1) Test procedures for compliance testing:- CPSC Test method: CPSC-CH-E1003-09.1 Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings, February 25, 2011
	- Migration of the elements Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	ASTM F963-23 Cl. 4.3.5.1 (2) Test procedures for compliance testing:- ASTM F963-23 Cl. 8.3.2 – 8.3.4
Toys – substrate materials (not including children's jewelry)	- Total lead content	ASTM F963-23 Cl. 4.3.5.2 (2) (a) Test Procedures for Compliance testing:- CPSC Test Method: CPSC-CH-E1001-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Children's Metal Products (Including Children's Metal Jewelry), November 15, 2012 <Excluding the following> XRF spectrometry CPSC Test Method: CPSC-CH-E1002-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Non-Metal Children's Products, November 15, 2012 <Excluding the following> XRF spectrometry
	- Migration of the elements Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	ASTM F963-23 Cl. 4.3.5.2 (2) (b) & (c) Test procedures for compliance testing:- ASTM F963-23 Cl. 8.3.5
Metallic toys or metallic toy components	- Extractable Cadmium	ASTM F963-23 Cl. 4.3.5.2 (2) (d) Test Procedures for Compliance testing:- ASTM F963-23 Cl. 8.3.5.5(3) and CPSC Test Method: CPSC-CH-E1004-11 Standard Operating Procedure for Determining Cadmium (Cd) Extractability from Children's Metal Jewelry, February 03, 2011

SGS - CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
通標標準技術服務有限公司深圳分公司
SGS Bldg, No. 4, Jianghao Industrial Park, No. 430 Jihua Road, Bantian, Longgang District, Shenzhen, China
中國深圳市龍崗區坂田街道吉華路 430 號江灝(坂田)工業廠區廠房 4 號整棟

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Toys (including pacifiers, rattles, and teethers) for children 12 years of age and younger	Chemical tests :- (cont'd) - Dibutyl Phthalate (DBP) - Di-(2ethylhexyl) phthalate (DEHP) - Benzyl Butyl Phthalate (BBP) - Di-iso-nonyl phthalate (DINP) - Diisobutyl Phthalate (DIBP) - Di-n-pentyl phthalate (DPENP) - Di-n-hexyl phthalate (DHEXP) - Dicyclohexyl phthalate (DCHP)	ASTM F963-23 Cl. 4.3.8 *Test procedures for compliance testing:-* CPSC Test Method: CPSC-CH-C1001-09.4 Standard Operating Procedure for Determination of Phthalates, January 17, 2018

SGS - CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
通標標準技術服務有限公司深圳分公司
SGS Bldg, No. 4, Jianghao Industrial Park, No. 430 Jihua Road, Bantian, Longgang District, Shenzhen, China
中國深圳市龍崗區坂田街道吉華路 430 號江灝(坂田)工業廠區廠房 4 號整棟

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests :- (cont'd)	
Toys and other articles intended for use by children – paint and other similar surface-coating materials	- Total lead content	US Public Law 110 -314 Consumer Product Safety Improvement Act 2008 *Test procedures for compliance testing:-* CPSC Test Method CSPC-CH-E1003-09.1 Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Coatings, February 25, 2011
Toys and other articles intended for use by children – paint and other similar surface-coating materials	- Total lead content	US 16 CFR Part 1303 *Test procedures for compliance testing:-* CPSC Test Method CSPC-CH-E1003-09.1 Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Coatings, February 25, 2011
Children's metal products	- Total lead content	US Public Law 110 -314 Consumer Product Safety Improvement Act 2008 *Test procedures for compliance testing:-* CPSC Test Method: CPSC-CH-E1001-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Children's Metal Products (Including Children's Metal Jewelry), Revision November 15, 2012 ***<Excluding the following>*** XRF spectrometry
Children's non-metal products	- Total lead content	US Public Law 110 -314 Consumer Product Safety Improvement Act 2008 *Test procedures for compliance testing:-* CPSC Test Method: CPSC-CH-E1002-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Non-Metal Children's Products, Revision November 15, 2012 ***<Excluding the following>*** XRF spectrometry
Children's metal jewelry	- Extractable Cadmium	CPSC Test Method: CPSC-CH-E1004-11 Standard Operating Procedure for Determining Cadmium (Cd) Extractability from Children's Metal Jewelry, February 03, 2011

SGS - CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
通標標準技術服務有限公司深圳分公司
SGS Bldg, No. 4, Jianghao Industrial Park, No. 430 Jihua Road, Bantian, Longgang District, Shenzhen, China
中國深圳市龍崗區坂田街道吉華路 430 號江灝(坂田)工業廠區廠房 4 號整棟

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests (cont'd):-	
Toys and childcare articles	- Dibutyl Phthalate (DBP) - Di-(2ethylhexyl) phthalate (DEHP) - Benzyl Butyl Phthalate (BBP) - Diisononyl phthalate (DINP) - Diisobutyl phthalate (DIBP) - Di-n-pentyl phthalate (DPENP - Di-n-hexyl phthalate (DHEXP) - Dicyclohexly phthalate (DCHP)	US 16 CFR Part 1307 *Test procedure for compliance testing:-* CPSC Test Method: CPSC-CH-C1001-09.4 Standard Operating Procedure for Determination of Phthalates, January 17, 2018
Toys	- Migration of the elements Antimony, Arsenic, Barium, Boron, Cadmium, Chromium, Lead, Mercury, Selenium	ISO 8124-3: 2020/Amd.1: 2023 (for dewaxing: Method A) AS/NZS ISO 8124.3: 2021 Amd 1: 2023 (for dewaxing: Method A)
Toys	- Migration of the elements Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	GB6675.1-2014 Cl. 5.3.3., 5.3.4 and 5.3.5 (only for migration of elements for toy cosmetics) *Test procedure for compliance testing-* GB 6675.4-2014
玩具	- 特定元素的遷移 銻，砷，鋇，鎘，鉻，鉛，汞，硒	GB6675.1-2014 Cl. 5.3.3., 5.3.4 及 5.3.5 (只適用於玩具化妝品特定元素的遷移) *符合性測試程序* - GB 6675.4-2014

SGS - CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
通標標準技術服務有限公司深圳分公司
SGS Bldg, No. 4, Jianghao Industrial Park, No. 430 Jihua Road, Bantian, Longgang District, Shenzhen, China
中國深圳市龍崗區坂田街道吉華路 430 號江灝(坂田)工業廠區廠房 4 號整棟

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests (cont'd):-	
Toys	- Migration of the elements	Directive 2009/48/EC Annex II, Part III, Point 13 and its amendment Commission Directive (EU) 2018/725 and Commission Directive (EU) 2019/1922 *Test procedures for compliance testing:-* EN 71-3: 2019 + A1: 2021
Category I toy materials: Dry, brittle, powder like or pliable materials	Aluminium, Antimony, Arsenic, Barium, Boron, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Mercury, Nickel, Selenium, Strontium, Tin and Zinc	Annex E (ICP-MS)
	Chromium (VI) Chromium (III) (by calculation)	Annex F (LC-ICP-MS) Alternative method documented in SGS-CCL-SOP -055-01 (IC-UV/VIS)
	Organic Tin: Dimethyl tin, Methyl tin, Dipropyl tin, Dibutyl tin, Tributyl tin, Monoctyl tin, Dioctyl tin, Tetrabutyl tin, Diphenyl tin, Triphenyl tin, Butyl tin	Annex G (GC-MS)
Category III toy materials: Scraped-off materials	Aluminium, Antimony, Arsenic, Barium, Boron, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Mercury, Nickel, Selenium, Strontium, Tin and Zinc	Annex E (ICP-MS) Alternative method documented in SGS-CCL-SOP -055-01 (ICP-OES)
	Chromium (VI) Chromium (III) (by calculation)	Annex F (LC-ICP-MS) Alternative method documented in SGS-CCL-SOP -055-01 (IC-UV/VIS)
	Organic Tin: Dimethyl tin, Methyl tin, Dipropyl tin, Dibutyl tin, Tributyl tin, Monoctyl tin, Dioctyl tin, Tetrabutyl tin, Diphenyl tin, Triphenyl tin, Butyl tin	Annex G (GC-MS)

SGS - CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
通標標準技術服務有限公司深圳分公司
SGS Bldg, No. 4, Jianghao Industrial Park, No. 430 Jihua Road, Bantian, Longgang District, Shenzhen, China
中國深圳市龍崗區坂田街道吉華路 430 號江灝(坂田)工業廠區廠房 4 號整棟

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Electrical tests :- 電性能測試	
Electric toys	- Compliance inspection and safety tests	EN IEC 62115: 2020 +A11:2020 BS EN IEC 62115: 2020 +A11:2020 **< *Excluding the following* >** for the above two standards Cl. 9.1 (test to Annex D), 11 (IP tests to IEC 60529), 18 (burning test to IEC 60695-11-10 and ISO 9772, glow-wire ignition temperature test to IEC 60695-2-13) 19.3, 19.E.2 (accessible emission with wavelengths between 1650 nm and 3000 nm) and 19.E.4 IEC 62115: 2017 + COR1: 2019 AS/NZS 62115:2018 + A1: 2021 **< *Excluding the following* >** for the above two standards Cl. 9.1 (test to Annex D), 11 (IP tests to IEC 60529), 18 (burning test to IEC 60695-11-10 and ISO 9772, glow-wire ignition temperature test to IEC 60695-2-13) 19.3, 19.E.2 (accessible emission with wavelengths between 1650 nm and 3000 nm) and 19.E.4
Electric toys	- Compliance inspection and safety tests	GB 6675.1: 2014 Cl.5.4, and GB 19865-2005 + Amendment 1 **<*Excluding the following* >** Cl. 11.1 (IP tests to GB 4208), 19 (burning test to GB/T 5169.16 and ISO 9772, glow-wire ignition temperature test to GB/T 5169.13) 20 (radiation tests for laser and LED with wavelength $\lambda < 400$ nm or $\lambda > 1000$ nm)
電玩具	- 安全測試	GB 6675.1: 2014 Cl.5.4, and GB 19865-2005 + 第 1 號修改單 **<*不包含*>** Cl. 11.1 (按 GB 4208 的防護測試), 19 (按 GB/T 5169.16 和 ISO 9772 進行的耐燃試驗, GB/T 5169.13 進行的灼熱絲起燃性試驗) 20 (激光器和發出電磁輻射波長少於 400 nm 或大於 1000 nm 的發光二極管的輻射測試)

SGS - CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
通標標準技術服務有限公司深圳分公司
SGS Bldg, No. 4, Jianghao Industrial Park, No. 430 Jihua Road, Bantian, Longgang District, Shenzhen, China
中國深圳市龍崗區坂田街道吉華路 430 號江灝(坂田)工業廠區廠房 4 號整棟

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Electrical tests :- (cont'd)	
Battery operated toys	- Battery operated toys safety tests	ASTM F963-23 Section 4.25 < ***Excluding the following*** > Section 4.25.9

SGS - CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
通標標準技術服務有限公司深圳分公司
SGS Bldg, No. 4, Jianghao Industrial Park, No. 430 Jihua Road, Bantian, Longgang District, Shenzhen, China
中國深圳市龍崗區坂田街道吉華路 430 號江灝(坂田)工業廠區廠房 4 號整棟

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Toys	Flammability tests	ASTM F963-23 Section 4.2 16 CFR Part 1500.44 16 CFR Part 1610 (Including amendments 88 FR 73230, 88 FR 73231 and 88 FR 73233) EN 71-2: 2020 BS EN 71-2: 2020 **<*Excluding the following*>** for the above two standards Tests for flammable gases, extremely flammable liquids, highly flammable liquids, flammable liquids and flammable gels AS/NZS ISO 8124.2: 2023 **<*Excluding the following*>** Tests for flammable gases, extremely flammable liquids, highly flammable liquids, flammable liquids and flammable gels ISO 8124-2: 2023 **<*Excluding the following*>** Tests for flammable gases, extremely flammable liquids, highly flammable liquids, flammable liquids and flammable gels
Toys	Flammability tests	GB 6675.3-2014 **<*Excluding the following* >** Tests for flammable gas, highly flammable liquid, flammable liquid, flammable gel and highly flammable solid
	燃燒性能測試	GB 6675.3-2014 **<*不包含*>** 易燃氣體、高度易燃液體、易燃液體、易燃凝膠體、高度易燃固體測試

SGS - CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
通標標準技術服務有限公司深圳分公司
SGS Bldg, No. 4, Jianghao Industrial Park, No. 430 Jihua Road, Bantian, Longgang District, Shenzhen, China
中國深圳市龍崗區坂田街道吉華路 430 號江灝(坂田)工業廠區廠房 4 號整棟

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Physical and mechanical tests :- 機械及物理性能測試	
Toys	- Safety requirements and test methods	AS/NZS ISO 8124.1: 2023 ***<Excluding the following >*** Cl. 4.8.2 and 4.23 (speed greater than 8 km/h)
Toys	- Safety requirements and test methods	ISO 8124-1: 2022 ***<Excluding the following>*** Cl. 4.8.2 and 4.23 (speed greater than 8 km/h)
Toys	- Safety requirements and test methods	EN 71-1: 2014 + A1: 2018 BS EN 71-1: 2014 + A1: 2018 ***<Excluding the following>*** for the above two standards Cl. 4.18 (test to EN 15649-3) and 4.20.2.5
Toys	- Safety requirements and test methods	GB 6675.1: 2014 Cl. 5.1.1 to 5.1.11, 5.7 and GB 6675.2: 2014 + Amendment No. 1
玩具	安全規定及測試方法	GB 6675.1: 2014 Cl. 5.1.1 to 5.1.11, 5.7 及 GB 6675.2: 2014 + 第一號修改單

SGS - CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
通標標準技術服務有限公司深圳分公司
SGS Bldg, No. 4, Jianghao Industrial Park, No. 430 Jihua Road, Bantian, Longgang District, Shenzhen, China
中國深圳市龍崗區坂田街道吉華路 430 號江灝(坂田)工業廠區廠房 4 號整棟

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Physical and mechanical tests:- (cont'd)	
Toys	Safety requirements :-	ASTM F963-23 Section 4.1, 4.3.7, 4.5 to 4.24, 4.26 to 4.28, 4.30 to 4.36, 4.38 to 4.41 ***<Excluding the following>*** Section 4.1 (reprocessed materials test to 4.3.1), 4.8.1 4.20.1
	Labeling requirements	Section 5
	Instructional literature	Section 6
	Producer's markings	Section 7
	Test methods	Section 8
Toys	- Safety requirements and test methods	16 CFR Part 1250 in conjunction with ASTM F963-23
Toys and other articles intended for use by children	- Safety test	Federal Hazardous Substances Act Regulations 16 CFR 1500.48 16 CFR 1500.49 16 CFR 1500.50 16 CFR 1500.51 16 CFR 1500.52 16 CFR 1500.53 16 CFR 1501 16 CFR 1510 16 CFR 1511
Marbles, small balls, balloons and other small parts intended for use by children above 3 years of age	- Determination of misbranded toys	16 CFR 1500.19
Children's products containing button batteries or coin cell batteries	- Safety requirements and test methods	16 CFR Part 1263 in conjunction with ANSI/UL 4200A-2023 ANSI/UL 4200A-2023

Hong Kong Productivity Council – Electromagnetic Compatibility Centre
香港生產力促進局 – 電磁兼容科技中心

ADDRESS : LG1/F., HKPC Building, 78 Tat Chee Avenue, Kowloon, Hong Kong
地址 香港九龍達之路78號生產力大樓LG1/F

ENQUIRY : Mr Herman CHOW Ho-man, Senior Engineering Manager
查詢 周浩文先生，高級工程經理

TELEPHONE : 2788 6396
電話

FAX : 2788 5405
傳真

E-MAIL : emc@hkpc.org
電郵

WEBSITE ADDRESS : http://www.hkpc.org/
網址

CLIENTELE : Public
服務對象 公眾

Hong Kong Productivity Council – Electromagnetic Compatibility Centre
香港生產力促進局 – 電磁兼容科技中心

ADDRESS **地址**	:	LG1/F., HKPC Building, 78 Tat Chee Avenue, Kowloon, Hong Kong 香港九龍達之路 78 號生產力大樓 LG1/F
ACCREDITED TEST CATEGORY **認可測試類別**	:	Electrical and Electronic Products 電氣及電子產品

Hong Kong Productivity Council – Electromagnetic Compatibility Centre
香港生產力促進局 – 電磁兼容科技中心
LG1/F., HKPC Building, 78 Tat Chee Avenue, Kowloon, Hong Kong
香港九龍達之路 78 號生產力大樓 LG1/F

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	EMC test :- Emission test	
Unintentional radiator	- Measurement of radiated emission 9 kHz to 40 GHz - Measurement of conducted emission 150 kHz to 30 MHz	47 CFR Part 15 Subpart A and Subpart B using the methods specified in ANSI C63.4a-2017
Intentional radiator	- Measurement of radiated emission 9 kHz to 40 GHz - Measurement of conducted emission 150 kHz to 30 MHz	47 CFR Part 15 Subpart A and Subpart C using test-method specified in ANSI C63.10-2013
Information technology equipment	- Measurement of radiated emission 9 kHz to 40 GHz - Measurement of conducted emission 150 kHz to 30 MHz	ICES-003 Issue 7, October 2020 using the methods specified in ANSI C63.4a-2017

Hong Kong Productivity Council – Electromagnetic Compatibility Centre
香港生產力促進局 – 電磁兼容科技中心
LG1/F., HKPC Building, 78 Tat Chee Avenue, Kowloon, Hong Kong
香港九龍達之路 78 號生產力大樓 LG1/F

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	EMC test :- Emission test	
Licence-exempt radio apparatus: category I equipment	- Measurement of radiated emission - 9 kHz to 40 GHz - Measurement of conducted emission - 150 kHz to 30 MHz - Measurement of conducted emission at antenna terminal - 9 kHz to 40 GHz	RSS-210 Issue 10, December 2019 + Amendment (April 2020) in conjunction with RSS-Gen Issue 5, April 2018 (Amendment 1, March 2019) using test methods specified in ANSI C63.10: 2013
Licence-exempt radio apparatus: category II equipment	- Measurement of radiated emission - 9 kHz to 40 GHz - Measurement of conducted emission - 150 kHz to 30 MHz - Measurement of conducted emission at antenna terminal - 9 kHz to 40 GHz	RSS-310 Issue 5, January 2020 + Amendment (April 2020) in conjunction with RSS-Gen Issue 5, April 2018 (Amendment 1, March 2019) using test methods specified in ANSI C63.10: 2013
Digital transmission system, frequency hopping system and licence-exempt local area network device without dynamic frequency selection	- Measurement of radiated emission - 9 kHz to 40 GHz - Measurement of conducted emission - 150 kHz to 30 MHz - Measurement of conducted emission at antenna terminal - 9 kHz to 40 GHz	RSS-247 Issue 2, February 2017 in conjunction with RSS-Gen Issue 5, April 2018 + Amendment 1 (March 2019) using test methods specified in ANSI C63.10: 2013

Hong Kong Productivity Council – Electromagnetic Compatibility Centre
香港生產力促進局 – 電磁兼容科技中心
LG1/F., HKPC Building, 78 Tat Chee Avenue, Kowloon, Hong Kong
香港九龍達之路 78 號生產力大樓 LG1/F

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	EMC test :- Emission test	
Electric and electronic toy	- Measurement of disturbance voltage 150 kHz to 30 MHz - Measurement of disturbance power 30 MHz to 300 MHz - Measurement of radiated disturbance 30 MHz to 6 GHz	CISPR 14-1: 2020 EN IEC 55014-1: 2021 <***Excluding the following***> for the above two standards Cl. 4.4, 5.4.2
Household appliance, electric tool and similar apparatus	- Measurement of disturbance voltage 150 kHz to 30 MHz - Measurement of disturbance power 30 MHz to 300 MHz - Measurement of radiated disturbance 30 MHz to 6 GHz	CISPR 14-1: 2020 EN IEC 55014-1: 2021 <***Excluding the following***> for the above two standards Cl. 4.3.2, 4.4, 5.4.2, A.1.10, A.1.11, A.1.20, A.8.3
Industrial, scientific and medical (ISM) equipment < ***Excluding the following*** > - three phase equipment - electric wedding equipment - ISM RF lighting equipment - medium voltage and high voltage switchgear - grid connected power converters	- Measurement of terminal disturbance voltages - 9 kHz to 30 MHz - Measurement of radiated disturbance - 9 kHz to 18 GHz	CISPR 11: 2009 + A1: 2010 EN 55011: 2009 + A1: 2010 <***Excluding the following***> for the above two standards Cl. 6.4, 7.6.8 and 10; Table 10
Information technology equipment	- Measurement of terminal disturbance voltage 150 kHz to 30 MHz - Measurement of radiated disturbance 30 MHz to 6 GHz	CISPR 22: 2008 EN 55022: 2010 <***Excluding the following***> for the above two standards Cl. 9.6
Lighting equipment and luminaire	- Measurement of conducted disturbance 9 kHz to 30 MHz - Measurement of radiated disturbance 9 kHz to 1 GHz	CISPR 15: 2018 EN IEC 55015: 2019 <***Excluding the following***> for the above two standards Cl. 9.3.4.2, 9.3.4.3, 9.3.4.4

Hong Kong Productivity Council – Electromagnetic Compatibility Centre
香港生產力促進局 – 電磁兼容科技中心
LG1/F., HKPC Building, 78 Tat Chee Avenue, Kowloon, Hong Kong
香港九龍達之路 78 號生產力大樓 LG1/F

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	EMC test :- Emission test	
Multimedia equipment	- Measurement of radiated emission 30 MHz to 6 GHz - Measurement of conducted emission 150 kHz to 30 MHz	CISPR 32: 2015 + A1: 2019 EN 55032: 2015 + A1: 2020 ***<Excluding the following>*** for the above two standards Tables A.7, A.11, A.12, A.13
Electrical and electronic equipment having an input current up to 16A and connected to a single-phase supply system of 220V, 230V or 240V at 50 Hz or 60 Hz	- Measurement of harmonic current	IEC 61000-3-2: 2018 + A1: 2020 EN IEC 61000-3-2: 2019 + A1: 2021 ***< Excluding the following >*** for the above two standards Cl. 4 (professional equipment), B.2, B.3, B.8, B.12, B.14, B.15
Electrical and electronic equipment having an input current up to 16A and connected to a single-phase supply system of 220 to 250V at 50 Hz	- Measurement of voltage change, voltage fluctuation and flicker - Short-term flicker severity, Pst - Long-term flicker severity, Plt - Maximum steady state voltage change, dc - Maximum absolute voltage change, dmax - Maximum time duration that the voltage deviation exceeds the limit for dc, Tmax	IEC 61000-3-3: 2013 + A1: 2017 + A2: 2021 EN 61000-3-3: 2013 + A2: 2021 ***< Excluding the following >*** for the above two standards Cl. 4.2.3, 4.2.4, A.3, A.4, A.12, A.13, A.14, A.15
Electrical and electronic apparatus intended for use in residential environment for which no relevant dedicated product or product-family EMC emission standard exists or product-family emission standard exists	- Measurement of terminal disturbance voltage 150 kHz to 30 MHz - Measurement of radiated disturbance 30 MHz to 6 GHz	EN 61000-6-3:2007+A1:2011 IEC 61000-6-3:2006+A1:2010
	- Measurement of terminal disturbance voltage 150 kHz to 30 MHz - Measurement of radiated disturbance 30 MHz to 6 GHz	EN IEC 61000-6-3: 2021 IEC 61000-6-3: 2020

Hong Kong Productivity Council – Electromagnetic Compatibility Centre
香港生產力促進局 – 電磁兼容科技中心
LG1/F., HKPC Building, 78 Tat Chee Avenue, Kowloon, Hong Kong
香港九龍達之路 78 號生產力大樓 LG1/F

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	EMC test :- Immunity test	
Multimedia equipment	- Radio frequency electromagnetic field - Electrostatic discharge - Fast transient - Radio frequency common mode - Surge	CISPR 35: 2016 EN 55035: 2017 < ***Excluding the following*** > for the above two standards Annexes A, E, F, G, H
Electrical and electronic apparatus intended for use in residential, commercial and light-industrial environments for which no relevant dedicated product or product-family EMC immunity standard exists	- Radio frequency electromagnetic field - Electrostatic discharge - Fast transient - Radio frequency common mode - Surge	EN 61000-6-1: 2007 IEC 61000-6-1: 2005
	- Radio frequency electromagnetic field - Electrostatic discharge - Radio frequency common mode - Voltage dip - Voltage interruption - Surge - Fast transient	IEC 61000-6-1: 2016 EN IEC 61000-6-1: 2019 < ***Excluding the following*** > for the above two standards Item 1.1 of Table 1

Hong Kong Productivity Council – Electromagnetic Compatibility Centre
香港生產力促進局 – 電磁兼容科技中心
LG1/F., HKPC Building, 78 Tat Chee Avenue, Kowloon, Hong Kong
香港九龍達之路 78 號生產力大樓 LG1/F

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Electrical and electronic equipment	EMC test :- Immunity test	
	- Electrostatic discharge immunity test 15 kV air discharge 8 kV contact discharge	EN 61000-4-2: 2009 IEC 61000-4-2: 2008
	- Radiated, radio frequency electromagnetic field 80 MHz to 1 GHz 10 V/m 1 GHz to 6 GHz 3 V/m	EN 61000-4-3: 2006 + A2: 2010 IEC 61000-4-3: 2006 + A1: 2007 + A2: 2010
	- Radiated, radio frequency electromagnetic field 80 MHz to 2.7 GHz 10 V/m 2.7 GHz to 6 GHz 3 V/m	IEC 61000-4-3: 2020 EN IEC 61000-4-3: 2020
	- Electrical fast transient/burst 4 kV (max.) 5/50ns, 5kHz	EN 61000-4-4: 2012 IEC 61000-4-4: 2012
	- Surge up to 4 kV	IEC 61000-4-5: 2014 + A1: 2017 EN 61000-4-5: 2014 + A1: 2017 **< *Excluding the following* >** for the above two standards Cl. 6.3.3.3
	- Conducted disturbance induced by radio frequency fields 150 kHz to 80 MHz, 3V	EN 61000-4-6: 2014 IEC 61000-4-6: 2013
	- Voltage dip - Short interruption - Voltage variation	IEC 61000-4-11: 2020 EN IEC 61000-4-11: 2020

Wellab Limited
匯力(顧問及檢測)有限公司

ADDRESS 地址	:	Room 1714, Technology Park, 18 On Lai Street, Shatin, New Territories, Hong Kong 香港新界沙田安麗街 18 號達利廣場 1714 室
ENQUIRY 查詢	:	Mr TSE Siu Kei, General Manager 謝紹基先生，總經理
TELEPHONE 電話	:	2898 7388
FAX 傳真	:	2898 7076
E-MAIL 電郵	:	patrick.tse@wellab.com.hk
CLIENTELE 服務對象	:	Public 公眾

Wellab Limited
匯力(顧問及檢測)有限公司

ADDRESS **地址**	:	Room 1714, Technology Park, 18 On Lai Street, Shatin, N.T., HK 香港新界沙田安麗街 18 號達利廣場 1714 室
ACCREDITED TEST CATEGORY **認可測試類別**	:	Environmental Testing 環境測試 Food 食品

Wellab Limited
匯力(顧問及檢測)有限公司
Room 1714, Technology Park, 18 On Lai Street, Shatin, N.T., HK
香港新界沙田安麗街 18 號達利廣場 1714 室

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Saline water	Physical Examination:-	
	- Total suspended solids dried at 103℃ -105℃	In-house method SOP 032 (Gravimetric) APHA 17e 2540 D
	- Chlorophyll a	In-house method SOP 010 (Fluorometer)
	Non-Metallic Constituents:-	
	- Nitrogen (Ammonia)	In-house method SOP 157 (FIA)
	- Nitrogen (Nitrite)	In-house method SOP017 (FIA)
	- Nitrogen (Total Oxidised)	In-house method SOP 158 (FIA)
	- Nitrogen (Total Inorganic)	In-house method SOP 163 (By calculation)
	- Nitrogen (Total Kjeldahl)	In-house method SOP015 (FIA)
	- Phosphorus – (Reactive)	In-house method SOP 013 (FIA)
	- Phosphorus – (Total)	In-house method SOP 014 (FIA)
	- Silicate	In-house method SOP144 (FIA)
	Trace Metals (Recoverable):-	
	- Arsenic, Cadmium, Chromium, Copper, Lead, Mercury, Nickel, Silver, Zinc	In-house method SOP 039 (ICP-MS)

Wellab Limited
匯力(顧問及檢測)有限公司
Room 1714, Technology Park, 18 On Lai Street, Shatin, N.T., HK
香港新界沙田安麗街 18 號達利廣場 1714 室

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Saline water (cont'd)	Organic Pollutants:-	
	- Polycyclic aromatic hydrocarbons: Naphthalene, Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Anthracene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene	In-house method SOP 087 (GC/MSD)
	- Polychlorinated Biphenyls: 2,4'-Dichlorobiphenyl (PCB #8) 2,2',5-Trichlorobiphenyl (PCB #18) 2,4,4'-Trichlorobiphenyl (PCB #28) 2,2',3,5'-Tetrachlorobiphenyl (PCB #44) 2,2',5,5'-Tetrachlorobiphenyl (PCB #52) 2,3',4,4'-Tetrachlorobiphenyl (PCB #66) 3,3',4,4'-Tetrachlorobiphenyl (PCB #77) 3,4,4',5-Tetrachlorobiphenyl (PCB #81) 2,2',4,5,5'-Pentachlorobiphenyl (PCB #101) 2,3,3',4,4'-Pentachlorobiphenyl (PCB #105) 2,3,4,4',5-Pentachlorobiphenyl (PCB #114) 2,3',4,4',5-Pentachlorobiphenyl (PCB #118) 2',3,4,4',5-Pentachlorobiphenyl (PCB #123) 3,3',4,4',5-Pentachlorobiphenyl (PCB #126) 2,2',3,3',4,4'-Hexachlorobiphenyl (PCB#128) 2,2',3,4,4',5'-Hexachlorobiphenyl (PCB #138) 2,2',4,4',5,5'-Hexachlorobiphenyl (PCB #153) 2,3,3',4,4',5-Hexachlorobiphenyl (PCB #156) 2,3,3',4,4',5'-Hexachlorobiphenyl (PCB #157) 2,3',4,4',5,5'-Hexachlorobiphenyl (PCB #167) 3,3',4,4',5,5'-Hexachlorobiphenyl (PCB #169) 2,2',3,3',4,4',5-Heptachlorobiphenyl (PCB #170) 2,2',3,4,4',5,5'-Heptachlorobiphenyl (PCB #180) 2,2',3,4',5,5',6-Heptachlorobiphenyl (PCB #187) 2,3,3',4,4',5,5'-Heptachlorobiphenyl (PCB #189)	In-house method SOP 086 (GC/MSD)

Wellab Limited
匯力(顧問及檢測)有限公司
Room 1714, Technology Park, 18 On Lai Street, Shatin, N.T., HK
香港新界沙田安麗街 18 號達利廣場 1714 室

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Saline water (cont'd)	Organic Pollutants (cont'd):-	
	- Organochlorine Pesticides: Aldrin, Dieldrin, Endrin, cis-Chlordane, trans-Chlordane, Heptachlor, Heptachlor epoxide, Oxychlordane, Hexachlorocyclohexane, isomers (alpha, beta and delta-BHC), Lindane, Hexachlorobenzene, Pentachloroaniline, Methyl pentachlorophenyl sulphide, Quintozene (pentachloronitrobenzene), Endosulfan I, Endosulfan II, Endosulfan sulfate, 2,4'-DDT, 4,4'-DDT, 2,4'-DDE, 4,4'-DDE, 2,4'-DDD, 4,4'-DDD,	In-house method SOP169 (GC/MSD)
	- Tributyl tin	In-house method SOP 066 (GC/FPD)
	- Semivolatile Organic Compounds : Bis(2-Ethylhexyl)phthalate Bis(2-chloroethoxy)methane Hexachlorobenzene Hexachloroethane Hexachlorocyclopentadiene	In-house method SOP 087 (GC/MSD)
	- Volatile Organic Compounds (VOCs) : Acetone, Benzene, 1,1-dichloroethene, Dichloromethane, Methyl Tert-Butyl Ether (MTBE), trans-1,2-dichloroethene, 1,1-dichloroethane, 1,2-dichloroethane, 2-butanone, 2,2-dichloropropane, cis-1,2-dichloroethene, 1,1,1-trichloroethane, Carbon Tetrachloride, 1,2-dichloropropane, Naphthalene, Toluene, Dibromomethane, Bromodichloromethane, cis-1,3-dichloropropylene, trans-1,3-dichloropropylene, Trichloroethylene, 1,1-dichloropropene, Chloroform, Styrene, 1,1,2-trichloroethane, Tetrachloroethene, 1,3-dichloropropane, Dibromochloromethane, 1,2-dibromoethane, Chlorobenzene, Ethylbenzene, 1,1,1,2-tetrachloroethane, m-xylene & p-xylene, o-xylene, Bromoform, Isopropylbenzene, 1,1,2,2-tetrachloroethane, 1,2,3-trichloropropane, 2-chlorotoluene, 4-chlorotoluene, tert-butylbenzene, 1,2,4-trimethylbenzene, sec-butylbenzene, 1,3,5-trimethylbenzene, n-propylbenzene, Bromobenzene, p-isopropyltoluene, 1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, n-butylbenzene 1,2-dibromo-3-chloropropane, 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, Hexachlorobutadiene	In-house method SOP 083 (Purge and Trap GC/MSD)

Wellab Limited
匯力(顧問及檢測)有限公司
Room 1714, Technology Park, 18 On Lai Street, Shatin, N.T., HK
香港新界沙田安麗街 18 號達利廣場 1714 室

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Water and Wastewater	Physical Examination:-	
	- Alkalinity - Total	APHA 19e 2320 B
	- Alkalinity - Phenolphthalein	APHA 19e 2320 B
	- Chlorophyll a	In-house method SOP 009 (Fluorometer)
	- Colour	APHA 19e 2120 A & B
	- Conductivity	In-house method SOP 052 (Electrode)
	- Hardness - Total	APHA 19e 2340 B
	- Turbidity	APHA 19e 2130 B
	- pH value	APHA 19e 4500 – H^+B
	- Total Solids dried at 103-105℃	APHA 17e 2540 B
	- Total Dissolved Solids dried at 180℃	APHA 17e 2540 C
	- Total Suspended Solids at 103-105℃	APHA 17e 2540 D
	- Salinity	APHA 20e 2520 B
	- Settleable Solids	APHA 22e 2540 F

Wellab Limited
匯力(顧問及檢測)有限公司
Room 1714, Technology Park, 18 On Lai Street, Shatin, N.T., HK
香港新界沙田安麗街 18 號達利廣場 1714 室

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Water and Wastewater (cont'd)	Non-Metallic Constituents:-	
	- Chloride	APHA 19e 4500 – Cl^- B
	- Chlorine (total residual)	In-house method SOP105 (Colorimetric)
	- Chlorine (free residual)	In-house method SOP016 (Colorimetric)
	- Sulphate	APHA 19e 4500 – SO_4^{2-} E
	- Phosphorus (Total)	In-house method SOP 055 (FIA)
	- Phosphorus (Reactive)	In house method SOP 054 (FIA) In house method SOP 011 (FIA)
	- Nitrogen (Nitrite)	In-house method SOP 068 (FIA)
	- Nitrogen (Nitrate)	In-house method SOP 067 (FIA)
	- Nitrogen (Ammonia)	In-house method SOP 057 (FIA)
	- Nitrogen (Total Kjeldahl)	In-house method SOP 058 (FIA)
	- Nitrogen (Total Oxidised)	In-house method SOP 056 (FIA)
	- Nitrogen (Organic)	In-house method SOP 062 (By calculation)
	- Nitrogen (Total Kjeldahl + nitrate + nitrite)	In-house method SOP 063 (By calculation)
	- Nitrogen (Total Inorganic)	In-house method SOP 061 (By calculation)
	- Oxygen (Dissolved)	APHA 20e 4500-O C
	- Cyanide (Total)	In-house method SOP 075 (FIA)
	- Cyanide (Free)	In-house method SOP 119 (FIA)
	- Silicate	In-house method SOP143 (FIA)
	- Sulphide	In-house method SOP028 (Spectrophotometer)

Wellab Limited
匯力(顧問及檢測)有限公司
Room 1714, Technology Park, 18 On Lai Street, Shatin, N.T., HK
香港新界沙田安麗街 18 號達利廣場 1714 室

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Water and Wastewater (cont'd)	Organic Pollutants:-	
	- Oxygen Demand (Biochemical)	APHA 19e 5210 B
	- Oxygen Demand (Chemical)	APHA 19e 5220 B In-house method SOP 085 (Open reflux, titrimetric)
	- Organic Carbon (Total)	In-house method SOP 020 (Wet Oxidation)
	- Oil and Grease	In-house method SOP 024 (Gravimetric)
	- Anionic surfactants (as MBAS)	APHA 22e 5540 A & C (without sublation)
	- Nonionic surfactants (as CTAS)	APHA 22e 5540 B & D
	- Total surfactants (anionic and nonionic)	In-house method SOP 048 (By calculation)
	- Polycyclic Aromatic Hydrocarbons: Naphthalene, Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Anthracene, Fluoranthene, Pyrene, Chrysene, Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene	In-house method SOP 091 (GC/MSD)
	- Organochlorine Pesticides: Aldrin, Dieldrin, Endrin, cis-Chlordane, trans-Chlordane, Heptachlor, Heptachlor epoxide, Oxychlordane, Hexachlorocyclohexane, isomers (alpha, beta and delta-BHC), Lindane, Hexachlorobenzene, Pentachloroaniline, Methyl pentachlorophenyl sulphide, Quintozene (pentachloronitrobenzene), Endosulfan I, Endosulfan II, Endosulfan sulfate, 2,4'-DDT, 4,4'-DDT, 2,4'-DDE, 4,4'-DDE, 2,4'-DDD, 4,4'-DDD	In-house method SOP 113 (GC/MSD)

Wellab Limited
匯力(顧問及檢測)有限公司
Room 1714, Technology Park, 18 On Lai Street, Shatin, N.T., HK
香港新界沙田安麗街 18 號達利廣場 1714 室

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Water and Wastewater (cont'd)	Organic Pollutants:- (cont'd)	
	- Polychlorinated Biphenyls: 2,4'-Dichlorobiphenyl (PCB #8) 2,2',5-Trichlorobiphenyl (PCB #18) 2,4,4'-Trichlorobiphenyl (PCB #28) 2,2',3,5'-Tetrachlorobiphenyl (PCB #44) 2,2',5,5'-Tetrachlorobiphenyl (PCB #52) 2,3',4,4'-Tetrachlorobiphenyl (PCB #66) 3,3',4,4'-Tetrachlorobiphenyl (PCB #77) 3,4,4',5-Tetrachlorobiphenyl (PCB #81) 2,2',4,5,5'-Pentachlorobiphenyl (PCB #101) 2,3,3',4,4'-Pentachlorobiphenyl (PCB #105) 2,3,4,4',5-Pentachlorobiphenyl (PCB #114) 2,3',4,4',5-Pentachlorobiphenyl (PCB #118) 2',3,4,4',5-Pentachlorobiphenyl (PCB #123) 3,3',4,4',5-Pentachlorobiphenyl (PCB #126) 2,2',3,3',4,4'-Hexachlorobiphenyl (PCB#128) 2,2',3,4,4',5'-Hexachlorobiphenyl (PCB #138) 2,2',4,4',5,5'-Hexachlorobiphenyl (PCB #153) 2,3,3',4,4',5-Hexachlorobiphenyl (PCB #156) 2,3,3',4,4',5'-Hexachlorobiphenyl (PCB #157) 2,3',4,4',5,5'-Hexachlorobiphenyl (PCB #167) 3,3',4,4',5,5'-Hexachlorobiphenyl (PCB #169) 2,2',3,3',4,4',5-Heptachlorobiphenyl (PCB #170) 2,2',3,4,4',5,5'-Heptachlorobiphenyl (PCB #180) 2,2',3,4',5,5',6-Heptachlorobiphenyl (PCB #187) 2,3,3',4,4',5,5'-Heptachlorobiphenyl (PCB #189)	In-house method SOP 089 (GC/MSD)
	- Total Petroleum Hydrocarbons: C6-C8, C6-C9	In-house method SOP 139 (Purge and Trap GC/MSD)
	C9-C16, C10-C14, C15-C28, C17-C35, C29-C36	In-house method SOP 141 (GC/FID/MSD)

Wellab Limited
匯力(顧問及檢測)有限公司
Room 1714, Technology Park, 18 On Lai Street, Shatin, N.T., HK
香港新界沙田安麗街 18 號達利廣場 1714 室

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Water and Wastewater (cont'd)	Organic Pollutants:- (cont'd)	
	- Tributyl tin	In-house method SOP 125 (GC/FPD)
	- Tributyl tin in interstitial water	In-house method SOP 065 (GC/FPD)
	- Phenols: Phenol, 2-Chlorophenol, 2,4-Dichlorophenol, 4-Chloro-3-methylphenol, 2,4,6-Trichlorophenol	In-house method SOP 115 (GC/MSD)
	- Phenols (Total)	In-house method SOP 077 (Colorimetric)
	- Semivolatile Organic Compounds : Bis(2-Ethylhexyl)phthalate, Bis(2-chloroethoxy)methane, Hexachlorobenzene, Hexachloroethane, Hexachlorocyclopentadiene	In-house method SOP 091 (GC/MSD)
	- Volatile Organic Compounds (VOCs) : Acetone, 1,1-dichloroethene, 1,1-dichloroethane, Dichloromethane, Methyl Tert-Butyl Ether, trans-1,2-dichloroethene, 2-butanone, 2,2-dichloropropane, cis-1,2-dichloroethene, Chloroform, 1,1,1-trichloroethane, 1,1-dichloropropene, Carbon Tetrachloride, Benzene, 1,2-dichloroethane, Trichloroethylene, 1,2-dichloropropane, Dibromomethane, Bromodichloromethane, cis-1,3-dichloropropylene, Toluene, trans-1,3-dichloropropylene, 1,1,2-trichloroethane, Tetrachloroethene, 1,3-dichloropropane, Dibromochloromethane, 1,2-dibromoethane, Chlorobenzene, Ethylbenzene, 1,1,1,2-tetrachloroethane, m-xylene & p-xylene, o-xylene, Styrene, Bromoform, Isopropylbenzene, 1,1,2,2-tetrachloroethane, Bromobenzene, 1,2,3-trichloropropane, n-propylbenzene, 2-chlorotoluene, 1,3,5-trimethylbenzene, 4-chlorotoluene, tert-butylbenzene, 1,2,4-trimethylbenzene, sec-butylbenzene, p-isopropyltoluene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, n-butylbenzene, 1,2-dichlorobenzene, 1,2-dibromo-3-chloropropane, 1,2,4-trichlorobenzene, Hexachlorobutadiene, Naphthalene, 1,2,3-trichlorobenzene	In-house method SOP 116 (Purge and Trap GC/MSD)

Wellab Limited
匯力(顧問及檢測)有限公司
Room 1714, Technology Park, 18 On Lai Street, Shatin, N.T., HK
香港新界沙田安麗街 18 號達利廣場 1714 室

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Water and Wastewater (cont'd)	Metals (Recoverable):- - Arsenic, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Nickel, Potassium, Selenium, Sodium, Silver, Zinc	APHA 19e 3030F 3b APHA 19e 3120B
	- Arsenic, Boron, Barium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Nickel, Potassium, Selenium, Sodium, Silver, Tin, Vanadium, Zinc	In-house method SOP 022 (ICP-AES)
	- Aluminium, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc	In-house method SOP 076 (ICP-MS)
	Trace Metals:-	
	- Hexavalent chromium (Cr VI)	In-house method SOP 114 (Colorimetric)
	- Trivalent chromium (Cr III)	In-house method SOP 129 (By calculation)
Water	Metal (Recoverable):- - Uranium	In-house method SOP 076 (ICP-MS)

Wellab Limited
匯力(顧問及檢測)有限公司
Room 1714, Technology Park, 18 On Lai Street, Shatin, N.T., HK
香港新界沙田安麗街 18 號達利廣場 1714 室

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Water and Wastewater	Microbial Indicators:-	
	- Total coliform count	In-house Method SOP 069 (Membrane Filtration Method by CHROMagar) DOE (1983) The Bacteriological Examination of Drinking Water Supplies, 1982 Membrane Filtration Procedure: Section 7.8 and 7.9.4.1; Bacterial confirmation 7.9.4.3
	- *E. coli* count	In-house Method SOP 069 (Membrane Filtration Method by CHROMagar) Environmental Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3, Environmental Protection Department, HK DOE (1983) The Bacteriological Examination of Drinking Water Supplies, 1982 Membrane Filtration Procedure: Section 7.8 and 7.9.4.2; Bacterial confirmation 7.9.4.4 and in situ urease test
	- Faecal coliform	In-house Method SOP 069 (Membrane filtration method by CHROMagar)
	- Heterotrophic plate count (at 35℃, for 48 hours)	APHA 20e 9215 B
	- Enumeration of *Enterococci*	United States Environmental Protection Agency Method 1600: Enterococci in water by membrane filtration using membrane Enterococcus Indoxyl-β-D-Glucoside Agar (mEI)

Wellab Limited
匯力(顧問及檢測)有限公司
Room 1714, Technology Park, 18 On Lai Street, Shatin, N.T., HK
香港新界沙田安麗街 18 號達利廣場 1714 室

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Sediment and Soil	Organic Pollutants:-	
	- Polycyclic Aromatic Hydrocarbons: Naphthalene, Acenaphthene, Acenaphthylene, Anthracene, Fluorene, Fluoranthene, Phenanthrene, Pyrene, Chrysene, Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene	In-house method SOP 090 (GC/MSD)
	- Polychlorinated Biphenyls: 2,4'-Dichlorobiphenyl (PCB#8) 2,2',5-Trichlorobiphenyl (PCB#18) 2,4,4'-Trichlorobiphenyl (PCB#28) 2,2',3,5'-Tetrachlorobiphenyl (PCB#44) 2,2',5,5'-Tetrachlorobiphenyl (PCB#52) 2,3',4,4'-Tetrachlorobiphenyl (PCB#66) 3,3',4,4'-Tetrachlorobiphenyl (PCB#77) 3,4,4',5-Tetrachlorobiphenyl (PCB#81) 2,2',4,5,5'-Pentachlorobiphenyl (PCB#101) 2,3,3',4,4'-Pentachlorobiphenyl (PCB#105) 2,3,4,4',5-Pentachlorobiphenyl (PCB#114) 2,3',4,4',5-Pentachlorobiphenyl (PCB#118) 2',3,4,4',5-Pentachlorobiphenyl (PCB#123) 3,3',4,4',5-Pentachlorobiphenyl (PCB#126) 2,2',3,3',4,4'-Hexachlorobiphenyl (PCB#128) 2,2',3,4,4',5'-Hexachlorobiphenyl (PCB#138) 2,2',4,4',5,5'-Hexachlorobiphenyl (PCB#153) 2,3,3',4,4',5-Hexachlorobiphenyl (PCB#156) 2,3,3',4,4',5'-Hexachlorobiphenyl (PCB#157) 2,3'4,4',5,5'-Hexachlorobiphenyl (PCB#167) 3,3',4,4',5,5'-Hexachlorobiphenyl (PCB#169) 2,2',3,3',4,4',5-Heptachlorobiphenyl (PCB#170) 2,2',3,4,4',5,5'-Heptachlorobiphenyl (PCB#180) 2,2',3,4',5,5',6-Heptachlorobiphenyl (PCB#187) 2,3,3',4,4',5,5'-Heptachlorobiphenyl (PCB#189)	In-house method SOP 088 (GC/MSD)
	- Tributyl tin	In-house Method SOP 155 (GC/FPD)
	- Tributyl tin oxide	In-house Method SOP 164 (By calculation)
	- Total Organic Carbon	In-house method SOP 154 (NDIR)

Wellab Limited
匯力(顧問及檢測)有限公司
Room 1714, Technology Park, 18 On Lai Street, Shatin, N.T., HK
香港新界沙田安麗街 18 號達利廣場 1714 室

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Sediment and Soil (cont'd)	Organic Pollutants:- (cont'd)	
	- Volatile Organic Compounds (VOCs) : Chloroform, 1,1-dichloroethene, Acetone, Dichloromethane, Methyl Tert-Butyl Ether (MTBE), trans-1,2-dichloroethene, 1,1-dichloroethane, 2-butanone, 2,2-dichloropropane, cis-1,2-dichloroethene, 1,1,1-trichloroethane, 1,1-dichloropropene, Carbon Tetrachloride, Benzene, 1,2-dichloroethane, Trichloroethylene, 1,2-dichloropropane, Dibromomethane, Bromodichloromethane, cis-1,3-dichloropropylene, Toluene, trans-1,3-dichloropropylene, 1,1,2-trichloroethane, Tetrachloroethene 1,3-dichloropropane, Dibromochloromethane, 1,2-dibromoethane, Chlorobenzene, Ethylbenzene, 1,1,1,2-tetrachloroethane, m-xylene & p-xylene, o-xylene, Styrene, Bromoform, Isopropylbenzene, 1,1,2,2-tetrachloroethane, Bromobenzene, 1,2,3-trichloropropane, n-propylbenzene, 2-chlorotoluene, 1,3,5-trimethylbenzene, 4-chlorotoluene, tert-butylbenzene, 1,2,4-trimethylbenzene, sec-butylbenzene, p-isopropyltoluene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, n-butylbenzene, 1,2-dichlorobenzene, 1,2-dibromo-3-chloropropane, 1,2,4-trichlorobenzene, Hexachlorobutadiene, Naphthalene, 1,2,3-trichlorobenzene	In-house method SOP 121 (Purge and Trap GC/MSD)
	- Semivolatile Organic Compounds: Bis(2-Ethylhexyl)phthalate, Bis(2-chloroethoxy)methane, Hexachlorobenzene, Hexachloroethane, Hexachlorocyclopentadiene	In-house method SOP 090 (GC/MSD)
	- Phenols: Phenol, 2-Chlorophenol, 2,4-Dichlorophenol, 4-Chloro-3-methylphenol 2,4,6-Trichlorophenol	In-house method SOP 124 (GC/MSD)
	- Organochlorine Pesticides: Aldrin; Dieldrin; Endrin; Oxychlordane; cis-Chlordane, trans-Chlordane; Heptachlor; Heptachlor epoxide; Hexachlorocyclohexane isomers (alpha-, beta- and delta-BHC); Lindane; Hexachlorobenzene; Methyl pentachlorophenyl sulphide; Pentachloroaniline; Quintozene (pentachloronitrobenzene); Endosulfan I; Endosulfan II; Endosulfan sulfate; 2,4'-DDT; 4,4'-DDT; 4,4'-DDE; 4,4'-DDD; 2,4'-DDE; 2,4'-DDD	In-house method SOP 127 (GC/MSD)
	2,4'-DDT; 4,4'-DDT; 4,4'-DDE; 4,4'-DDD	In-house method SOP 177 (GC/MS/MS)

Wellab Limited
匯力(顧問及檢測)有限公司
Room 1714, Technology Park, 18 On Lai Street, Shatin, N.T., HK
香港新界沙田安麗街 18 號達利廣場 1714 室

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Sediment and Soil (cont'd)	Trace Metals:- - Hexavalent chromium (Cr VI)	 In-house method SOP 117 (Colorimetric)
	Trace Metals (Acid Leachable):- - Arsenic, Barium, Cadmium, Cobalt, Chromium, Copper, Molybdenum, Manganese, Lead, Nickel, Silver, Tin, Zinc	 In-house method SOP 053 (ICP-AES)
	Trace Metals (Acid Leachable):- - Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Mercury, Molybdenum, Nickel, Silver, Selenium, Thallium, Tin, Vanadium, Zinc	 In-house method SOP 093 (digestion) In-house method SOP 093 (ICP-MS)
	Non-Metallic Constituents:- - Cyanide (Total)	 In-house method SOP 078 (FIA)
	- Cyanide (Free)	In-house method SOP 079 (FIA)
	- Acid Volatile Sulfide	USEPA Method 821/R-91-100
Sediment	Toxicity Tests: -	
	10-D Amphipod Survival Tests - *Leptocheirus plumulosus*	USEPA 600/R-94/025 June 1994 Test Method 10.4
	20-D Polychaete Growth and Survival Test - *Neanthes arenaceodentata*	Recommended Guidelines for Conducting Laboratory Bioassays on Puget Sound Sediments, PSEP, July 1995
	48-60 Hour Bivalve Larvae Survival and Normality Test - *Crassostrea gigas*	Recommended Guidelines for Conducting Laboratory Bioassays on Puget Sound Sediments, PSEP, July 1995

Wellab Limited
匯力(顧問及檢測)有限公司
Room 1714, Technology Park, 18 On Lai Street, Shatin, N.T., HK
香港新界沙田安麗街 18 號達利廣場 1714 室

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Soil	Non-metallic Constituents:-	
	- Nitrogen (Ammonia)	In-house method SOP 130 (FIA)
	- Nitrogen (Total Kjeldahl)	In-house method SOP 134 (FIA)
	Trace Metals:-	
	- Trivalent chromium (Cr III)	In-house method SOP 129 (By calculation)
	TCLP Metals: - (Total Characteristics Leaching Procedure) - Extraction procedure	USEPA SW846 Method 1311 (SOP 037)
	- Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Copper, Lead, Mercury, Nickel, Selenium, Silver, Thallium, Tin, Vanadium, Zinc	In-house method SOP 038 (ICP-MS)
	Organic Pollutants:-	
	- Total Petroleum Hydrocarbons: C6-C8, C6-C9	In-house method SOP 140 (Purge and Trap GC/MSD)
	C9-C16, C10-C14, C15-C28, C17-C35, C29-C36	In-house method SOP 142 (GC/FID/MSD)
Solids and semi-solids	Total solids, Fixed solids & volatile solids (Total solids at 103℃ -105℃ & Fixed & volatile solids at 550℃)	APHA 19e 2540 G

Wellab Limited
匯力(顧問及檢測)有限公司
Room 1714, Technology Park, 18 On Lai Street, Shatin, N.T., HK
香港新界沙田安麗街 18 號達利廣場 1714 室

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Water	Microbiological Examination:-	
	- *E. coli* count	In-house Method SOP 069 (Membrane Filtration Method by CHROMagar)

Mattel Toys Technical Consultancy (SZ) Ltd. – Quality Lab
美泰玩具技術咨詢(深圳)有限公司 – 品質檢定實驗室

ADDRESS : 5-6/F, #6 Building Hang Sang Chong Industrial Center, No. 107, Fu Kang Road
地址 Heng Gang Town, Lang Gang District, Shenzhen City, Guang Dong Province, China
中國廣東省深圳市龍崗區橫崗鎮富康路 107 號
恒生昌工業中心六棟5-6樓

ENQUIRY : Ms Connie LI, Senior Laboratory Engineer
查詢 李小莉女士，實驗室高級工程師

TELEPHONE : 0755-28863811-3429
電話

FAX : 0755-28867091
傳真

E-MAIL : Connie.CL.Li@mattel.com
電郵

CLIENTELE : Conditionally available for public testing
服務對象 有限度公眾服務

Mattel Toys Technical Consultancy (SZ) Ltd. – Quality Lab
美泰玩具技術咨詢(深圳)有限公司 – 品質檢定實驗室

ADDRESS **地址**	:	5-6/F, #6 Building Hang Sang Chong Industrial Center, No. 107, Fu Kang Road Heng Gang Town, Lang Gang District, Shenzhen City, Guang Dong Province, China 中國廣東省深圳市龍崗區橫崗鎮富康路 107 號 恒生昌工業中心六棟 5-6 樓
ACCREDITED TEST CATEGORY **認可測試類別**	:	Toys and Children's Products 玩具及兒童產品

Mattel Toys Technical Consultancy (SZ) Ltd. – Quality Lab
美泰玩具技術咨詢(深圳)有限公司 – 品質檢定實驗室
5-6/F, #6 Building Hang Sang Chong Industrial Center, No. 107, Fu Kang Road, Heng Gang Town, Lang Gang District, Shenzhen City, Guang Dong Province, China
中國廣東省深圳市龍崗區橫崗鎮富康路 107 號恒生昌工業中心六棟 5-6 樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Chemical tests :-	
All toys - paints and similar surface coating materials	- Total lead content	ASTM F963-23 Cl. 4.3.5.1 (1) *Test procedures for compliance testing:* CPSC Test Method: CPSC-CH-E1003-09.1 Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings, February 25, 2011
	- Migration of the elements Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	ASTM F963-23 Cl. 4.3.5.1 (2) *Test procedures for compliance testing:* ASTM F963-23 Cl. 8.3.2 – 8.3.4
Toys – substrate materials (exclude siliceous materials)	- Total lead content	ASTM F963-23 Clause 4.3.5.2 (2) (a) *Test procedures for compliance testing:* CPSC Test Method: CPSC-CH-E1001-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Children's Metal Products (Including Children's Metal Jewelry), November 15, 2012 ***<excluding the following>*** XRF Spectrometry CPSC Test Method CPSC-CH-E1002-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in non-Metal Children's Products, November 15, 2012 ***<excluding the following>*** XRF Spectrometry
	- Migration of the elements Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	ASTM F963-23 Cl. 4.3.5.2(2) (b) & (c) *Test procedures for compliance testing:* ASTM F963-23 Cl. 8.3.5
Metallic toys or metallic toy components	- Extractable Cadmium	ASTM F963-23 Cl. 4.3.5.2(2) (d) *Test procedures for compliance testing:* ASTM F963-23 Cl. 8.3.5.5(3) and CPSC Test Method: CPSC-CH-E1004-11 Standard Operating Procedure for Determining Cadmium (Cd) Extractability from Children's Metal Jewelry February 03, 2011

Mattel Toys Technical Consultancy (SZ) Ltd. – Quality Lab
美泰玩具技術咨詢(深圳)有限公司 – 品質檢定實驗室
5-6/F, #6 Building Hang Sang Chong Industrial Center, No. 107, Fu Kang Road, Heng Gang Town, Lang Gang District, Shenzhen City, Guang Dong Province, China
中國廣東省深圳市龍崗區橫崗鎮富康路 107 號恒生昌工業中心六棟 5-6 樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Chemical tests (cont'd):-	
Toys (including pacifiers, rattles, and teethers) for children 12 years of age and younger	- Dibutyl phthalate (DBP) - Bis (2-ethylhexyl) phthalate (DEHP) - Butyl benzyl phthalate (BBP) - Diisobutyl phthalate (DIBP) - Di-isononyl phthalate (DINP) - Di-n-pentyl phthalate (DPENP) - Di-n-hexyl phthalate (DHEXP) - Dicyclohexyl phthalate (DCHP)	ASTM F963-23 Cl. 4.3.8 *Test procedures for compliance testing:* CPSC Test Method: CPSC-CH-C1001-09.4 Standard Operating Procedure for Determining of Phthalates, 17 January 2018 (extraction and analysis method**:** CPSC-CH-C1001-09.4)
Toys and other articles intended for use by children – paint and other similar surface-coating materials	- Total lead content	15 U.S. Code § 1278a US Public Law 110 -314 Consumer Product Safety Improvement Act 2008 US 16 CFR Part 1303 *Test procedures for compliance testing:* CPSC Test Method: CPSC-CH-E1003-09.1 Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings, February 25, 2011
Children's metal products	- Total lead content	15 U.S. Code § 1278a US Public Law 110 -314 Consumer Product Safety Improvement Act 2008 *Test procedures for compliance testing:* CPSC Test Method: CPSC-CH-E1001-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Children's Metal Products (Including, Children's Metal Jewelry, November 15, 2012 ***<excluding the following>*** XRF Spectrometry
Children's non-metal products (exclude siliceous materials)	- Total lead content	15 U.S. Code § 1278a US Public Law 110 -314 Consumer Product Safety Improvement Act 2008 *Test procedures for compliance testing:* CPSC Test Method: CPSC-CH-E1002-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Non-Metal Children's Products, November 15, 2012 ***<excluding the following>*** XRF Spectrometry

Mattel Toys Technical Consultancy (SZ) Ltd. – Quality Lab
美泰玩具技術咨詢(深圳)有限公司 – 品質檢定實驗室
5-6/F, #6 Building Hang Sang Chong Industrial Center, No. 107, Fu Kang Road, Heng Gang Town, Lang Gang District, Shenzhen City, Guang Dong Province, China
中國廣東省深圳市龍崗區橫崗鎮富康路 107 號恒生昌工業中心六棟 5-6 樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Chemical tests (cont'd):-	
Toys	- Migration of the elements Antimony, Arsenic, Chromium, Selenium, Cadmium, Mercury, Barium, Lead	AS/NZS ISO 8124-3:2021 (for dewaxing: Method A)
Toys	- Migration of the elements Antimony, Arsenic, Chromium, Selenium, Cadmium, Mercury, Barium, Lead, Boron	ISO8124-3:2020/Amd. 1: 2023 (for dewaxing: Method A)
Toys 玩具	- Migration of the elements Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium 特定元素的遷移 銻，砷，鋇，鎘，鉻，鉛，汞，硒	GB6675.1-2014 Cl. 5.3.3 *Test procedures for compliance testing :* GB6675.4-2014 'Safety of Toys - Part 4: Migration of Certain Elements'
Toys	- Migration of certain elements	EN71-3:2019 + A1:2021
Category III Toy materials: Scraped-off materials	Aluminium, Antimony, Arsenic, Barium, Boron, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Mercury, Nickel, Selenium, Strontium, Tin, Zinc	Alternative method as documented in TP-CH-A-31 (ICP-OES)
	Chromium (VI) Chromium (III) (by calculation)	Alternative method as documented in TP-CH-A-22 (IC-UV/VIS)
	Organic Tin: Methyl tin (MeT), Butyl tin (BuT), Di-n-propyl tin (DProT), Dibutyl tin (DBT), Tributyl tin (TBT), n-Octyl tin (MOT), Tetrabutyl tin (TeBT), Diphenyl tin (DPhT), Di-n-octyl tin (DOT), Triphenyl tin (TPhT) Dimethyl tin (DMT)	Annex G (GC-MS)

Mattel Toys Technical Consultancy (SZ) Ltd. – Quality Lab
美泰玩具技術咨詢(深圳)有限公司 – 品質檢定實驗室
5-6/F, #6 Building Hang Sang Chong Industrial Center, No. 107, Fu Kang Road, Heng Gang Town, Lang Gang District, Shenzhen City, Guang Dong Province, China
中國廣東省深圳市龍崗區橫崗鎮富康路 107 號恒生昌工業中心六棟 5-6 樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Chemical tests (cont'd):-	
Polyvinyl chloride components (Child use and care articles – Cutlery and feeding utensils)	- Bis (2-ethylhexyl) phthalate (DEHP) - Dibutyl phthalate (DBP) - Benzyl butyl phthalate (BBP) - Di-isononyl phthalate (DINP) - Di-isodecyl phthalate (DIDP) - Di-n-octyl phthalate (DNOP)	Regulation EC1907/2006 on REACH Annex XVII Item No. 51/52 as amended by Commission Regulation (EC) No.552/2009 *Test procedures for compliance testing:* EN14372: 2004 Cl. 5.4.2.3 and 6.3.2 **< *Excluding the following* >** Gravimetric analysis
Toys and childcare articles	- Dibutyl phthalate (DBP) - Bis (2-ethylhexyl) phthalate (DEHP) - Butyl benzyl phthalate (BBP) - Diisobutyl phthalate (DIBP) - Di-isononyl phthalate (DINP) - Di-n-pentyl phthalate (DPENP) - Di-n-hexyl phthalate (DHEXP) - Dicyclohexyl phthalate (DCHP)	US 16 CFR Part 1307 *Test procedures for compliance testing:* CPSC Test Method: CPSC-CH-C1001-09.4 Standard Operating Procedure for Determining of Phthalates, 17 January 2018 (extraction and analysis method**:** CPSC-CH-C1001-09.4)

Mattel Toys Technical Consultancy (SZ) Ltd. – Quality Lab
美泰玩具技術咨詢(深圳)有限公司 – 品質檢定實驗室
5-6/F, #6 Building Hang Sang Chong Industrial Center, No. 107, Fu Kang Road, Heng Gang Town, Lang Gang District, Shenzhen City, Guang Dong Province, China
中國廣東省深圳市龍崗區橫崗鎮富康路 107 號恒生昌工業中心六棟 5-6 樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Electrical tests :-	
Battery operated toys 電池動力玩具	- Battery operated toys safety tests 電池動力玩具安全測試	ASTM F963-23 Cl. 4.25 ***<Excluding the following>*** Cl. 4.25.9 ASTM F963-17 Cl. 4.25 ***<Excluding the following>*** Cl. 4.25.10
Electric toys supplied at extra-low voltage 電玩具	- Compliance inspection and safety tests 安全測試	EN 62115:2005 + A12: 2015 ***< Excluding the following >*** Cl. 14.15, 16 (component tests to other standards), 19 (burning test to IEC 60695-11-10 and ISO 9772, glow-wire ignition temperature test to IEC 60695-2-13 and needle flame test to Annex B), 20 (radiation tests), Annex B, C, E and ZB EN IEC 62115: 2020 + A11: 2020 ***< Excluding the following >*** Cl. 9.1 (protective electronic circuit), 13.8, 13.10, 15 (component tests to other standards), 18 (burning test to IEC 60695-11-10 and ISO 9772, glow-wire ignition temperature test to IEC 60695-2-13 and needle flame test to Annex B), 19.1 (optical radiation) and 19.2 Annex B, C, D, E and J AS/NZS 62115: 2018 IEC 62115: 2017 ***< Excluding the following >*** For the above two standards Cl. 9.1 (protective electronic circuit), 13.8, 13.10, 15 (component tests to other standards), 18 (burning test to IEC 60695-11-10 and ISO 9772, glow-wire ignition temperature test to IEC 60695-2-13 and needle flame test to Annex B), 19.1 (optical radiation) and 19.2 Annex B, C, D, E and J

Mattel Toys Technical Consultancy (SZ) Ltd. – Quality Lab
美泰玩具技術咨詢(深圳)有限公司 – 品質檢定實驗室
5-6/F, #6 Building Hang Sang Chong Industrial Center, No. 107, Fu Kang Road, Heng Gang Town, Lang Gang District, Shenzhen City, Guang Dong Province, China
中國廣東省深圳市龍崗區橫崗鎮富康路 107 號恒生昌工業中心六棟 5-6 樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Electrical tests :- (cont'd)	
Electric toys supplied at extra-low voltage 電玩具	- Compliance inspection and safety tests 安全測試	GB 6675.1-2014 Cl. 5.4 and GB 19865-2005 < ***Excluding the following***> Cl. 16 component tests to other standards 按其他標準的元件測試), 19 (burning test 耐燃試驗 to GB/T 5169.16 and ISO 9772, glow-wire ignition temperature test 灼熱絲起燃性試驗 to GB/T 5169.13 and needle flame test 針燃試驗 to Annex B), 20 (radiation tests 輻射試驗), Annex 附錄 B, C and E

Mattel Toys Technical Consultancy (SZ) Ltd. – Quality Lab
美泰玩具技術咨詢(深圳)有限公司 – 品質檢定實驗室
5-6/F, #6 Building Hang Sang Chong Industrial Center, No. 107, Fu Kang Road, Heng Gang Town, Lang Gang District, Shenzhen City, Guang Dong Province, China
中國廣東省深圳市龍崗區橫崗鎮富康路 107 號恒生昌工業中心六棟 5-6 樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Flammability tests :-	
Toys		ASTM F963-23 Cl. 4.2 ASTM F963-17 Cl. 4.2 16 CFR 1500.3(c)(6)(vi) and 16 CFR 1500.44 Canada Toys Regulations SOR/2011-17 (last amended on 19 December 2022)
Dolls, plush toys and soft toys	- Flammability of outer covering - Flammability of yarn - Flammability of hair or mane	32 33 34 Health Canada Product Safety Reference Manual Book 5 – Laboratory Policies and Procedures Part B: Test Method Section
	- Flammability of outer covering - Flammability of yarn - Flammability of hair or mane	Method F02 (2022-12-14)
Toys		EN 71-2: 2020 **<*Excluding the following*>** Tests for cellulose nitrate, highly flammable solid, flammable gel, extremely flammable liquid, highly flammable liquid, flammable liquid, flammable gas and surface flash test ISO 8124-2: 2023 **<*Excluding the following*>** Tests for cellulose nitrate, flammable gel, extremely flammable liquid, highly flammable liquid, flammable liquid, flammable gas and surface flash test AS/NZS ISO 8124.2: 2023 **<*Excluding the following*>** Tests for cellulose nitrate, flammable gel, extremely flammable liquid, highly flammable liquid, flammable liquid, flammable gas and surface flash test

Mattel Toys Technical Consultancy (SZ) Ltd. – Quality Lab
美泰玩具技術咨詢(深圳)有限公司 – 品質檢定實驗室
5-6/F, #6 Building Hang Sang Chong Industrial Center, No. 107, Fu Kang Road, Heng Gang Town, Lang Gang District, Shenzhen City, Guang Dong Province, China
中國廣東省深圳市龍崗區橫崗鎮富康路 107 號恒生昌工業中心六棟 5-6 樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Toys 玩具	Flammability tests :- (cont'd) 燃燒性能測試	GB 6675.1-2014 Cl. 5.2.1 and GB 6675.3-2014 ***<Excluding the following 不包含>*** Tests for cellulose nitrate, highly flammable solid, flammable gel, highly flammable liquid, flammable liquid, flammable gas and surface flash test 亞硝酸纖維，高度易燃固體，易燃凝膠體，高度易燃液體，易燃液體，易燃氣體及表面閃燃效應測試

Mattel Toys Technical Consultancy (SZ) Ltd. – Quality Lab
美泰玩具技術咨詢(深圳)有限公司 – 品質檢定實驗室

5-6/F, #6 Building Hang Sang Chong Industrial Center, No. 107, Fu Kang Road, Heng Gang Town, Lang Gang District, Shenzhen City, Guang Dong Province, China
中國廣東省深圳市龍崗區橫崗鎮富康路 107 號恒生昌工業中心六棟 5-6 樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Physical and mechanical tests :-	
Toys	Safety requirements	ASTM F963-23 Cl. 4.1, 4.3.7, 4.5, 4.6, 4.7, 4.8, 4.9, 4.10, 4.11, 4.12, 4.13, 4.14, 4.15, 4.16.3, 4.17, 4.18, 4.19, 4.20, 4.21, 4.22, 4.23, 4.24, 4.26, 4.27, 4.28, 4.31, 4.32, 4.33, 4.34, 4.35, 4.36, 4.38 and 4.39 **< *Excluding the following* >** Cl. 4.1(toxicology test of reprocessed material to 4.3.1), 4.5 (toys using percussion caps or other explosive action), 4.6.2, 4.8.1, 4.12 (sheeting with an average thickness of less than 0.00150 in), 4.14.4, 4.15.6, 4.20.1, 4.21.3.1, 4.21.3.3, 4.40, and 4.41 ASTM F963-17 Cl. 4.1, 4.3.7, 4.5, 4.6, 4.7, 4.8, 4.9, 4.10, 4.11, 4.12, 4.13, 4.14, 4.15, 4.16.3, 4.17, 4.18, 4.19, 4.20, 4.21, 4.22, 4.23, 4.24, 4.26, 4.27, 4.28, 4.31, 4.32, 4.33, 4.34, 4.35, 4.36, 4.38 and 4.39 **< *Excluding the following* >** Cl. 4.1(toxicology test of reprocessed material to 4.3.1), 4.5 (toys using percussion caps or other explosive action), 4.6.2, 4.8.1, 4.12 (sheeting with an average thickness of less than 0.00150 in), 4.14.4, 4.15.6, 4.20.1, 4.21.3.1 and 4.21.3.3

Mattel Toys Technical Consultancy (SZ) Ltd. – Quality Lab
美泰玩具技術咨詢(深圳)有限公司 – 品質檢定實驗室
5-6/F, #6 Building Hang Sang Chong Industrial Center, No. 107, Fu Kang Road, Heng Gang Town, Lang Gang District, Shenzhen City, Guang Dong Province, China
中國廣東省深圳市龍崗區橫崗鎮富康路 107 號恒生昌工業中心六棟 5-6 樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Physical and mechanical tests :- (cont'd)	
Small parts intended for use by children above 3 years of age	- Labeling requirement	16 CFR 1500.19
Toys	- Technical requirements for determining a sharp point in toys intended for use by children under 8 years of age	16 CFR 1500.48
	- Technical requirements for determining a sharp metal or glass edge in toys intended for use by children under 8 years of age	16 CFR 1500.49
	- Test methods for simulating use and abuse of toys intended for use by children - Impact test - Bite test - Flexure test - Torque test - Tension test - Compression test	16 CFR 1500.50, 1500.51, 1500.52 and 1500.53
Toys and other articles intended for use by children under 3 years of age	- Method for identifying choking, aspiration, or ingestion hazards because of small parts	16 CFR 1501 in conjunction with test methods specified in 16 CFR 1500.51 or 16 CFR 1500.52 [excluding bite test to 1500.51(c) or 1500.52 (c)]
Infant rattles	- Method for identifying choking and/or suffocation hazards	16 CFR 1510 in conjunction with test methods specified in 16 CFR 1500.51 [excluding bite test to 1500.51(c) and flexure test to 1500.51 (d)]

Mattel Toys Technical Consultancy (SZ) Ltd. – Quality Lab
美泰玩具技術咨詢(深圳)有限公司 – 品質檢定實驗室

5-6/F, #6 Building Hang Sang Chong Industrial Center, No. 107, Fu Kang Road, Heng Gang Town, Lang Gang District, Shenzhen City, Guang Dong Province, China
中國廣東省深圳市龍崗區橫崗鎮富康路 107 號恒生昌工業中心六棟 5-6 樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Physical and mechanical tests :- (cont'd)	
Toys		Canada Toys Regulations SOR/2011-17 (last amended on 19 December 2022)
	Packaging	
	- Flexible film bags	4
	Mechanical hazards	7 to 18 ***<Excluding the following>*** 17
	Auditory hazards	
	- Decibel limit	19
	Specific products	
	- Dolls, plush toys and soft toys	28, 29, 30 and 31 ***<Excluding the following>*** 29 (c) & (d)
	- Pull and plush toys	37
	- Rattles	40
	- Elastics	41
	- Magnetic toys	43
	- Exception of magnetic toys	44
Toys		Health Canada Product Safety Reference Manual Book 5 – Laboratory Policies and Procedures Part B: Test Method Section
	- Small components	Method M00.1 (2023-06-05)
	- Sharp edges	Method M00.2 (2023-06-05)
	- Sharp points	Method M00.3 (2023-06-05)
	- Eye/nose security – dolls, plush toys and soft toys	Method M00.4 (2020-05-06)
	- Reasonably foreseeable use	Method M01.1 (2019-02-18)
	- Test method for flexible film bags	Method M03 (2022-03-16)
	- Test method to determine the noise level of toys	Method M04 (2022-07-04)
	- Test method for rattles	Method M05 (2023-02-16)
	- Test method for magnetic toys	Method M18 (2021-02-04)

Mattel Toys Technical Consultancy (SZ) Ltd. – Quality Lab
美泰玩具技術咨詢(深圳)有限公司 – 品質檢定實驗室

5-6/F, #6 Building Hang Sang Chong Industrial Center, No. 107, Fu Kang Road, Heng Gang Town, Lang Gang District, Shenzhen City, Guang Dong Province, China
中國廣東省深圳市龍崗區橫崗鎮富康路 107 號恒生昌工業中心六棟 5-6 樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Physical and mechanical tests :- (cont'd)	
Toys	Safety requirements and test methods	EN 71-1: 2014 + A1: 2018 ***<Excluding the following>*** Cl. 4.3b), 4.6, 4.11 c), 4.11 e), 4.13, 4.14.1, 4.15.1.5, 4.15.1.6, 4.15.1.8, 4.15.2, 4.15.5, 4.17.4.2, 4.17.4.3, 4.18 (test to EN 15649-3), 4.19, 4.20.2.5, 4.20.2.10, 4.20.2.11, 4.20.2.12, 4.21, 4.24 and 5.6 AS/NZS ISO 8124.1: 2023 ISO 8124-1: 2022 ***< Excluding the following >*** for the above two standards Cl. 4.3.2, 4.8.2, 4.10b, 4.11.11, 4.15 (dynamic strength test for wheeled ride-on toys), 4.16.1, 4.16.2, 4.18.4.2, 4.18.4.4, 4.21, 4.22, 4.23, 4.24, 4.26c, 4.28, 4.29 (toys using percussion caps or other explosive action), 4.30 and 4.32
Toys 玩具	Technical requirements and test methods 技術要求及測試方法	GB 6675.1-2014 Cl. 5.1.1, 5.1.2, 5.1.3, 5.1.4, 5.1.5, 5.1.6, 5.1.7, 5.1.8, 5.1.10, 5.1.11 and GB 6675.2-2014 ***<Excluding the following 不包含>*** Cl. 4.3.2, 4.10b, 4.11.7, 4.15.2 (dynamic strength for wheeled ride-on toys 有輪乘騎玩具的動態強度測試), 4.16.1, 4.16.2, 4.18 (bows and arrows 弓和箭), 4.20, 4.21, 4.22, 4.23, 4.25c, 4.27 and 4.28 (toys using percussion caps or other explosive action 火藥帽玩具或爆炸功能玩具)
	- Instructions for use and warning labeling and 玩具使用說明和警告標識	GB 6675.1-2014 Cl. 5.7 and GB 6675.2-2014 Annex B (附錄 B)
	- Instructions for use of toys 玩具使用說明	GB 5296.5-2006

Research Engineering Development Facade Consultants Ltd. -
Fire and Facade Testing Laboratory
雄略幕牆顧問有限公司 – 消防及幕牆檢測實驗中心

ADDRESS 地址	:	DD134, Lot No. 126-128, Lung Kwu Tan, Tuen Mun, New Territories, Hong Kong. 香港新界屯門龍鼓灘丈量約份第134約地段第126-128號
ENQUIRY 查詢	:	Dr YUEN Sai-wing, Quality Manager 袁世榮博士，品質管理部經理
TELEPHONE 電話	:	2807 0930
FAX 傳真	:	2662 6105
CLIENTELE 服務對象	:	Public 公眾

Research Engineering Development Facade Consultants Ltd. -
Fire and Facade Testing Laboratory
雄略幕牆顧問有限公司 – 消防及幕牆檢測實驗中心

ADDRESS
地址

Main Laboratory	:	DD134, Lot No. 126-128, Lung Kwu Tan, Tuen Mun, New Territories, Hong Kong 香港新界屯門龍鼓灘丈量約份第 134 約地段第 126-128 號
Branch Laboratory	:	Unit 02, 28/F, Global Gateway Tower, 63 Wing Hong Street, Cheung Sha Wan, Kowloon 香港九龍長沙灣永康街 63 號 Global Gateway Tower 28 樓 02 室
Test Location at Huizhou	:	Route YE60, Shan Pi Village, Lilin Town, Zhong Kai Gao Xin District, Huizhou City, Guang Dong Province, China 中國廣東省惠州市仲愷高新區瀝林鎮山陂村 YE60 路
Test Location at Nansha	:	No. 111 Jiaoxin Road, Lanhe Town, Nansha District, Guangzhou, China 中國廣州市南沙區欖核鎮滘新路 111 號
ACCREDITED TEST CATEGORY **認可測試類別**	:	Construction Materials 建築材料

Research Engineering Development Facade Consultants Ltd. -
Fire and Facade Testing Laboratory
雄略幕牆顧問有限公司 – 消防及幕牆檢測實驗中心
DD134, Lot No. 126-128, Lung Kwu Tan, Tuen Mun, New Territories, Hong Kong.
香港新界屯門龍鼓灘丈量約份第 134 約地段第 126-128 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Fire (Fire resistance tests)	Fire resistance tests for loadbearing vertical elements (excluding impact test) in the force range 0 kN - 800 kN	AS 1530.4-2005 AS 1530.4-2014 ASTM E119-16a ASTM E119-20 BS 476: Part 20: 1987 + Amd. 6487 + Corr. 1: 2014 and BS 476: Part 21: 1987 + Corr. 1: 2014 BS EN 1365-1: 1999 excluding Cl. 9.5 BS EN 1365-1: 2012 excluding Cl. 9.5 GB/T 9978.1-2008 and GB/T 9978.4-2008 ISO 834-1: 1999(E) and ISO 834-4: 2000(E) UL 263: 2011
	Fire resistance tests for loadbearing horizontal elements in the force range 0 kN - 800 kN	AS 1530.4-2005 AS 1530.4-2014 ASTM E119-16a ASTM E119-20 BS 476: Part 20: 1987 + Amd. 6487 + Corr. 1: 2014 and BS 476: Part 21: 1987 + Corr. 1: 2014 BS EN 1365-2: 2000 BS EN 1365-2: 2014 GB/T 9978.1-2008 and GB/T 9978.5-2008 ISO 834-1: 1999(E) & ISO 834-5: 2000(E) UL 263: 2011
	Fire resistance tests for non-loadbearing vertical and horizontal elements of building construction	AS 1530.4-2005 AS 1530.4-2014 ASTM E119-16a ASTM E119-20 BS 476: Part 20: 1987 + Amd. 6487 + Corr. 1: 2014 and BS 476: Part 22: 1987 + Corr. 1: 2014 GB/T 9978.1-2008 and GB/T 9978.8-2008 GB/T 9978.1-2008 and GB/T 9978.9-2008 UL 263: 2011
	Fire resistance tests for door, shutters and openable windows	BS EN 1634-1: 2014 + A1: 2018 NFPA 252: 2012

Research Engineering Development Facade Consultants Ltd. -
Fire and Facade Testing Laboratory
雄略幕牆顧問有限公司 – 消防及幕牆檢測實驗中心
DD134, Lot No. 126-128, Lung Kwu Tan, Tuen Mun, New Territories, Hong Kong.
香港新界屯門龍鼓灘丈量約份第 134 約地段第 126-128 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Fire (Fire resistance tests) (cont'd)	Fire resistance tests of door assemblies	ASTM E2074-2000 SS 332: 2007 + Amd. 1: 2009 Cl. 4 and Annex E UL 10B-2009 UL 10B-2015 UL 10C-2009 UL 10C-2016 BS EN 1634-1: 2014 + A1: 2018 in conjunction with the following specification(s): SS 332: 2018 Cl. 5 and Annex B
	Fire resistance tests for fire doorsets and shutters assemblies	BS EN 1634-1: 2008 and BS EN 1634-2: 2008 GB/T 7633-2008 ISO 3008-1: 2007(E)
	Fire resistance tests – general requirements alternative and additional procedures (excluding impact test)	ASTM E119-16a ASTM E119-20 BS EN 1363-1: 1999 BS EN 1363-1: 2012 BS EN 1363-1: 2020 BS EN 1363-2: 1999 excluding Cl. 4 & Cl. 7 ISO 834-1: 1999 + Amd. 1: 2012(E) UL 263: 2011
	Fire resistance tests for glazed elements of building construction	GB/T 12513-2006 ISO 3009-2003(E) NFPA 257: 2012
	Fire resistance tests for non-loadbearing vertical elements (excluding impact test)	BS EN 1364-1: 1999 excluding Cl. 9.5 BS EN 1364-1: 2015 excluding Cl. 9.5 ISO 834-1: 1999(E) and ISO 834-8: 2002(E)
	Fire resistance tests for non-loadbearing horizontal elements	BS EN 1364-2: 1999 BS EN 1364-2: 2018 ISO 834-1: 1999(E) and ISO 834-9: 2003(E)
	Fire resistance tests for non-loadbearing elements: curtain walling	BS EN 1364-3: 2006 BS EN 1364-3: 2014 BS EN 1364-4: 2007 BS EN 1364-4: 2014

Research Engineering Development Facade Consultants Ltd. -
Fire and Facade Testing Laboratory
雄略幕牆顧問有限公司 – 消防及幕牆檢測實驗中心
DD134, Lot No. 126-128, Lung Kwu Tan, Tuen Mun, New Territories, Hong Kong.
香港新界屯門龍鼓灘丈量約份第 134 約地段第 126-128 號

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Fire (Fire resistance tests) (cont'd)	Fire resistance tests for loadbearing elements - beams in the force range 0 kN - 800 kN	BS EN 1365-3: 2000 ISO 834-1: 1999(E) and ISO 834-6: 2000(E)
	Fire resistance tests for loadbearing elements - columns in the force range 0 kN - 800 kN	BS EN 1365-4: 1999 ISO 834-1: 1999(E) and ISO 834-7: 2000(E)
	Fire resistance tests of lift landing doors	BS EN 81-58: 2003 BS EN 81-58: 2018
	Fire resistance tests on components for smoke and heat control systems – Specification for smoke curtains	BS 476: Part 20: 1987 + Amd. 6487 + Corr. 1: 2014 in conjunction with the following specification(s): BS 7346: Part 3: 1990 Cl. 4.1
	– Specification for temperature/time resistance tests for smoke barriers	BS EN 1363-1: 2020 in conjunction with the following specification(s): BS EN 12101-1: 2005 + A1: 2006 Annex D
	– Natural smoke and heat exhaust ventilators	BS EN 12101-2: 2003 Annex C, D & G BS EN 12101-2: 2017 Annex C, D & G
	Fire resistance tests for service installations - Service ducts and shafts	BS EN 1366-5: 2010
	Fire resistance tests for service installations - Raised access and hollow core floors	BS EN 1366-6: 2004
	Fire resistance tests for shutters assemblies	SS 489: 2001 Cl. 4 SS 489: 2015 Cl. 5
	Fire testing of an assembly subject to elevated temperature (250ºC/400ºC)	In-house method TM1.103
Fire (Other)	Pre-test conditioning for doors, shutters and openable windows	BS EN 14600: 2005 Cl. 5.1 (excluding Cl 5.1.1.2) & Cl. 5.2 BS EN 16034: 2014 + Corr. 2014 Annex A (excluding A.2.3)

Research Engineering Development Facade Consultants Ltd. -
Fire and Facade Testing Laboratory
雄略幕牆顧問有限公司 – 消防及幕牆檢測實驗中心
Unit 02, 28/F, Global Gateway Tower, 63 Wing Hong Street, Cheung Sha Wan, Kowloon
香港九龍長沙灣永康街 63 號 Global Gateway Tower 28 樓 02 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Fire (Other)	Operating temperature test on fusible link	FSD Sampling Test Procedure on Fusible Link for use in Fire Damper of Ventilating System 2005, Cl. 3

Research Engineering Development Facade Consultants Ltd. -
Fire and Facade Testing Laboratory
雄略幕牆顧問有限公司 – 消防及幕牆檢測實驗中心
Route YE60, Shan Pi Village, Lilin Town, Zhong Kai Gao Xin District, Huizhou City, Guang Dong Province, China
中國廣東省惠州市仲愷高新區瀝林鎮山陂村 YE60 路

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Curtain Walls	Cyclic safety test for curtain wall system	Buildings Department APP-37 (May 2012) App. B Buildings Department Code of Practice for Structural Use of Glass (2018) Table 8.1
	Water penetration test by uniform static air pressure difference	ASTM E331-00 (Reapproved 2009) ASTM E331-00 (Reapproved 2016) AS/NZS 4284:2008 Cl. 8.5
	Water penetration test by cyclic static air pressure difference	ASTM E547-00 (Reapproved 2009) ASTM E547-00 (Reapproved 2016) AS/NZS 4284:2008 Cl. 8.6
	Structural performance by uniform static air pressure difference	ASTM E330-02 (Reapproved 2010) ASTM E330/E330M-14 (Reapproved 2021) AS/NZS 4284:2008 Cl. 8.2, 8.3 & 8.8
	Water penetration by dynamic pressure	AAMA 501.1-05 AAMA 501.1-17
	Air leakage rate	ASTM E283-04 ASTM E283-04 (Reapproved 2012) AS/NZS 4284:2008 Cl. 8.4
	Static test to seismic and wind interstory drifts	AAMA 501.4-09 AAMA 501.4-18 AS/NZS 4284:2008 Cl. 8.9
建築幕牆	建築幕牆氣密性能檢測方法	GB/T 15227-2007 GB/T 15227-2019
	建築幕牆水密性能檢測方法	GB/T 15227-2007 GB/T 15227-2019
	建築幕牆抗風壓性能檢測方法	GB/T 15227-2007 GB/T 15227-2019
	建築幕牆層間變形性能分級及檢測方法	GB/T 18250-2015

Research Engineering Development Facade Consultants Ltd. -
Fire and Facade Testing Laboratory
雄略幕牆顧問有限公司 – 消防及幕牆檢測實驗中心
Route YE60, Shan Pi Village, Lilin Town, Zhong Kai Gao Xin District, Huizhou City, Guang Dong Province, China
中國廣東省惠州市仲愷高新區瀝林鎮山陂村 YE60 路

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Fire (Fire resistance tests)	Fire resistance tests for loadbearing horizontal elements in the force range 0 kN – 800 kN	AS 1530.4-2005 AS 1530.4-2014 ASTM E119-16a ASTM E119-20 BS 476: Part 20: 1987 + Amd. 6487 + Corr. 1: 2014 and BS 476: Part 21: 1987 + Corr. 1: 2014 BS EN 1365-2: 2000 BS EN 1365-2: 2014 GB/T 9978.1-2008 and GB/T 9978.5-2008 ISO 834-1: 1999 (E) and ISO 834-5: 2000 (E) UL 263: 2011
	Fire resistance tests for non-loadbearing vertical and horizontal elements of building construction	AS 1530.4-2005 AS 1530.4-2014 ASTM E119-16a ASTM E119-20 BS 476: Part 20: 1987 + Amd. 6487 + Corr. 1: 2014 and BS 476: Part 22: 1987 + Corr. 1: 2014 GB/T 9978.1-2008 and GB/T 9978.8-2008 GB/T 9978.1-2008 and GB/T 9978.9-2008 UL 263: 2011
	Fire resistance tests for concrete tunnel fire protection linings to RWS curve	In-house method TM1.104
	Fire resistance tests for door, shutters and openable window	BS EN 1634-1: 2014 + A1: 2018 NFPA 252: 2012
	Fire resistance tests for door assemblies	ASTM E2074-2000 SS 332: 2007 + Amd. 1: 2009 Cl.4 Annex E UL 10B-2009 UL 10B-2015 UL 10C-2009 UL 10C-2016 BS EN 1634-1: 2014 + A1: 2018 in conjunction with the following specification(s): SS 332: 2018 Cl. 5 and Annex B
	Fire resistance tests for doorsets and shutters assemblies	BS EN 1634: Part 1: 2008 and BS EN 1634: Part 2: 2008 GB/T 7633-2008 ISO 3008-1: 2007 (E)

Research Engineering Development Facade Consultants Ltd. -
Fire and Facade Testing Laboratory
雄略幕牆顧問有限公司 – 消防及幕牆檢測實驗中心
Route YE60, Shan Pi Village, Lilin Town, Zhong Kai Gao Xin District, Huizhou City, Guang Dong Province, China
中國廣東省惠州市仲愷高新區瀝林鎮山陂村 YE60 路

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Fire (Fire resistance tests) (cont'd)	Fire resistance tests for glazed elements of building construction	GB/T 12513-2006 ISO 3009: 2003(E) NFPA 257: 2012
	Fire resistance tests – general requirements alternative and additional procedures (excluding impact test)	ASTM E119-16a ASTM E119-20 BS EN 1363-1: 1999 BS EN 1363-1: 2012 BS EN 1363-1: 2020 BS EN 1363-2: 1999 excluding Cl. 4 & Cl. 7 ISO 834-1: 1999 + Amd. 1: 2012 (E) UL 263: 2011
	Fire resistance tests for non-loadbearing vertical elements (excluding impact test)	BS EN 1364-1: 1999 excluding Cl. 9.5 BS EN 1364-1: 2015 excluding Cl. 9.5 ISO 834-1: 1999(E) and ISO 834-8: 2002 (E)
	Fire resistance tests for non-loadbearing horizontal elements	BS EN 1364-2: 1999 BS EN 1364-2: 2018 ISO 834-1: 1999(E) and ISO 834-9: 2003 (E)
	Fire resistance tests for non-loadbearing elements: curtain walling	BS EN 1364-3: 2006 BS EN 1364-3: 2014 BS EN 1364-4: 2007 BS EN 1364-4: 2014
	Fire resistance tests for loadbearing elements - Beams in the force range 0 kN – 800 kN	BS EN 1365-3: 2000 ISO 834-1: 1999(E) and ISO 834-6: 2000 (E)
	Fire resistance tests of lift landing doors	BS EN 81-58: 2003 BS EN 81-58: 2018
	Fire resistance tests on components for Smoke and heat control systems - Specification for smoke curtains	BS 476: Part 20: 1987 + Amd. 6487 + Corr. 1: 2014 in conjunction with the following specification(s): BS 7346-3: 1990 Cl. 4.1
	- Specification for temperature/time resistance tests for smoke barrier	BS EN 1363-1: 2020 in conjunction with the following specification(s): BS EN 12101-1: 2005 + A1: 2006 Annex D
	- Natural smoke and heat exhaust ventilators	BS EN 12101-2: 2003 Annex C, D & G BS EN 12101-2: 2017 Annex C, D & G

Research Engineering Development Facade Consultants Ltd. -
Fire and Facade Testing Laboratory
雄略幕牆顧問有限公司 – 消防及幕牆檢測實驗中心
Route YE60, Shan Pi Village, Lilin Town, Zhong Kai Gao Xin District, Huizhou City, Guang Dong Province, China
中國廣東省惠州市仲愷高新區瀝林鎮山陂村 YE60 路

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Fire (Fire resistance tests) (cont'd)	Fire resistance tests for service installations - services ducts and shafts	BS EN 1366-5: 2010
	Fire resistance tests for service installations - raised access and hollow core floors	BS EN 1366-6: 2004
	Fire resistance tests for shutter assemblies	SS 489: 2001 Cl.4 SS 489: 2015 Cl. 5
	Fire testing of an assembly subject to elevated temperature (250ºC/400ºC)	In-house method TM1.103
Fire (Other)	Determination of the gross heat of combustion	BS EN ISO 1716: 2010
	Non-combustibility test for building products	AS 1530.1: 1994 (reconfirmed 2016) BS 476: Part 4: 1970 + Amd. 2483 & 4390 + Corr. 1: 2014 BS EN ISO 1182: 2010
	Pre-test conditioning for doors, shutters and openable windows	BS EN 14600: 2005 Cl 5.1 (excluding Cl. 5.1.1.2) & Cl. 5.2 BS EN 16034: 2014 + Corr. 2014 Annex A (excluding A.2.3)
Glass	Impact test of glass	ANSI Z97.1:2009 BS 6206: 1981
	Non-destructive photoelastic measurement of surface stresses in annealed, heat-strengthened and fully tempered flat glass	ASTM C1279-09 excluding Cl. 9.2 & 10.2 ASTM C1279-13 excluding Cl. 15.2 & 16.2
	Bending strength of glass	BS EN 1288-3: 2000

Research Engineering Development Facade Consultants Ltd. -
Fire and Facade Testing Laboratory
雄略幕牆顧問有限公司 – 消防及幕牆檢測實驗中心
Route YE60, Shan Pi Village, Lilin Town, Zhong Kai Gao Xin District, Huizhou City, Guang Dong Province, China
中國廣東省惠州市仲愷高新區瀝林鎮山陂村 YE60 路

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Windows	Performance test of louvers	AMCA 500-L-2007 Cl. 8.1 & 8.3.2 AS 4740: 2000 (reconfirmed 2016) App. B AS 4740: 2000 (reconfirmed 2016) App. D BS EN 13030: 2001 Cl. 7.1 & 7.2
	Deflection	AS 4420.2: 1996 AS 4420.1: 2016 in conjunction with the following specification(s): AS 2047: 2014 + Amd. 1: 2016 Cl. 2.3.1.3 & Cl. 2.3.2.3 NZS 4211: 2008 + A1: 2014 Cl. 6
	Operating force	AS 4420.3: 1996 AS 4420.1: 2016 in conjunction with the following specification(s): AS 2047: 2014 + Amd. 1: 2016 Cl. 2.3.1.4 & Cl. 2.3.2.4 NZS 4211: 2008 + A1: 2014 Cl. 7
	Air infiltration	AS 4420.4: 1996 AS 4420.1: 2016 in conjunction with the following specification(s): AS 2047: 2014 + Amd. 1: 2016 Cl. 2.3.1.5 & Cl. 2.3.2.5 NZS 4211: 2008 + A1: 2014 Cl. 8
	Water penetration	AS 4420.5: 1996 AS 4420.1: 2016 in conjunction with the following specification(s): AS 2047: 2014 + Amd. 1: 2016 Cl. 2.3.1.6 & Cl. 2.3.2.6 NZS 4211: 2008 + A1: 2014 Cl. 9
	Ultimate strength	AS 4420.6: 1996 AS 4420.1: 2016 in conjunction with the following specification(s): AS 2047: 2014 + Amd. 1: 2016 Cl. 2.3.1.7 & Cl. 2.3.2.7 NZS 4211: 2008 + A1: 2014 Cl. 10
	建築用通風百葉窗通風性能檢測方法	GB/T 39969-2021 Section 8
	建築用通風百葉窗動態防雨性能檢測方法	GB/T 39969-2021 Section 10

Research Engineering Development Facade Consultants Ltd. - Fire and Facade Testing Laboratory
雄略幕牆顧問有限公司 – 消防及幕牆檢測實驗中心
No. 111 Jiaoxin Road, Lanhe Town, Nansha District, Guangzhou, China
中國廣州市南沙區欖核鎮滘新路 111 號

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Curtain Walls	Cyclic safety test for curtain wall system	Buildings Department APP-37 (May 2012) App. B Buildings Department Code of Practice for Structural Use of Glass (2018) Table 8.1
	Water penetration by uniform static air pressure difference	ASTM E331-00 (Reapproved 2009) ASTM E331-00 (Reapproved 2016) AS/NZS 4284:2008 Cl. 8.5
	Water penetration by cyclic static air pressure difference	ASTM E547-00 (Reapproved 2009) ASTM E547-00 (Reapproved 2016) AS/NZS 4284:2008 Cl. 8.6
	Structural performance by uniform static air pressure difference	ASTM E330-02 (Reapproved 2010) ASTM E330/E330M-14 (Reapproved 2021) AS/NZS 4284:2008 Cl. 8.2, 8.3 & 8.8
	Water penetration by dynamic pressure	AAMA 501.1-05 AAMA 501.1-17
	Air leakage rate	ASTM E283-04 ASTM E283-04 (Reapproved 2012) AS/NZS 4284: 2008 Cl. 8.4
	Static test to seismic and wind interstory drifts	AAMA 501.4-09 AAMA 501.4-18 AS/NZS 4284:2008 Cl. 8.9
建築幕牆	建築幕牆氣密性能檢測方法	GB/T 15227-2007 GB/T 15227-2019
	建築幕牆水密性能檢測方法	GB/T 15227-2007 GB/T 15227-2019
	建築幕牆抗风压性能檢測方法	GB/T 15227-2007 GB/T 15227-2019
	建築幕牆層間變形性能分級及檢測方法	GB/T 18250-2015
Metallic materials (Falling Rock Protection Kits)	Identification tests on net elements: ring nets and energy dissipating device in the force range 60 kN - 1000 kN	ETAG 027: 2012 + Amd. 2013 Annex C.2 & C.3.1

Research Engineering Development Facade Consultants Ltd. -
Fire and Facade Testing Laboratory
雄略幕牆顧問有限公司 – 消防及幕牆檢測實驗中心
No. 111 Jiaoxin Road, Lanhe Town, Nansha District, Guangzhou, China
中國廣州市南沙區欖核鎮滘新路 111 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Fire (Smoke control tests)	Smoke control test for smoke control doors and shutters	BS EN 1634-3: 2004
	Test for permeability to smoke for Static Smoke Barrier	BS EN 12101-1: 2005 + A1: 2006 Cl. 4.4.2, Annex C.2, C.3 & C.4
Fire (Other)	Fire tests on building materials and structures Method of test to determine the classification of the surface spread of flame of products	BS 476: Part 7: 1997 + Corr. 1: 2014
	Pre-test conditioning test for door, shutter and openable windows	BS EN 14600: 2005 Cl. 5.1 (excluding Cl. 5.1.1.2) & Cl. 5.2
Glass	Impact test of glass	BS EN 12600: 2002

Research Engineering Development Facade Consultants Ltd. -
Fire and Facade Testing Laboratory
雄略幕牆顧問有限公司 – 消防及幕牆檢測實驗中心
No. 111 Jiaoxin Road, Lanhe Town, Nansha District, Guangzhou, China
中國廣州市南沙區欖核鎮滘新路 111 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Windows	Deflection	AS 4420.2: 1996 AS 4420.1: 2016 in conjunction with the following specification(s): AS 2047: 2014 + Amd. 1: 2016 Cl. 2.3.1.3 & Cl. 2.3.2.3 NZS 4211: 2008 + A1: 2014 Cl. 6
	Operating force	AS 4420.3: 1996 AS 4420.1: 2016 in conjunction with the following specification(s): AS 2047: 2014 + Amd. 1: 2016 Cl. 2.3.1.4 & Cl. 2.3.2.4 NZS 4211: 2008 + A1: 2014 Cl. 7
	Air infiltration	AS 4420.4: 1996 AS 4420.1: 2016 in conjunction with the following specification(s): AS 2047: 2014 + Amd. 1: 2016 Cl. 2.3.1.5 & Cl. 2.3.2.5 NZS 4211: 2008 + A1: 2014 Cl. 8
	Water penetration	AS 4420.5: 1996 AS 4420.1: 2016 in conjunction with the following specification(s): AS 2047: 2014 + Amd. 1: 2016 Cl. 2.3.1.6 & Cl. 2.3.2.6 NZS 4211: 2008 + A1: 2014 Cl. 9
	Ultimate strength	AS 4420.6: 1996 AS 4420.1: 2016 in conjunction with the following specification(s): AS 2047: 2014 + Amd. 1: 2016 Cl. 2.3.1.7 & Cl. 2.3.2.7 NZS 4211: 2008 + A1: 2014 Cl. 10

Quality Testing Services Limited
品質測檢服務有限公司

ADDRESS : 15/F., 363 Java Road, North Point, Hong Kong.
地址 香港北角渣華道363號15樓

ENQUIRY : Mr Bruce LEUNG Kam-cheung, Quality Manager
查詢 梁錦祥先生，品質經理

TELEPHONE : 2963 3050
電話

FAX : 2258 0271
傳真

E-MAIL : bruce.leung@towngas.com
電郵

CLIENTELE : Public
服務對象 公眾

Contact details last updated on: 17 December 2024

Quality Testing Services Limited
品質測檢服務有限公司

ADDRESS **地址**	:	15/F., 363 Java Road, North Point, Hong Kong. 香港北角渣華道 363 號 15 樓
ACCREDITED TEST CATEGORY **認可測試類別**	:	Calibration Services 校正服務 Miscellaneous 雜類 Physical and Mechanical Testing 物理及機械測試

Quality Testing Services Limited
品質測檢服務有限公司

15/F., 363 Java Road, North Point, Hong Kong.
香港北角渣華道 363 號 15 樓

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Flow measurements		
- Gas meter		
- diaphragm meter (U6 and U8)	Calibration of gas volume flow in accordance with in-house methods GM-TS1 and GM-TP1 by comparison with a reference sonic nozzle over the following ranges :	
	at gas volume flow rate of 0.04 m^3/h to 8 m^3/h 0.028 m^3 to 0.4 m^3	0.30 %
- diaphragm meter (U6, U8, U16, U25, U40, U65, U100 and U160) and rotary piston meter	Calibration of gas volume flow in accordance with in-house methods GM-TS1 and GM-TP1 by comparison with a reference rotary piston meter over the following ranges :	
	at gas volume flow rate of 0.85 m^3/h to 1.25 m^3/h 0.05 m^3 to 1.25 m^3	0.48 %
	at gas volume flow rate of 1.25 m^3/h to 2.50 m^3/h 0.07 m^3 to 1.37 m^3	0.37 %
	at gas volume flow rate of 2.50 m^3/h to 100 m^3/h 0.1 m^3 to 20.8 m^3	0.30 %
- diaphragm meter (U100 and U160), rotary piston meter and turbine meter	Calibration of gas volume flow in accordance with in-house methods GM-TS1 and GM-TP1 by comparison with a reference turbine meter over the following ranges :	
	at gas volume flow rate of 100 m^3/h to 195 m^3/h 3.8 m^3 to 21.8 m^3	0.30 %
	at gas volume flow rate of 195 m^3/h to 520 m^3/h 5.0 m^3 to 43.7 m^3	0.33 %
	at gas volume flow rate of 520 m^3/h to 585 m^3/h 14.4 m^3 to 49.5 m^3	0.35 %
	at gas volume flow rate of 585 m^3/h to 650 m^3/h 19.8 m^3 to 62.3 m^3	0.36 %

@ UNLESS OTHERWISE SPECIFIED, ACCREDITED ACTIVITIES ARE CONDUCTED AT THE LABORATORY.

* THE CALIBRATION UNCERTAINTY OF A DEVICE UNDER TEST IS USUALLY REPORTED AT 95% CONFIDENCE LEVEL AND DEPENDS ON BOTH THE CMC OF THE LABORATORY AND THE PERFORMANCE OF THE DEVICE DURING CALIBRATION.

Quality Testing Services Limited
品質測檢服務有限公司
15/F., 363 Java Road, North Point, Hong Kong.
香港北角渣華道 363 號 15 樓

Miscellaneous 雜類		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Domestic gas appliances		
	Safety tests :-	
- Domestic gas appliance not connected to a flue (for LPG and town gas)	- basic requirements - general construction - gas soundness - ignition - flame stability - heat input - gas regulator performance - combustion - flame failure device - surface temperature - electrical insulation resistance	EMSD/GU05/GS/TA2/NCF: August 2016
	- basic requirements - general construction - gas soundness - ignition - flame stability - heat input - combustion - flame failure device - electrical insulation resistance	EMSD/GU05/GS/QA: August 2016

Quality Testing Services Limited
品質測檢服務有限公司
15/F., 363 Java Road, North Point, Hong Kong.
香港北角渣華道 363 號 15 樓

Miscellaneous 雜類		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Domestic gas appliances	Safety tests :-	
- Domestic gas appliance connected to a flue (for LPG and town gas)	- basic requirements - general construction - gas soundness - water soundness - ignition - flame stability - heat input - gas regulator performance - combustion - flame failure device - surface temperature - overheating of water (for instantaneous water heaters) - electrical insulation resistance - soundness of combustion circuit of room-sealed appliances - combustion products discharge failure devices of fan powered appliances	EMSD/GU05/GS/TA2/CTF: August 2016
	- basic requirements - general construction - gas soundness - water soundness - ignition - flame stability - heat input - combustion - flame failure device - electrical insulation resistance	EMSD/GU05/GS/QA: August 2016

Quality Testing Services Limited
品質測檢服務有限公司

15/F., 363 Java Road, North Point, Hong Kong.
香港北角渣華道 363 號 15 樓

Miscellaneous 雜類		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Domestic gas appliances	Safety tests :-	
- Domestic gas cooker with rated input not exceeding 7 kW for each burner (for LPG and town gas)	Thermal efficiency tests :- - heat input - thermal efficiency	The Hong Kong Voluntary Energy Efficiency Labelling Scheme for Gas Cookers (November 2021) issued by EMSD Cl. 5 and 7.2 in conjunction with GB 30720-2014 The Mandatory Energy Efficiency Labelling Scheme - Code of Practice on Energy Labelling of Products 2023 (September 2023 Edition) issued by EMSD Cl. 16 in conjunction with GB 30720-2014
- Portable hotplate fuelled by disposable LPG cylinder	- basic requirements - general construction - gas soundness - ignition - flame stability - gas consumption - combustion - flame failure device - surface temperature - electrical insulation resistance - over-pressure sensitive safety device	EMSD/GU05/GS/TA2/NCF: August 2016
	- basic requirements - general construction - gas soundness - ignition - flame stability - gas consumption - combustion - flame failure device - electrical insulation resistance - over-pressure sensitive safety device	EMSD/GU05/GS/QA: August 2016

Quality Testing Services Limited
品質測檢服務有限公司

15/F., 363 Java Road, North Point, Hong Kong.
香港北角渣華道 363 號 15 樓

Physical and Mechanical Testing 物理及機械測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Pipe, tubing and associated fitting - Corrugated stainless steel flexible gas tubing for connection of domestic appliances using town gas or LPG (for length of tubing up to 1 m)	Physical tests :- - Initial leak-tightness test - Flow rate test - Tension test - Bend test - Flexing test - Torsion test - Impact resistance test - Pressure test - Final leak-tightness test	In-house flexible gas tubing testing specification CSST-TS1: May 2008

Quality Testing Services Limited
品質測檢服務有限公司
15/F., 363 Java Road, North Point, Hong Kong.
香港北角渣華道 363 號 15 樓

Physical and Mechanical Testing 物理及機械測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Pipe, tubing and associated fitting		
- Polyethylene (PE 80 and PE 100) pipe for water supply (nominal diameter up to 560 mm)	Dimensional measurements	EN 12201-2: 2011 Cl. 6.1, 6.2, 6.3 and 6.5 in conjunction with ISO 3126: 2005 ISO 4427-2: 2007 Cl. 6.1, 6.2, 6.3 and 6.5 in conjunction with ISO 3126: 2005
- Polyethylene (PE 80 and PE 100) electrofusion socket fitting for water supply (nominal diameter up to 560 mm)	Dimensional measurements	EN 12201-3: 2011 Cl. 6.1, 6.2.1, 6.2.2a) and 6.2.3 in conjunction with ISO 3126: 2005 ISO 4427-3: 2007 Cl. 6.1, 6.2.1, 6.2.2a), 6.2.3 and 6.2.4 in conjunction with ISO 3126: 2005
- Polyethylene (PE 80 and PE 100) spigot end fitting for water supply (nominal diameter up to 560 mm)	Dimensional measurements	EN 12201-3: 2011 Cl. 6.1 and 6.3 in conjunction with ISO 3126: 2005 ISO 4427-3: 2007 Cl. 6.1 and 6.3 in conjunction with ISO 3126: 2005

Quality Testing Services Limited
品質測檢服務有限公司
15/F., 363 Java Road, North Point, Hong Kong.
香港北角渣華道 363 號 15 樓

Physical and Mechanical Testing 物理及機械測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Pipe, tubing and associated fitting		
- Electrofusion assembly of Polyethylene (PE 80 and PE 100) pipe and socket fitting for water supply (nominal diameter equals to or greater than 90 mm)	Determination of the decohesive resistance using peel test method	EN 12201-3: 2011 Cl. 7.1, 7.2 and 7.3 in conjunction with ISO 13954: 1997 ***<Excluding the following>*** preparation of test assembly to ISO 11413 ISO 4427-3: 2007 Cl. 7.1, 7.2 and 7.3 in conjunction with ISO 13954: 1997 ***<Excluding the following>*** preparation of test assembly to ISO 11413
- Electrofusion assembly of Polyethylene (PE 80 and PE 100) pipe and socket fitting for water supply (nominal diameter up to 225 mm)	Determination of the decohesive resistance using crushing test method	EN 12201-3: 2011 Cl. 7.1, 7.2 and 7.3 in conjunction with ISO 13955: 1997 ***<Excluding the following>*** preparation of test assembly to ISO 11413 ISO 4427-3: 2007 Cl. 7.1, 7.2 and 7.3 in conjunction with ISO 13955: 1997 ***<Excluding the following>*** preparation of test assembly to ISO 11413

Quality Testing Services Limited
品質測檢服務有限公司

15/F., 363 Java Road, North Point, Hong Kong.
香港北角渣華道 363 號 15 樓

Physical and Mechanical Testing 物理及機械測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Pipe, tubing and associated fitting		
- Butt-fused Polyethylene (PE 80 and PE 100) pipe and/or spigot end fitting assembly for water supply (nominal diameter equals to or greater than 90 mm)	Determination of the tensile strength	EN 12201-3: 2011 Cl. 7.1, 7.2 and 7.3 in conjunction with ISO 13953: 2001 ***<Excluding the following>*** preparation of test assembly ISO 4427-3: 2007 Cl. 7.1, 7.2 and 7.3 in conjunction with ISO 13953: 2001 ***<Excluding the following>*** preparation of test assembly

Quality Testing Services Limited
品質測檢服務有限公司

15/F., 363 Java Road, North Point, Hong Kong.
香港北角渣華道 363 號 15 樓

Physical and Mechanical Testing 物理及機械測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Pipe, tubing and associated fitting		
- Polyethylene (PE 80 and PE 100) pipe for gas supply (nominal diameter up to 560 mm)	Dimensional measurements	EN 1555-2: 2010 Cl. 6.1, 6.2, 6.3 and 6.6 in conjunction with ISO 3126: 2005 EN 1555-2: 2021 Cl. 7.1, 7.2 and 7.3 in conjunction with ISO 3126: 2005 ISO 4437: 2007 Cl. 5.2.1, 5.2.2 and 5.2.3 in conjunction with ISO 3126: 2005 ISO 4437-2: 2014 Cl. 6.1, 6.2, 6.3 and 6.6 in conjunction with ISO 3126: 2005

Quality Testing Services Limited
品質測檢服務有限公司

15/F., 363 Java Road, North Point, Hong Kong.
香港北角渣華道 363 號 15 樓

Physical and Mechanical Testing 物理及機械測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Pipe, tubing and associated fitting - Polyethylene (PE 80 and PE 100) electrofusion socket fitting for gas supply (nominal diameter up to 560 mm)	Dimensional measurements	EN 1555-3: 2010 Cl. 6.1, 6.2.1, 6.2.2a), 6.2.3 and 6.2.4 in conjunction with ISO 3126: 2005 EN 1555-3: 2021 Cl. 7.1, 7.2.1, 7.2.2, 7.2.3, 7.2.4 and 7.2.5 in conjunction with ISO 3126: 2005 ISO 8085-3: 2001 Cl. 7.1 and 7.2 in conjunction with ISO 3126: 2005 ISO 4437-3: 2014 Cl. 6.1, 6.2.1, 6.2.2a), 6.2.3 and 6.2.4 in conjunction with ISO 3126: 2005

Quality Testing Services Limited
品質測檢服務有限公司
15/F., 363 Java Road, North Point, Hong Kong.
香港北角渣華道 363 號 15 樓

Physical and Mechanical Testing 物理及機械測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Pipe, tubing and associated fitting - Polyethylene (PE 80 and PE 100) spigot end fitting for gas supply (nominal diameter up to 560 mm)	Dimensional measurements	EN 1555-3: 2010 Cl. 6.1, 6.4.1, 6.4.2 and 6.4.3 in conjunction with ISO 3126: 2005 EN 1555-3: 2021 Cl. 7.1, 7.4.1, 7.4.2 and 7.4.3 in conjunction with ISO 3126: 2005 ISO 8085-2: 2001 Cl. 7.1, 7.2, 7.3.2 and 7.3.3 in conjunction with ISO 3126: 2005 ISO 4437-3: 2014 Cl. 6.1, 6.4.1, 6.4.2 and 6.4.3 in conjunction with ISO 3126: 2005

Quality Testing Services Limited
品質測檢服務有限公司
15/F., 363 Java Road, North Point, Hong Kong.
香港北角渣華道 363 號 15 樓

Physical and Mechanical Testing 物理及機械測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Pipe, tubing and associated fitting - Electrofusion assembly of Polyethylene (PE 80 and PE 100) pipe and socket fitting for gas supply (nominal diameter equals to or greater than 90 mm)	Determination of the decohesive resistance using peel test method	EN 1555-3: 2010 Cl. 7.2 in conjunction with ISO 13954: 1997 ***<Excluding the following>*** preparation of test assembly to ISO 11413 EN 1555-3: 2021 Cl. 8.2 in conjunction with ISO 13954: 1997 ***<Excluding the following>*** preparation of test assembly to ISO 11413 ISO 8085-3: 2001 Cl. 8.1 in conjunction with ISO 13954: 1997 ***<Excluding the following>*** preparation of test assembly to ISO 11413 ISO 4437-3: 2014 Cl. 7.2 in conjunction with ISO 13954: 1997 ***<Excluding the following>*** preparation of test assembly to ISO 11413

Quality Testing Services Limited
品質測檢服務有限公司

15/F., 363 Java Road, North Point, Hong Kong.
香港北角渣華道 363 號 15 樓

Physical and Mechanical Testing 物理及機械測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Pipe, tubing and associated fitting - Electrofusion assembly of Polyethylene (PE 80 and PE 100) pipe and socket fitting for gas supply (nominal diameter up to 225 mm)	Determination of the decohesive resistance using crushing test method	EN 1555-3: 2010 Cl. 7.2 in conjunction with ISO 13955: 1997 ***<Excluding the following>*** preparation of test assembly to ISO 11413 EN 1555-3: 2021 Cl. 8.2 in conjunction with ISO 13955: 1997 ***<Excluding the following>*** preparation of test assembly to ISO 11413 ISO 8085-3: 2001 Cl. 8.1 in conjunction with ISO 13955: 1997 ***<Excluding the following>*** preparation of test assembly to ISO 11413 ISO 4437-3: 2014 Cl. 7.2 in conjunction with ISO 13955: 1997 ***<Excluding the following>*** preparation of test assembly to ISO 11413

Quality Testing Services Limited
品質測檢服務有限公司

15/F., 363 Java Road, North Point, Hong Kong.
香港北角渣華道 363 號 15 樓

Physical and Mechanical Testing 物理及機械測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Pipe, tubing and associated fitting		
- Butt-fused Polyethylene (PE 80 and PE 100) pipe and/or spigot end fitting assembly for gas supply (nominal diameter equals to or greater than 90 mm)	Determination of the tensile strength	EN 1555-3: 2010 Cl. 7.2 in conjunction with ISO 13953: 2001 ***<Excluding the following>*** preparation of test assembly EN 1555-3: 2021 Cl. 8.2 in conjunction with ISO 13953: 2001 ***<Excluding the following>*** preparation of test assembly ISO 8085-2: 2001 Cl. 8 in conjunction with ISO 13953: 2001 ***<Excluding the following>*** preparation of test assembly ISO 4437-3: 2014 Cl. 7.2 in conjunction with ISO 13953: 2001 ***<Excluding the following>*** preparation of test assembly
- Electrofusion assembly of Polyethylene (PE) pipe and fitting for water or gas supply	Evaluation of the ductility of the fusion joint interface of an assembly using strip-bend test	ISO 21751: 2011 ***<Excluding the following>*** preparation of test assembly to ISO 11413

The Hong Kong University of Science & Technology – Health, Safety and Environment Office Laboratory
香港科技大學 – 健康、安全及環境處實驗室

ADDRESS 地址	:	Room 3107, 3/F, Health, Safety & Environment Office Laboratory, The Hong Kong University of Science and Technology, Clear Water Bay, Kowloon, Hong Kong 香港九龍清水灣香港科技大學3樓3107室健康、安全及環境處實驗室
ENQUIRY 查詢	:	Ms. LEUNG Lai-ping, Laboratory Manager 梁麗屏
TELEPHONE 電話	:	2358 6542
FAX 傳真	:	2335 1253
E-MAIL 電郵	:	lpleung@ust.hk
WEBSITE ADDRESS 網址	:	www.ab.ust.hk/hseo/hseolab/index.htm
CLIENTELE 服務對象	:	Conditionally available for public testing 有限度公眾服務

The Hong Kong University of Science & Technology – Health, Safety and Environment Office Laboratory
香港科技大學 – 健康、安全及環境處實驗室

ADDRESS **地址**	:	Room 3107, 3/F, Health, Safety & Environment Office Laboratory, The Hong Kong University of Science and Technology, Clear Water Bay, Kowloon, Hong Kong 香港九龍清水灣香港科技大學 3 樓 3107 室健康、安全及環境處實驗室
ACCREDITED TEST CATEGORY **認可測試類別**	:	Environmental Testing 環境測試

The Hong Kong University of Science & Technology – Health, Safety and Environment Office Laboratory
香港科技大學 – 健康、安全及環境處實驗室

Room 3107, 3/F, Health, Safety & Environment Office Laboratory,
The Hong Kong University of Science and Technology, Clear Water Bay, Kowloon, Hong Kong
香港九龍清水灣香港科技大學 3 樓 3107 室健康、安全及環境處實驗室

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Indoor Air Quality Testing	Microbiological examinations: -	
- Collectate sampled by Single-stage N6 Andersen Sampler or Biostage sampler on agar plates	Airborne bacteria count (uncorrected number of colonies on agar plate) (30 ºC for 2 days)	In-house method PAM027
	Airborne Molds & Yeasts (uncorrected number of colonies on agar plate) (25 ºC for 5 days)	In-house method PAM028
Potable water, Swimming pool water and Decorative water fountain	Heterotrophic Plate Count	APHA 21e 9215 A and 9215 B
Potable water and Swimming pool water	Coliform	In-house method SAM051 (Membrane Filtration Method by CHROMagar)
	E. coli	In-house method SAM051 (Membrane Filtration Method by CHROMagar)

The Hong Kong University of Science & Technology – Health, Safety and Environment Office Laboratory
香港科技大學 – 健康、安全及環境處實驗室

Room 3107, 3/F, Health, Safety & Environment Office Laboratory,
The Hong Kong University of Science and Technology, Clear Water Bay, Kowloon, Hong Kong
香港九龍清水灣香港科技大學 3 樓 3107 室健康、安全及環境處實驗室

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Potable Water	Physical Examinations:-	
	- Total Dissolved Solids dried at 180℃	APHA 17e 2540 C
	- Color	APHA 22e 2120 C
	- Conductivity	APHA 22e 2510 B
	Non-metallic Constituents:-	
	- Fluoride	APHA 21e 4110 B
	- Nitrogen (Nitrate)	APHA 21e 4110 B
	Trace metals (Total recoverable):-	
	- Copper, Zinc, Iron	In-house method SAM032 (ICP-OES)
	Trace metals (Total):-	
	- Antimony, Arsenic, Cadmium, Lead, Nickel, Chromium	In-house method SAM045 (ICP-MS)
	- Mercury	In-house method SAM049 (ICP-MS)
Wastewater	Physical Examinations:-	
	- Total Suspended Solids dried at 103 - 105℃	APHA 17e 2540 D
	- Settleable Solids	APHA 19e 2540 F
	Non-metallic Constituents:-	
	- Nitrogen (TKN+NO_2+NO_3)	APHA 21e 4110 B and 4500-N C
	- Phosphorus (total)	APHA 21e 4500-P B. 5. Persulphate digestion method & 4500-P C.
	- Sulphide	APHA 21e 4500-S^{2-} D & F

The Hong Kong University of Science & Technology – Health, Safety and Environment Office Laboratory
香港科技大學 – 健康、安全及環境處實驗室

Room 3107, 3/F, Health, Safety & Environment Office Laboratory,
The Hong Kong University of Science and Technology, Clear Water Bay, Kowloon, Hong Kong
香港九龍清水灣香港科技大學 3 樓 3107 室健康、安全及環境處實驗室

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Wastewater (cont'd)	Trace metals (Total):-	
	- Arsenic, Lead, Selenium, Cadmium	In-house method SAM052 (microwave digestion and ICP-MS)
	- Mercury	In-house method SAM053 (microwave digestion and ICP-MS)
	Organic Pollutants:-	
	- Chemical Oxygen Demand	In-house method SAM008 (closed reflux, colorimetric)
	- 5-Day Biochemical Oxygen Demand	APHA 21e 5210 A & B
	- Oil & Grease	APHA 21e 5520 A & B
Water and Wastewater	Physical Examinations:-	
	- pH value	In-house method SAM001 (Electrometric)
	- Turbidity	In-house method SAM006 (Nephelometric)
Potable Water and Wastewater	Non-metallic Constituents:-	
	- Sulphate	APHA 21e 4110 B

Drainage Services Department, Laboratory Services Sub-division - Shatin Central Laboratory
渠務署化驗室服務分部 – 沙田中央化驗室

ADDRESS : 1/F, Laboratory Building, Shatin Sewage Treatment Works, 1 Shui Chong Street, Shatin, New Territories, Hong Kong
地址 新界沙田水廠街一號沙田污水處理廠化驗室大樓一樓沙田中央化驗室

ENQUIRY : Dr. MAK Wing-leung, Chemist
查詢 麥詠良博士，化驗師

TELEPHONE : 2684 1044
電話

FAX : 2692 4386
傳真

E-MAIL : wlmak@dsd.gov.hk
電郵

CLIENTELE : Government departments, normally not available for public testing
服務對象 通常只服務政府部門

Drainage Services Department, Laboratory Services Sub-division - Shatin Central Laboratory
渠務署化驗室服務分部 – 沙田中央化驗室

ADDRESS : 1/F, Laboratory Building, Shatin Sewage Treatment Works,
地址 1 Shui Chong Street, Shatin, New Territories, Hong Kong
香港新界沙田水廠街一號沙田污水處理廠化驗室大樓一樓
沙田中央化驗室

ACCREDITED TEST CATEGORY : Environmental Testing 環境測試
認可測試類別

Drainage Services Department, Laboratory Services Sub-division - Shatin Central Laboratory
渠務署化驗室服務分部 – 沙田中央化驗室
1/F, Laboratory Building, Shatin Sewage Treatment Works, 1 Shui Chong Street, Shatin, New Territories, Hong Kong
香港新界沙田水廠街一號沙田污水處理廠化驗室大樓一樓沙田中央化驗室

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Sewage Treatment Plant Final Effluent	Physical Examination :-	
	- Total Suspended Solids dried at 103 - 105℃	APHA 17e 2540D
Water & Wastewater	Physical Examination:-	
	- pH value	APHA 19e 4500-H^+ B
	- Total Suspended Solids dried at 103 - 105℃	In-house method S/SWPA/TSS/03
	- Total Dissolved Solids dried at 180℃	APHA 21e 2540C
	- Conductivity	APHA 21e 2510B
	- Total hardness	APHA 21e 2340C
	- Turbidity	APHA 21e 2130B
	- Colour	In-house method S/SWPA/COL/01
	Non-metallic constituents :-	
	- Nitrogen (Ammonia)	In-house method S/SWPA/NAD/01 (FIA)
	- Nitrogen (Nitrite + Nitrate)	In-house method S/SWPA/NNAD/01 (FIA)
	- Nitrogen (Nitrite)	In-house method S/SWPA/NNID/01 (FIA)
	- Nitrogen (Total Kjeldahl)	In-house method S/SWPA/TNTP/01 (FIA)
	- Total phosphorus	In-house method S/SWPA/TNTP/01 (FIA)
	- Chloride	APHA 21e 4500-Cl^- B

Drainage Services Department, Laboratory Services Sub-division - Shatin Central Laboratory
渠務署化驗室服務分部 – 沙田中央化驗室
1/F, Laboratory Building, Shatin Sewage Treatment Works, 1 Shui Chong Street, Shatin, New Territories, Hong Kong
香港新界沙田水廠街一號沙田污水處理廠化驗室大樓一樓沙田中央化驗室

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Water & Wastewater (cont'd)	Organic Pollutants :-	
	- Biochemical Oxygen Demand	BS EN 1899-1998 Part 1 BS 6068-2.63: 1998 Part 1 In-house method S/SWPA/BAA/01 (By Automatic Analyzer – Skalar Robot)
	- Chemical Oxygen Demand	APHA 20e 5220 C
	Microbial indicator:-	
	- *E. coli* count	The Microbiology of Water 1994 Part 1 – Drinking Water, Report on Public Health and Medical Subject No. 71, Methods for the Examination of Waters and Associated Materials, Standing Committee of Analysts, UK, Sections7.5 and 7.7. Membrane filtration procedure: Section 7.5 and 7.7.5 Bacterial confirmation: in-situ urease test
Solid and Semi-solid Wastewater Sludge	Physical Examination:-	
	- Total Solids Dried at 103 - 105ºC	In-house method S/SWPA/TS/01

Drainage Services Department - Sewage Services Branch Operation Section Laboratory
渠務署 – 污水處理服務科行動組實驗室

ADDRESS 地址 : G/F., Cheung Sha Wan Sewage Pumping Station and Screening Plant, Fat Tseung Street, Cheung Sha Wan, Kowloon, Hong Kong
香港九龍長沙灣發祥街長沙灣污水泵房及隔篩廠地下

ENQUIRY 查詢 : Dr LAW Yuen-chi, Chemist
羅婉芝博士，化驗師

TELEPHONE 電話 : 2159 3472

FAX 傳真 : 3104 6430

E-MAIL 電郵 : yclaw@dsd.gov.hk

CLIENTELE 服務對象 : Government departments, normally not available for public testing
通常只服務政府部門

Drainage Services Department - Sewage Services Branch Operation Section Laboratory
渠務署 – 污水處理服務科行動組實驗室

ADDRESS : G/F., Cheung Sha Wan Sewage Pumping Station and Screening Plant, Fat Tseung Street, Cheung Sha Wan, Kowloon, Hong Kong
地址 香港九龍長沙灣發祥街長沙灣污水泵房及隔篩廠地下

ACCREDITED TEST CATEGORIES : Environmental Testing 環境測試
認可測試類別

Drainage Services Department - Sewage Services Branch Operation Section Laboratory
渠務署 – 污水處理服務科行動組實驗室
G/F., Cheung Sha Wan Sewage Pumping Station and Screening Plant, Fat Tseung Street, Cheung Sha Wan, Kowloon, Hong Kong
香港九龍長沙灣發祥街長沙灣污水泵房及隔篩廠地下

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Water & Wastewater	Non-metallic constituents :-	
	- Chloride	APHA 20e 4500-Cl^- B
	Organic Pollutants :-	
	- Oxygen Demand (Chemical)	APHA 20e 5220B (Open reflux)

CLP Power Hong Kong Ltd. - Generation Central Laboratories
中華電力有限公司 - 發電部綜合實驗室

ADDRESS : Castle Peak Power Station, 1 Lung Yiu Street, Tuen Mun, New Territories, Hong Kong
地址 香港新界屯門龍耀街一號青山發電廠

ENQUIRY : Tsui Yuet Ling, Assistant Manager - Laboratory
查詢 徐月玲小姐，實驗室副經理

TELEPHONE : 2678 5506
電話

FAX : 2678 5473
傳真

E-MAIL : chloe.tsui@clp.com.hk
電郵

CLIENTELE : In-house laboratory, normally not available for public testing
服務對象 內部實驗室，通常只提供內部服務

CLP Power Hong Kong Ltd. - Generation Central Laboratories
中華電力有限公司 – 發電部綜合實驗室

ADDRESS **地址**	:	Castle Peak Power Station, 1 Lung Yiu Street, Tuen Mun, New Territories, Hong Kong 香港新界屯門龍耀街一號青山發電廠
ACCREDITED TEST CATEGORY **認可測試類別**	:	Construction Materials 建築材料 Environmental Testing 環境測試

CLP Power Hong Kong Ltd. - Generation Central Laboratories
中華電力有限公司 – 發電部綜合實驗室
Castle Peak Power Station, 1 Lung Yiu Street, Tuen Mun, New Territories, Hong Kong
香港新界屯門龍耀街一號青山發電廠

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Pulverized fuel ash	Moisture content	BS 3892 : Part 1 : 1997 Annex C
	Fineness	BS 3892 : Part 1 : 1997 Annex D In-house method SOP-A-07 BS EN 451-2 : 2017
	Water requirement	BS 3892 : Part 1 : 1997 Annex E
Pulverized fuel ash (Chemical analysis)	Loss on ignition (L.O.I.)	BS 3892 : Part 1 : 1997 Cl. 12.2 & BS EN196-2:1995 Cl. 7 (using 1 hour ignition time) BS EN 196-2:2005 (using 1 hour ignition time)
	Calcium oxide content (CaO)	In-house method SOP-A-11
	Magnesium oxide content (MgO)	In-house method SOP-A-11
	Chloride content	BS EN 196 - 21 : 1992 Cl. 4
	Nitric-acid soluble alkali content (equivalent Na_2O)	In-house method SOP-A-12
	Total alkali content (equivalent Na_2O)	In-house method SOP-A-14
	Sulphur content (as SO_3)	ASTM D5016-95

CLP Power Hong Kong Ltd. - Generation Central Laboratories
中華電力有限公司 – 發電部綜合實驗室
Castle Peak Power Station, 1 Lung Yiu Street, Tuen Mun, New Territories, Hong Kong
香港新界屯門龍耀街一號青山發電廠

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Coal	Physical Examination:-	
	- Gross calorific value	In-house method SOP-F-17 (automated bomb calorimeter)
Water and Wastewater	Physical Examination:-	
	- pH value	APHA 23e 4500-H^+B
	- Total Suspended Solids Dried at 103-105℃	APHA 17e 2540D
	Non-metallic Constituents:-	
	- Nitrogen (Ammonia)	In-house method SOP-W-04 (ISE)
	Organic Pollutants:-	
	- Biochemical Oxygen Demand	BS 6068 : Section 2.14 : 1990
	- Chemical Oxygen Demand	In-house method SOP-W-05 (Closed Reflux)

Facadetech Laboratory Ltd.

ADDRESS 地址	:	R.P.D.D. 77, Lot 938, Ping Che Road, Fanling, New Territories, Hong Kong 香港新界粉嶺坪輋路 77 約 938 地段
ENQUIRY 查詢	:	Mr YU Hung-ho, Laboratory Manager 余洪濠先生，試驗所經理
TELEPHONE 電話	:	2659 2083
FAX 傳真	:	2402 9332
E-MAIL 電郵	:	email@flab.com.hk
CLIENTELE 服務對象	:	Public 公眾

Facadetech Laboratory Ltd.

ADDRESS **地址**	:	R.P.D.D. 77, Lot 938, Ping Che Road, Fanling, New Territories, Hong Kong 香港新界粉嶺坪輋路 77 約 938 地段
ACCREDITED TEST CATEGORY **認可測試類別**	:	Construction Materials 建築材料

Facadetech Laboratory Ltd.

R.P.D.D. 77, Lot 938, Ping Che Road, Fanling, New Territories, Hong Kong
香港新界粉嶺坪輋路 77 約 938 地段

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Curtain walls	Air leakage rate	ASTM E283-04 (Reapproved 2012)
	Cyclic safety test for curtain wall system	Buildings Department APP-37 (May 2012) App. B Buildings Department Code of Practice for Structural Use of Glass (2018) Table 8.1
	Static test to seismic and wind interstory drifts	AAMA501.4: 2018
	Structural performance by uniform static air pressure difference	ASTM E330-14 ASTM E330-14 (reapproved 2021)
	Water penetration by cyclic static air pressure difference	ASTM E547-00 (Reapproved 2016)
	Water penetration by dynamic pressure	AAMA 501.1: 2017
	Water penetration by uniform static air pressure difference	ASTM E331-00 (Reapproved 2016) ASTM E331-00 (Reapproved 2023)
Dimension stones	Absorption and bulk specific gravity	ASTM C97-18
	Artificial aging	Buildings Department PNAP APP-16 (Dec 2021) App. B.3 .(a) & (b)
	Compressive strength	ASTM C170-17 ASTM C170-24
	Flexural strength	ASTM C880-18 ASTM C880-24
	Modulus of rupture	ASTM C99-18
	Strength of individual stone anchorage	ASTM C1354-15 ASTM C1354-22

Facadetech Laboratory Ltd.

R.P.D.D. 77, Lot 938, Ping Che Road, Fanling, New Territories, Hong Kong
香港新界粉嶺坪輋路 77 約 938 地段

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Glass	Bending strength of glass	BS EN 1288-3: 2000
	Bending strength of laminated glass at elevated temperature 50℃	Buildings Department Code of Practice for Structural Use of Glass (2018) Annex B1
	Boil test of laminated glass	ANSI Z97.1: 2015 (R2020) Cl. 5.3.2, 5.3.2(1) & 5.3.3
	Fragmentation test of heat soaked thermally toughened soda lime silicate safety glass	BS EN 14179-1: 2016 Section 10
	Impact test of glass	BS 6206: 1981
	Non-destructive photoelastic measurement of surface stresses in annealed, heat-strengthened and fully tempered flat glass	ASTM C1279-13 (Reapproved 2019) excluding Cl. 15.2 & 16.2 ASTM C1279-23 excluding Cl. 15.2 & 16.2
Structural fixings (spiders)	Proof load test of spiders in the force range 1 kN – 50 kN	In-house method TM17 in conjunction with the following specification(s) Buildings Department Code of Practice for the Structural Use of Steel (2011) Cl. 16.2.1 Buildings Department Code of Practice for the Structural Use of Steel 2011 (2023) Cl. 16.2.1

A.E.S. Destructive and Non-Destructive Testing Limited
安捷材料試驗有限公司

ADDRESS : Flat F, 2/F, Block 2, Kwai Tak Industrial Centre, 15-33 Kwai Tak Street, Kwai Chung, New Territories, Hong Kong
地址 香港新界葵涌葵德街15-33葵德工業中心第二座二字樓F

ENQUIRY : Mr Terrence KWOK Cheuk-lun, Quality Manager
查詢 郭卓麟先生，品質管理經理

TELEPHONE : 2422 6898
電話

FAX : 2419 1137
傳真

E-MAIL : terrence@aes.hk
電郵

WEBSITE ADDRESS : www.aes.hk
網址

CLIENTELE : Public
服務對象 公眾

A.E.S. Destructive and Non-Destructive Testing Limited
安捷材料試驗有限公司

ADDRESS
地址

Main laboratory	:	Flat F, 2/F, Block 2, Kwai Tak Industrial Centre, 15-33 Kwai Tak Street, Kwai Chung, New Territories, Hong Kong 香港新界葵涌葵德街 15-33 葵德工業中心第二座二字樓 F
Test location	:	Flat 9, G/F, Block 2, Golden Industrial Building, 16-26 Kwai Tak Street, Kwai Chung, New Territories, Hong Kong 香港新界葵涌葵德街 16-26 金德工業大厦第二座地下 9 號
ACCREDITED TEST CATEGORIES **認可測試類別**	:	Calibration Services 校正服務 Construction Materials 建築材料

A.E.S. Destructive and Non-Destructive Testing Limited
安捷材料試驗有限公司

Flat 9, G/F, Block 2, Golden Industrial Building, 16-26 Kwai Tak Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌葵德街 16-26 金德工業大厦第二座地下 9 號

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Construction materials testing equipment		
- Welding gauge used for measuring the dimension of joint before and after welding	Calibration in accordance with in-house method OP-55 for the following parameters :	
	Length scale: 0 mm to 60 mm	0.5 mm
	Scale measuring bevel angle: 0° to 60°	1.2°
	Scale measuring gap width: 2 mm to 5 mm	0.06 mm
	Scale measuring high low, weld cap and leg length: 0 mm to 25 mm	0.5 mm
	Scale measuring undercut depth: 0 mm to 25 mm	0.5 mm
	Scale measuring weld throat: 0 mm to 15mm	0.5 mm

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

A.E.S. Destructive and Non-Destructive Testing Limited
安捷材料試驗有限公司
Flat 9, G/F, Block 2, Golden Industrial Building, 16-26 Kwai Tak Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌葵德街 16-26 金德工業大廈第二座地下 9 號

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related quantities		
- Length		
- Coating thickness gauge	Calibration for thickness in accordance with in-house method OP-75 over the following range :	
	14.5 μm to 1433.5 μm	0.6 μm to 7.4 μm
- Dial calliper	Calibration for length in accordance with in-house method OP-27 over the following ranges :	
	External: 0 mm to 300 mm	13 μm
	Internal: 0 mm to 300 mm	13 μm
- Digital calliper	Calibration for length in accordance with in-house method OP-27 over the following ranges :	
	External: 0 mm to 300 mm	10 μm
	Internal: 0 mm to 300 mm	10 μm
- Vernier calliper	Calibration for length in accordance with Cl. B1 of BS 887: 1982 over the following range :	
	External: 0 mm to 300 mm	31 μm
	Internal: 0 mm to 300 mm	31 μm
- Dial gauge	Calibration for length using micrometer head in accordance with Cl. B3 of BS 907: 2008 over the following range :	
	0 mm to 50 mm	7 μm
	Calibration for length using micrometer head and gauge block in accordance with in-house method OP-19 over the following range :	
	0 mm to 100 mm	12 μm

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

A.E.S. Destructive and Non-Destructive Testing Limited
安捷材料試驗有限公司

Flat 9, G/F, Block 2, Golden Industrial Building, 16-26 Kwai Tak Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌葵德街 16-26 金德工業大厦第二座地下 9 號

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Length and related quantities (cont'd)		
- Length (cont'd)		
- Displacement measuring device	Calibration for length using micrometer head and gauge block in accordance with in-house method OP-84 over the following range :	
	0 mm to 100 mm	12 μm
- External micrometer	Calibration for length in accordance with Annex A of BS 870: 2008 over the following range :	
	0 mm to 25 mm	2 μm
- Extensometer		
- Grade B, C and D for gauge length from 25 mm to 150 mm	On-site calibration for displacement using calibration rig and verification of grade in accordance with BS 3846: 1970 over the following range :	
	0.025 mm to 1.5 mm	2.3 μm
- Class 1 for gauge length from 25 mm to 200 mm	On-site calibration for displacement using calibration rig and verification of class in accordance with BS EN 10002-4: 1995 over the following range :	
	0.035 mm to 2 mm	1.5 μm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

A.E.S. Destructive and Non-Destructive Testing Limited
安捷材料試驗有限公司
Flat 9, G/F, Block 2, Golden Industrial Building, 16-26 Kwai Tak Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌葵德街 16-26 金德工業大厦第二座地下 9 號

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related quantities (cont'd)		
- Length (cont'd)		
- Extensometer (cont'd)		
- Class 1 for gauge length from 25 mm to 200 mm	On-site calibration for displacement using calibration rig and verification of class in accordance with ISO 9513: 2012 over the following range :	
	0.035 mm to 2.8 mm	1.5 µm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

A.E.S. Destructive and Non-Destructive Testing Limited
安捷材料試驗有限公司

Flat 9, G/F, Block 2, Golden Industrial Building, 16-26 Kwai Tak Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌葵德街 16-26 金德工業大厦第二座地下 9 號

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities		
- Weight and Balance		
- Balance	Calibration for mass using following OIML Class standard weights (1) F1 weights from 1 mg to 70 kg in accordance with in-house method OP-69 over the following range :	
	1 g to 6 kg	0.001 g to 1 g
	above 6 kg to 70 kg	1 g to 10 g
	On-site calibration for mass using following OIML Class standard weights (1) F1 weights from 1 mg to 70 kg in accordance with in-house method OP-69 over the following range :	
	1 g to 6 kg	0.0001 g to 0.1 g
	above 6 kg to 70 kg	0.1 g to 10 g
- Force		
- Force measuring device for pile test - load cell - load cell with hydraulic jack	Calibration for force in accordance with in-house method OP-18 over the following range :	
	300 kN to 16000 kN	0.6 % of reading
- Force measuring instrument in compression mode	Calibration for force in accordance with in-house method OP-17 over the following range :	
	1 kN to 1500 kN	0.5 % of reading

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

A.E.S. Destructive and Non-Destructive Testing Limited
安捷材料試驗有限公司
Flat 9, G/F, Block 2, Golden Industrial Building, 16-26 Kwai Tak Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌葵德街 16-26 金德工業大厦第二座地下 9 號

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities (cont'd)		
- Force (cont'd)		
- Universal testing machine in compression mode	On-site calibration for compressive force using Grade 1.0 load cells and verification of grade in accordance with BS 1610: Part 1: 1992 over the following range :	
	3 kN to 2000 kN	0.3 % of reading
	On-site calibration for compressive force using Class 1 load cells and verification of class in accordance with BS EN ISO 7500-1: 1999 over the following range :	
	0.4 kN to 2000 kN	0.3 % of reading
	On-site calibration for compressive force using Class 1 load cells and verification of class in accordance with BS EN ISO 7500-1: 2004 over the following range :	
	0.4 kN to 2000 kN	0.3 % of reading
	On-site calibration for compressive force using Class 1 load cells and verification of class in accordance with BS EN ISO 7500-1: 2015 over the following range :	
	0.4 kN to 2000 kN	0.3 % of reading

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

A.E.S. Destructive and Non-Destructive Testing Limited
安捷材料試驗有限公司

Flat 9, G/F, Block 2, Golden Industrial Building, 16-26 Kwai Tak Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌葵德街 16-26 金德工業大厦第二座地下 9 號

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities (cont'd)		
- Force (cont'd)		
- Universal testing machine in compression mode (cont'd)	On-site calibration for compressive force using Class 1 load cells and verification of class in accordance with BS EN ISO 7500-1: 2018 over the following range :	
	0.4 kN to 2000 kN	0.3 % of reading
	On-site calibration for compressive force using Class A force measuring instruments and verification of class in accordance with ASTM E4: 2020 over the following range :	
	0.4 kN to 2000 kN	0.3% of reading
- Charpy V-notch Impact tester	On-site indirect verification in accordance with BS EN 10045-2: 1993 (Cl. 6) or BS EN ISO 148-2: 2008 (Cl. 7) or BS EN ISO 148-2: 2016 (Cl. 7) over the following two absorbed energy levels :	
	19.8 J to 40 J	2 J
	above 40 J to 230 J	12 J

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

A.E.S. Destructive and Non-Destructive Testing Limited
安捷材料試驗有限公司

Flat 9, G/F, Block 2, Golden Industrial Building, 16-26 Kwai Tak Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌葵德街 16-26 金德工業大厦第二座地下 9 號

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities (cont'd)		
- Hardness		
- Hardness testing machine	On-site indirect calibration for testing machine for Vickers hardness scales in accordance with BS EN ISO 6507-2: 1998 or BS EN ISO 6507-2: 2005 or BS EN ISO 6507-2: 2018 over the following hardness ranges :	
	107 HV 5 to 804 HV 5	1.6 %
	99 HV 10 to 901 HV 10	1.5 %
	206 HV 30 to 955 HV 30	1.3 %

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

A.E.S. Destructive and Non-Destructive Testing Limited
安捷材料試驗有限公司

Flat 9, G/F, Block 2, Golden Industrial Building, 16-26 Kwai Tak Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌葵德街 16-26 金德工業大廈第二座地下 9 號

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities (cont'd)		
- Pressure		
- Hydraulic pressure indicating instrument and gauge	Calibration for hydraulic pressure in accordance with in-house method OP-1 using deadweight tester (oil as pressure medium) over the following ranges :	
	20 kPa to 1000 kPa	2 kPa
	above 1 MPa to 110 MPa	0.05 % of reading
	Calibration for hydraulic pressure in accordance with in-house method OP-1 using digital pressure calibrator over the following ranges :	
	20 kPa to 250 kPa (water as pressure medium)	1 kPa
	above 0.25 MPa to 20.6 MPa (water as pressure medium)	0.4 % of reading
	20 kPa to 250 kPa (mineral oil as pressure medium)	1 kPa
	above 0.25 MPa to 70 MPa (mineral oil as pressure medium)	0.4 % of reading
- Gas pressure indicating instrument and gauge	Calibration for gauge pressure in accordance with in-house method OP-1 using digital pressure calibrator (nitrogen as pressure medium) over the following ranges :	
	-100 kPa to 250 kPa	1 kPa
	above 250 kPa to 2000 kPa	0.4 % of reading

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

A.E.S. Destructive and Non-Destructive Testing Limited
安捷材料試驗有限公司
Flat 9, G/F, Block 2, Golden Industrial Building, 16-26 Kwai Tak Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌葵德街 16-26 金德工業大厦第二座地下 9 號

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities (cont'd)		
- Torque		
- Torque wrench	Calibration for torque in accordance with BS EN ISO 6789-1: 2017 over the following ranges:	
	1.8 N·m to 200 N·m	0.9 N·m
	above 200 N·m to 1000 N·m	12.2 N·m
	Calibration for torque in accordance with in-house method OP-2 over the following ranges:	
	1.8 N·m to 200 N·m	0.9 N·m
	above 200 N·m to 1000 N·m	12.2 N·m

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

A.E.S. Destructive and Non-Destructive Testing Limited
安捷材料試驗有限公司
Flat 9, G/F, Block 2, Golden Industrial Building, 16-26 Kwai Tak Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌葵德街 16-26 金德工業大廈第二座地下 9 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Curtain walls & cladding (fixing components)	Proof load test of spiders & glass fixing components in the force range 1 kN - 100 kN	Buildings Department Code of Practice for the Structural Use of Steel (2005) Cl. 16.2 Buildings Department Code of Practice for the Structural Use of Steel (2011) Cl. 16.2 In-house method OP-70
Metallic materials	Bend test of metallic materials	BS 1639: 1964 BS EN ISO 7438: 2000 BS EN ISO 7438: 2016 BS EN ISO 7438: 2020
	Breaking force test of steel wire ropes in the force range of 5 kN to 1500 kN	BS EN 12385-1: 2002 +A1: 2008 Cl. 6.4.1 BS EN 12385-1: 2002 +A1: 2008 Cl. 6.4.1 with modifications in conjunction with the following specification(s): BS EN 12385-4: 2002 + A1: 2008 BS EN 12385-5: 2002 BS EN 12385-5: 2021 BS EN 12385-6: 2004 BS EN 12385-7: 2002 BS EN 12385-8: 2002 BS EN 12385-9: 2002 BS EN 12385-10: 2003 + A1: 2008 ISO 4344: 2004 ISO 4344: 2022
	Charpy V-notch impact test	BS EN 10045-1: 1990 BS EN ISO 148-1: 2010 BS EN ISO 148-1: 2016 ISO 148-1: 2009 in conjunction with the following specification(s): BS EN 10021: 2006 Cl. 8.3.4.1 BS EN 10025-1: 2004 Cl. 10.2.2 BS EN 10025-2: 2004 Cl. 10.2 BS EN 10025-2: 2019 Cl. 10.2 BS EN 10025-3: 2004 Cl. 10.2 BS EN 10025-3: 2019 Cl. 10.2 BS EN 10025-4: 2004 Cl. 10.2 BS EN 10025-4: 2019 Cl. 10.2 BS EN 10025-5: 2004 Cl. 10.2 BS EN 10025-5: 2019 Cl. 10.2 BS EN 10025-6: 2004 + A1: 2009 Cl. 10.2 BS EN 10025-6: 2019 Cl. 10.2 BS EN 10210-1: 2006 Cl. 9.2.3

A.E.S. Destructive and Non-Destructive Testing Limited
安捷材料試驗有限公司

Flat 9, G/F, Block 2, Golden Industrial Building, 16-26 Kwai Tak Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌葵德街 16-26 金德工業大廈第二座地下 9 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Metallic materials (cont'd)	Tensile test of metallic materials in the force range of 5 kN to 1500 kN	ASTM E8M-01 ASTM E8/E8M-21 BS 18: 1987 BS EN 10002-1: 2001 BS EN ISO 6892-1: 2009 BS EN ISO 6892-1: 2016 BS EN ISO 6892-1: 2019 ISO 6892-1: 2009 ISO 6892-1: 2016 ISO 6892-1: 2019 in conjunction with the following specification(s): BS 4360: 1990 Cl. 23 BS EN 10021: 2006 Cl. 8.3.4.1 BS EN 10025: 1990 Cl. 8.7.2.1 BS EN 10025-1: 2004 Cl. 10.2.1 BS EN 10025-2: 2004 Cl. 10.2 BS EN 10025-2: 2019 Cl. 10.2 BS EN 10025-3: 2004 Cl. 10.2 BS EN 10025-3: 2019 Cl. 10.2 BS EN 10025-4: 2004 Cl. 10.2 BS EN 10025-4: 2019 Cl. 10.2 BS EN 10025-5: 2004 Cl. 10.2 BS EN 10025-5: 2019 Cl. 10.2 BS EN 10025-6: 2004 + A1: 2009 Cl. 10.2 BS EN 10025-6: 2019 Cl. 10.2 BS EN 10113-1: 1993 Cl. 8.6.2.1 BS EN 10113-2: 1993 Cl. 8.6 BS EN 10113-3: 1993 Cl. 8.6 BS EN 10137-1: 1996 Cl. 8.6.2.1 BS EN 10137-2: 1996 Cl. 8.6 BS EN 10137-3: 1996 Cl. 8.6 BS EN 10155: 1993 Cl. 8.7.2.1 BS EN 10210-1: 2006 Cl. 9.2.2
	Vickers hardness test of metallic materials in the scales of HV5, HV10 and HV30	BS 427: 1990 BS EN 23878: 1993 BS EN ISO 6507-1: 1998 BS EN ISO 6507-1: 2005 BS EN ISO 6507-1: 2018 BS EN ISO 6507-1: 2023

A.E.S. Destructive and Non-Destructive Testing Limited
安捷材料試驗有限公司
Flat 9, G/F, Block 2, Golden Industrial Building, 16-26 Kwai Tak Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌葵德街 16-26 金德工業大廈第二座地下 9 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Metallic materials (cont'd)	Charpy impact test of fasteners using V-notch test pieces	BS EN 10045-1: 1990 BS EN ISO 148-1: 2010 BS EN ISO 148-1: 2016 in conjunction with the following specification(s): BS EN 14399-1: 2005 Cl. 5.3 BS EN 14399-1: 2015 Cl. 5.3 BS EN 14399-3: 2005 Cl. 3.2 BS EN 14399-3: 2015 Cl. 3.2 BS EN 14399-4: 2005 Cl. 3.2 BS EN 14399-4: 2015 Cl. 3.2 BS EN 14399-7: 2007 + A1: 2010 Cl. 4.3 BS EN 14399-8: 2007 + A1: 2010 Cl. 4.3 BS EN 14399-10: 2009 Cl. 4.2 BS EN 14399-7: 2018 Cl. 3.2 BS EN 14399-8: 2018 Cl. 3.2 BS EN 14399-10: 2018 Cl. 4.2 BS EN 15048-1: 2007 Cl. 5.3 BS EN 15048-1: 2016 Cl. 5.3 BS EN ISO 898-1: 2009 Cl. 9.14 BS EN ISO 898-1: 2013 Cl. 9.14
	Proof load test of fasteners in the force range of 5 kN to 1500 kN	BS EN ISO 898-1: 1999 Cl. 8.5 BS EN ISO 898-1: 2009 Cl. 9.6 BS EN ISO 898-1: 2013 Cl. 9.6 in conjunction with the following specification(s): BS 3692: 2001 Cl. 19.2 BS 3692: 2014 Cl. 21 BS 4190: 2001 Cl. 15.2 BS 4190: 2014 Cl. 15.2 BS EN 14399-1: 2005 Cl. 5.3 BS EN 14399-1: 2015 Cl. 5.3 BS EN 14399-3: 2005 Cl. 3.2 BS EN 14399-3: 2015 Cl. 3.2 BS EN 14399-4: 2005 Cl. 3.2 BS EN 14399-4: 2015 Cl. 3.2 BS EN 14399-7: 2007 + A1: 2010 Cl. 4.3 BS EN 14399-8: 2007 + A1: 2010 Cl. 4.3 BS EN 14399-10: 2009 Cl. 4.2 BS EN 14399-7: 2018 Cl. 3.2 BS EN 14399-8: 2018 Cl. 3.2 BS EN 14399-10: 2018 Cl. 4.2 BS EN 15048-1: 2007 Cl. 5.3 BS EN 15048-1: 2016 Cl. 5.3

A.E.S. Destructive and Non-Destructive Testing Limited
安捷材料試驗有限公司
Flat 9, G/F, Block 2, Golden Industrial Building, 16-26 Kwai Tak Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌葵德街 16-26 金德工業大厦第二座地下 9 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Metallic materials (cont'd)	Tensile test of fasteners in the force range of 5 kN to 1500 kN	BS EN 10002-1: 2001 BS EN ISO 3506-1: 1998, BS EN 10002-1: 2001 BS EN ISO 3506-1: 2009 BS EN ISO 3506-1: 2020 BS EN ISO 6892-1: 2009 BS EN ISO 6892-1: 2016 BS EN ISO 6892-1: 2019 BS EN ISO 898-1: 1999, BS EN 10002-1: 2001 BS EN ISO 898-1: 2013, BS EN ISO 6892-1: 2016 in conjunction with the following specification(s): BS 3692: 2001 Cl. 19.2 BS 3692: 2014 Cl. 21 BS 4190: 2001 Cl. 15.2 BS 4190: 2014 Cl. 15.2 BS EN 14399-1: 2005 Cl. 5.3 BS EN 14399-1: 2015 Cl. 5.3 BS EN 14399-3: 2005 Cl. 3.2 BS EN 14399-3: 2015 Cl. 3.2 BS EN 14399-4: 2005 Cl. 3.2 BS EN 14399-4: 2015 Cl. 3.2 BS EN 14399-7: 2007 + A1: 2010 Cl. 4.3 BS EN 14399-7: 2018 Cl. 3.2 BS EN 14399-8: 2007 + A1: 2010 Cl. 4.3 BS EN 14399-8: 2018 Cl. 3.2 BS EN 14399-10: 2009 Cl. 4.2 BS EN 14399-10: 2018 Cl. 4.2 BS EN 15048-1: 2007 Cl. 5.3 BS EN 15048-1: 2016 Cl. 5.3 BS EN ISO 3506-1: 1998 Cl. 6.2.2, 6.2.3 & 6.2.4 BS EN ISO 3506-1: 2009 Cl. 7.2 BS EN ISO 3506-1: 2020 Cl. 9.1 BS EN ISO 898-1: 1999 Cl. 8.1 & 8.2 BS EN ISO 898-1: 2009 Cl. 9.2, 9.3, 9.4, 9.5 & 9.7 BS EN ISO 898-1: 2013 Cl. 9.2, 9.3, 9.4, 9.5 & 9.7
	Tensile test of fastener/nut assemblies in the force range of 5 kN to 1500 kN	BS EN 15048-2: 2007 Cl. 5 BS EN 15048-2: 2016 Cl. 6

A.E.S. Destructive and Non-Destructive Testing Limited
安捷材料試驗有限公司
Flat 9, G/F, Block 2, Golden Industrial Building, 16-26 Kwai Tak Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌葵德街 16-26 金德工業大厦第二座地下 9 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Metallic materials (cont'd)	Proof load test of steel nuts in the force range 5 kN to 1500 kN	BS 3692: 2001 Annex C.1 BS 3692: 2014 Annex C.1 BS 4190: 2001 Annex A.1 BS 4190: 2014 Annex A.1 BS EN 20898-2: 1994 Cl. 5-7 & 8.1 BS EN ISO 898-2: 2012 Cl. 9.1 BS EN ISO 898-2: 2022 Cl. 10.1 BS EN ISO 898-6: 1996 Cl. 8.1 in conjunction with the following specification(s): BS EN 14399-1: 2005 Cl. 5.3 BS EN 14399-1: 2015 Cl. 5.3 BS EN 14399-3: 2005 Cl. 4.2 BS EN 14399-3: 2015 Cl. 4.2 BS EN 14399-4: 2005 Cl. 4.2 BS EN 14399-4: 2015 Cl. 4.2 BS EN 14399-7: 2007 + A1: 2010 Cl. 5.2 BS EN 14399-7: 2018 Cl. 4.2 BS EN 14399-8: 2007 + A1: 2010 Cl. 5.2 BS EN 14399-8: 2018 Cl. 4.2 BS EN 14399-10: 2009 Cl. 5.2 BS EN 14399-10: 2018 Cl. 5.2 BS EN 15048-1: 2007 Cl. 5.3 BS EN 15048-1: 2016 Cl. 5.3
	Proof load test of stainless steel nuts in the force range 5 kN to 1500 kN	BS EN 20898-2: 1994 Cl. 5-7 & 8.1 BS EN ISO 898-2: 2012 Cl. 9.1 BS EN ISO 898-2: 2022 Cl. 10.1 BS EN ISO 898-6: 1996 Cl. 8.1 BS EN ISO 3506-2: 2020 Cl.10.1 in conjunction with the following specification(s): BS EN ISO 3506-2: 1998 Cl. 5 BS EN ISO 3506-2: 2009 Cl. 6
	Through thickness tensile test of metallic materials in the force range of 5 kN to 1500 kN	BS EN 10164: 2018 Cl. 9.1 BS EN ISO 6892-1: 2019

A.E.S. Destructive and Non-Destructive Testing Limited
安捷材料試驗有限公司
Flat 9, G/F, Block 2, Golden Industrial Building, 16-26 Kwai Tak Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌葵德街 16-26 金德工業大廈第二座地下 9 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Welds (destructive)	Bend test on welds in metallic materials	BS 4872: Part 1: 1982 Cl. 19.2 & 19.3 BS EN 910: 1996 BS EN ISO 5173: 2010 + A1: 2011 BS EN ISO 5173: 2023
	Charpy V-notch impact test on welds in metallic materials	BS EN 10045-1: 1990 BS EN ISO 148-1: 2010 BS EN ISO 148-1: 2016 in conjunction with the following specification(s): BS EN 875: 1995 BS EN ISO 9016: 2012 BS EN ISO 9016: 2022
	Cruciform test on welds in metallic materials	BS 709: 1983 (A1, A2 & A3) Cl. 5.2
	Fracture test on welds in metallic materials	BS 709: 1983 (A1, A2 & A3) Cl. 8 BS 4872: Part 1: 1982 Cl. 19.4 & 19.5 BS EN 1320: 1997 BS EN ISO 9017: 2013 BS EN ISO 9017: 2018
	Vickers hardness test on welds in metallic materials in the scale of HV5 and HV10	BS EN ISO 6507-1: 2005 BS EN ISO 6507-1: 2018 BS EN ISO 6507-1: 2023 in conjunction with the following specification(s): BS EN 1043-1: 1996 BS EN ISO 9015-1: 2011
	Macroscopic examination on welds in metallic materials	BS 4872-1: 1982 Cl. 19.1 BS 7123: 1989 Cl. 12.3.6 BS EN 1321: 1997 BS EN ISO 17639: 2013 BS EN ISO 17639: 2022 BS EN ISO 14555: 2017 Cl. 11.6

A.E.S. Destructive and Non-Destructive Testing Limited
安捷材料試驗有限公司
Flat 9, G/F, Block 2, Golden Industrial Building, 16-26 Kwai Tak Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌葵德街 16-26 金德工業大厦第二座地下 9 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Welds (destructive) (cont'd)	Tensile test on welds in metallic materials in the force range of 5 kN to 1500 kN	BS 7123: 1989 Cl. 12.3.5 BS EN 10002-1: 2001 BS EN ISO 6892-1: 2009 BS EN ISO 6892-1: 2016 BS EN ISO 6892-1: 2019 in conjunction with the following specification(s): BS EN 876: 1995 BS EN 895: 1995 BS EN ISO 4136: 2012 BS EN ISO 4136: 2022 BS EN ISO 5178: 2011 BS EN ISO 5178: 2019 BS EN ISO 14555: 2017 Cl. 11.4

A.E.S. Destructive and Non-Destructive Testing Limited
安捷材料試驗有限公司

Flat F, 2/F, Block 2, Kwai Tak Industrial Centre, 15-33 Kwai Tak Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌葵德街 15-33 葵德工業中心第二座二字樓 F

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Metallic materials (non-destructive)	Ultrasonic test of metallic materials	ASME BPVC Sec V : 2017 Article 5 BS 5996: 1993 BS EN 10160: 1999
Metallic materials & non-metallic materials (non-destructive)	Ultrasonic thickness measurement of metallic materials and non-metallic materials	BS EN 14127: 2004 (Mode 1, 3 & 4) BS EN 14127: 2011 (Mode 1, 3 & 4) BS EN ISO 16809: 2019 (Mode 1, 3 & 4)
Structural fixings	Tensile proof load test of drilled-in anchors used for cantilevered structure/hanger/curtain wall remedial works by incremental loading in the force range 1 kN – 600 kN	Buildings Department PNAP APP-169 (Oct 2023) App. A
	Tensile proof load test of drilled-in anchors used for works other than cantilevered structure/ hanger/curtain wall remedial works in the force range 1 kN – 600 kN	Buildings Department PNAP APP-169 (Oct 2023) App. B
	Tensile proof load test for cementitious or polymer based grouted bolts or dowels or reinforcing bars works or/and steel T-bolts with cast-in channels in the force range 1 kN – 400 kN	Buildings Department PNAP APP-169 (Oct 2023) App. C

A.E.S. Destructive and Non-Destructive Testing Limited
安捷材料試驗有限公司

Flat F, 2/F, Block 2, Kwai Tak Industrial Centre, 15-33 Kwai Tak Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌葵德街 15-33 葵德工業中心第二座二字樓 F

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Welds (non-destructive)	Liquid penetrant test (Colour contrast method)	ASTM E165/E165M-12 ASTM E165/E165M-18 ASME BPVC Sec V : 2017 Article 6 BS 6443: 1984 BS EN 571-1: 1997 BS EN ISO 3452-1: 2013 BS EN ISO 3452-1: 2021 in conjunction with the following specification(s): API 1104: 2013 (21st Ed.) Cl. 9 ASME B31.1: 2020 Cl. 136.4.1 – 136.4.6 AWS D1.1/D1.1M: 2015 Cl. 6 Part C AWS D1.1/D1.1M: 2020 Cl. 8 Part C BS 2633: 1987 Section 8 BS 2971: 1991 Section 7 BS 4515: Part 1: 2009 Table 9 BS 5135: 1984 App. H Table 18 & 19 BS EN 1011-8: 2018 Table A.2 BS EN 13480-5: 2002 Table 8.4-2 BS EN ISO 5817: 2003 Table 1 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 BS EN ISO 5817: 2023 Table 1 BS EN ISO 10042: 2018 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2005) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b

A.E.S. Destructive and Non-Destructive Testing Limited
安捷材料試驗有限公司
Flat F, 2/F, Block 2, Kwai Tak Industrial Centre, 15-33 Kwai Tak Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌葵德街 15-33 葵德工業中心第二座二字樓 F

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Welds (non-destructive) (cont'd)	Magnetic particle test (Magnetic flow method, colour contrast technique using permanent magnets, D.C. & A.C. yokes)	ASTM E709-15 ASME BPVC Sec V : 2017 Article 7 BS 6072: 1981 (1986) BS EN 1290: 1998 BS EN ISO 9934-1: 2001 BS EN ISO 9934-1: 2015 BS EN ISO 9934-1: 2016 BS EN ISO 17638: 2009 BS EN ISO 17638: 2016 in conjunction with the following specification(s): API 1104: 2013 (21st Ed.) Cl. 9 ASME B31.1: 2020 Cl. 136.4.1 – 136.4.6 AWS D1.1/D1.1M: 2015 Cl. 6 Part C AWS D1.1/D1.1M: 2020 Cl. 8 Part C BS 2633: 1987 Section 8 BS 2971: 1991 Section 7 BS 4515: Part 1: 2009 Table 9 BS 5135: 1984 App. H Table 18 & 19 BS EN 1011-8: 2018 Table A.2 BS EN ISO 23278: 2015 Table 1 & Cl. 5 BS EN ISO 5817: 2003 Table 1 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 BS EN ISO 5817: 2023 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2005) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b

A.E.S. Destructive and Non-Destructive Testing Limited
安捷材料試驗有限公司
Flat F, 2/F, Block 2, Kwai Tak Industrial Centre, 15-33 Kwai Tak Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌葵德街 15-33 葵德工業中心第二座二字樓 F

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Welds (non-destructive) (cont'd)	Radiographic examination (Gamma Ray and X-ray)	ASME BPVC Sec V : 2017 Article 2 BS EN 1435: 1997 BS 2600: Part 1: 1983 BS 2910: 1986 BS EN ISO 17636-1: 2013 BS EN ISO 17636-1: 2022 in conjunction with the following specification(s): API 1104: 2013 (21st Ed.) Cl. 9 ASME B31.1: 2020 Cl. 136.4.1 – 136.4.6 AWS D1.1/D1.1M: 2015 Cl. 6 Part C AWS D1.1/D1.1M: 2020 Cl. 8 Part C BS 2633: 1987 Section 8 BS 2971: 1991 Section 7 BS 4515: Part 1: 2009 Table 9 BS 5135: 1984 App. H Table 18 & 19 BS EN 1011-8: 2018 Table A.2 BS EN 13480-5: 2002 Table 8.4-3 BS EN ISO 5817: 2003 Table 1 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 BS EN ISO 5817: 2023 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2005) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b

A.E.S. Destructive and Non-Destructive Testing Limited
安捷材料試驗有限公司
Flat F, 2/F, Block 2, Kwai Tak Industrial Centre, 15-33 Kwai Tak Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌葵德街 15-33 葵德工業中心第二座二字樓 F

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Welds (non-destructive) (cont'd)	Ultrasonic test (Butt welds in plates and pipes, 'T'- joint welds, nozzle welds & node welds)	AWS D1.1/D1.1M: 2015 Cl. 6.19-6.31, 9.27 & 9.30 AWS D1.1/D1.1M: 2020 Cl. 8.19-8.31, 10.26 & 10.29 ASME BPVC Sec V: 2017 Article 4 BS 3923: Part 1: 1986 (Level 1, 2a, 2b & 3) BS EN 1714: 1998 (Level A, B, & C) BS EN ISO 17640: 2010 (Level A, B, & C) BS EN ISO 17640: 2018 (Level A, B, & C) in conjunction with the following specification(s): API 1104: 2013 (21st Ed.) Cl. 9 ASME B31.1: 2020 Cl. 136.4.1 – 136.4.6 AWS D1.1/D1.1M: 2015 Cl. 6 Part C AWS D1.1/D1.1M: 2020 Cl. 8 Part C BS 2633: 1987 Section 8 BS 2971: 1991 Section 7 BS 4515: Part 1: 2009 Table 9 BS 5135: 1984 App. H Table 18 & 19 BS EN 1011-8: 2018 Table A.2 BS EN ISO 11666: 2018 Cl. 6 & Annex A BS EN ISO 5817: 2003 Table 1 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 BS EN ISO 5817: 2023 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2005) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b

A.E.S. Destructive and Non-Destructive Testing Limited
安捷材料試驗有限公司

Flat F, 2/F, Block 2, Kwai Tak Industrial Centre, 15-33 Kwai Tak Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌葵德街 15-33 葵德工業中心第二座二字樓 F

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Welds (non-destructive) (cont'd)	Visual examination	AWS B1.11M/B1.11: 2015 ASME BPVC Sec V : 2017 Article 9 BS 5289: 1976 BS EN 970: 1997 BS EN ISO 17637: 2011 BS EN ISO 17637: 2016 in conjunction with the following specification(s): API 1104: 2013 (21st Ed.) Cl. 9 ASME B31.1: 2020 Cl. 136.4.1 – 136.4.6 AWS D1.1/D1.1M: 2015 Tables 6.1 & 9.16 AWS D1.1/D1.1M: 2020 Tables 8.1 & 10.15 BS 2633: 1987 Section 8 BS 2971: 1991 Section 7 BS 4515: Part 1: 2009 Table 9 BS 4872: Part 1: 1982 Cl. 17 BS 5135: 1984 App. H Table 18 & 19 BS EN 1011-8: 2018 Table A.2 BS EN 13480-5: 2002 Table 8.4-2 BS EN ISO 5817: 2003 Table 1 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 BS EN ISO 5817: 2023 Table 1 BS EN ISO 10042: 2018 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2005) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b
	Visual examination and bend test on stud connectors	<Visual examination as follows:> BS 5289: 1976 BS EN 970: 1997 BS EN ISO 17637: 2011 BS EN ISO 17637: 2016 <together with the following bend test method(s):> BS EN ISO 14555: 2014 Cl. 11.2, 11.3 (excluding Torque wrench method), 12.2 & 12.3 Buildings Department Code of Practice for the Structural Use of Steel (2011) Cl. 14.3.7.3

Linde HKO Limited – Quality Control Laboratory
林德港氧有限公司 - 品質控制實驗所

ADDRESS : 12 Chun Yat Street, Tseung Kwan O Industrial Estate, Tseung Kwan O, Kowloon.
地址 九龍將軍澳將軍澳工業邨駿日街12號

ENQUIRY : Mr Keith HO Kin-yung; Manager, SHEQ
查詢 何健勇先生,安健環質經理

TELEPHONE : 2372 2382
電話

FAX : 2372 2502
傳真

E-MAIL : keith.ho@linde.com
電郵

CLIENTELE : In–house laboratory, conditionally available for public testing
服務對象 內部實驗室，有限度公眾服務

Linde HKO Limited – Quality Control Laboratory
林德港氧有限公司 – 品質控制實驗所

ADDRESS
地址

Main Laboratory	:	12 Chun Yat Street, Tseung Kwan O Industrial Estate, Tseung Kwan O, Kowloon. 九龍將軍澳將軍澳工業邨駿日街 12 號
Branch Laboratory	:	18 Dai Shing Street, Tai Po Industrial Estate, Tai Po, New Territories. 新界大埔大埔工業邨大盛街 18 號
ACCREDITED TEST CATEGORY **認可測試類別**	:	Chemical Testing 化學測試

Linde HKO Limited – Quality Control Laboratory
林德港氧有限公司 – 品質控制實驗所
12 Chun Yat Street, Tseung Kwan O Industrial Estate, Tseung Kwan O, Kowloon.
九龍將軍澳將軍澳工業邨駿日街 12 號

Chemical Testing 化學測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Chemical tests:	
Medical Air in cylinder	Oxygen content	In house method WI-QCL-1.3 .vs. (Paramagnetic Oxygen Analyzer)
	Nitrogen monoxide and nitrogen dioxide content	European Pharmacopoeia 9.0 .vs. Monograph 01/2009:1238 Method 01/2008:20106 (Gas Detector Tubes)
	Sulphur dioxide content	European Pharmacopoeia 9.0 .vs. Monograph 01/2009:1238 Method 01/2008:20106 (Gas Detector Tubes)
	Moisture content	In house method WI-QCL-1.7 .vs. (Dew Point Meter)

Linde HKO Limited – Quality Control Laboratory
林德港氧有限公司 – 品質控制實驗所
12 Chun Yat Street, Tseung Kwan O Industrial Estate, Tseung Kwan O, Kowloon.
九龍將軍澳將軍澳工業邨駿日街 12 號

Chemical Testing 化學測試			
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術	
	Chemical tests (cont'd):		
Medical carbon dioxide in cylinder	Carbon dioxide content	In house method WI-QCL-2.2 (Gas Absorption Method)	.vs.
	Nitrogen monoxide and nitrogen dioxide content	European Pharmacopoeia 9.0, Monograph 01/2008:0375, Method 01/2008:20106 (Gas Detector Tubes)	.vs.
	Sulphur dioxide content	European Pharmacopoeia 9.0 Monograph 01/2008:0375, Method 01/2008:20106 (Gas Detector Tubes)	.vs.
	Hydrogen sulphide content	European Pharmacopoeia 9.0 Monograph 01/2008:0375, Method 01/2008:20106 (Gas Detector Tubes)	.vs.
	Moisture content	In house method WI-QCL-1.7 (Dew Point Meter)	.vs.

Linde HKO Limited – Quality Control Laboratory
林德港氧有限公司 – 品質控制實驗所
12 Chun Yat Street, Tseung Kwan O Industrial Estate, Tseung Kwan O, Kowloon.
九龍將軍澳將軍澳工業邨駿日街 12 號

Chemical Testing 化學測試			
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術	
	Chemical tests (cont'd):		
Medical nitrous oxide in cylinder; Nitrous oxide samples from storage tank	Nitrogen monoxide and nitrogen dioxide content	European Pharmacopoeia 9.0, Monograph 01/2008:0416, Method 01/2008:20106 (Gas Detector Tubes)	.vs.
Medical nitrous oxide in cylinder	Moisture content	In house method WI-QCL-1.7 (Dew Point Meter)	.vs.
Entonox in cylinder (50% O_2 & 50% N_2O)	Oxygen content	In house method WI-QCL-1.3 (Paramagnetic Oxygen Analyzer)	.vs.
	Nitrogen monoxide and nitrogen dioxide content	European Pharmacopoeia 9.0 Method 01/2008:20106 (Gas Detector Tubes)	.vs.
	Moisture content	In house method WI-QCL-1.7 (Dew Point Meter)	.vs.
Medical Oxygen in cylinder, LGC; Oxygen samples from storage tank	Oxygen content	In house method WI-QCL-1.3 (Paramagnetic Oxygen Analyzer)	.vs.
Medical Oxygen in cylinder, LGC	Moisture content	In house method WI-QCL-1.7 (Dew Point Meter)	.vs.

Linde HKO Limited – Quality Control Laboratory
林德港氧有限公司 – 品質控制實驗所
18 Dai Shing Street, Tai Po Industrial Estate, Tai Po, New Territories.
新界大埔大埔工業邨大盛街 18 號

Chemical Testing 化學測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Chemical tests (cont'd):	
Carbon dioxide samples from storage tank	Carbon monoxide	In house method WI-QCL-1.24 (Gas Chromatograph) .vs.
	Methane content	In house method WI-QCL-1.24 (Gas Chromatograph) .vs.
Oxygen samples from storage tank	Oxygen content	In house method WI-QCL-1.3 (Paramagnetic Oxygen Analyzer) .vs.
	Carbon dioxide content	In house method WI-QCL-1.24 (Gas Chromatograph) .vs.
	Carbon monoxide	In house method WI-QCL-1.24 (Gas Chromatograph) .vs.
	Methane content	In house method WI-QCL-1.24 (Gas Chromatograph) .vs.

Linde HKO Limited – Quality Control Laboratory
林德港氧有限公司 – 品質控制實驗所

Summary of Voluntary Suspension

.vs. denotes tests for which accreditation has been voluntarily suspended with effect from 30 November 2024. (Notification Letter no. HOKLAS105-36)

Hong Kong Calibration Limited
香港校正有限公司

ADDRESS 地址	:	Unit 8B, 24/F., Well Fung Industrial Centre, No. 58-76, Ta Chuen Ping Street, Kwai Chung, N.T., Hong Kong. 香港新界葵涌打磚坪街58-76號和豐工業中心24字樓8B
ENQUIRY 查詢	:	Mr CHU Wai Kwong, Alan, Operation Manager 朱偉光先生
TELEPHONE 電話	:	2425 8801
FAX 傳真	:	2425 8646
CLIENTELE 服務對象	:	Public 公眾

Hong Kong Calibration Limited
香港校正有限公司

ADDRESS **地址**	:	Unit 8B, 24/F., Well Fung Industrial Centre, No. 58-76, Ta Chuen Ping Street, Kwai Chung, N.T., Hong Kong 香港新界葵涌打磚坪街 58-76 號和豐工業中心 24 字樓 8B
ACCREDITED TEST CATEGORY **認可測試類別**	:	Calibration Services 校正服務

Hong Kong Calibration Limited
香港校正有限公司
Unit 8B, 24/F., Well Fung Industrial Centre, No. 58-76, Ta Chuen Ping Street, Kwai Chung, N.T., Hong Kong
香港新界葵涌打磚坪街 58-76 號和豐工業中心 24 字樓 8B

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Electrical measurements		
- AC ammeters	Calibration for AC current in accordance with in-house procedure E34 over the following ranges:-	
	45 Hz to 1 kHz	
	100 μA to 0.33 mA	0.53 μA to 0.82 μA
	0.33 mA to 3.3 mA	0.83 μA to 4.6 μA
	3.3 mA to 33 mA	11 μA to 42 μA
	33 mA to 330 mA	110 μA to 413 μA
	330 mA to 2.2 A	0.89 mA to 3.2 mA
	45 Hz to 65 Hz	
	2.2 A to 11 A	5.5 mA to 11 mA
	65 Hz to 500 Hz	
	2.2 A to 11 A	6.4 mA to 17 mA
	500 Hz to 1 kHz	
	2.2 A to 11 A	12 mA to 49 mA

@ UNLESS OTHERWISE SPECIFIED, ACCREDITED ACTIVITIES ARE CONDUCTED AT THE LABORATORY.

* THE CALIBRATION UNCERTAINTY OF A DEVICE UNDER TEST IS USUALLY REPORTED AT 95% CONFIDENCE LEVEL AND DEPENDS ON BOTH THE CMC OF THE LABORATORY AND THE PERFORMANCE OF THE DEVICE DURING CALIBRATION.

Hong Kong Calibration Limited
香港校正有限公司
Unit 8B, 24/F., Well Fung Industrial Centre, No. 58-76, Ta Chuen Ping Street, Kwai Chung, N.T., Hong Kong
香港新界葵涌打磚坪街 58-76 號和豐工業中心 24 字樓 8B

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Electrical measurements		
- AC voltmeters	Calibration for AC voltage in accordance with in-house procedure E32 over the following ranges:-	
	45 Hz to 10 kHz	
	29 mV to 33 mV	79 μV to 87 μV
	33 mV to 330 mV	45 μV to 234 μV
	0.33 V to 3.3 V	0.21 mV to 1.4 mV
	3.3 V to 33 V	2.5 mV to 18 mV
	10 kHz to 20 kHz	
	33 mV to 330 mV	66 μV to 444 μV
	0.33 V to 3.3 V	0.41 mV to 3.5 mV
	3.3 V to 33 V	6.4 mV to 37 mV
	20 kHz to 50 kHz	
	33 mV to 330 mV	110 μV to 720 μV
	0.33 V to 3.3 V	0.94 mV to 6.3 mV
	3.3 V to 33 V	14 mV to 86 mV
	45 Hz to 1 kHz	
	33 V to 330 V	30 mV to 220 mV
	330V to 1020 V	310 mV to 720 mV
	1 kHz to 10 kHz	
	33 V to 330 V	51 mV to 360 mV

@ UNLESS OTHERWISE SPECIFIED, ACCREDITED ACTIVITIES ARE CONDUCTED AT THE LABORATORY.

* THE CALIBRATION UNCERTAINTY OF A DEVICE UNDER TEST IS USUALLY REPORTED AT 95% CONFIDENCE LEVEL AND DEPENDS ON BOTH THE CMC OF THE LABORATORY AND THE PERFORMANCE OF THE DEVICE DURING CALIBRATION.

Hong Kong Calibration Limited
香港校正有限公司
Unit 8B, 24/F., Well Fung Industrial Centre, No. 58-76, Ta Chuen Ping Street, Kwai Chung, N.T., Hong Kong
香港新界葵涌打磚坪街 58-76 號和豐工業中心 24 字樓 8B

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Electrical measurements		
- DC ammeters	Calibration for DC current in accordance with in-house procedure E33 over the following ranges:-	
	0.19 mA to 3.3 mA	0.09 μA to 0.61 μA
	3.3 mA to 33 mA	0.71 μA to 4.6 μA
	33 mA to 330 mA	8 μA to 47 μA
	0.33 A to 2.2 A	0.18 mA to 0.9 mA
	2.2 A to 11 A	2.1 mA to 8.9 mA
- DC ohmmeters	Calibration for resistance in accordance with in-house procedure E35 over the following ranges:-	
	1 Ω to 11 Ω	10.4 mΩ to 11 mΩ
	11 Ω to 33 Ω	19 mΩ to 23 mΩ
	33 Ω to 110 Ω	22 mΩ to 30 mΩ
	110 Ω to 330 Ω	30 mΩ to 56 mΩ
	0.33 kΩ to 1.1 kΩ	0.11 Ω to 0.2 Ω
	1.1 kΩ to 3.3 kΩ	0.2 Ω to 0.46 Ω
	3.3 kΩ to 11 kΩ	1.1 Ω to 2 Ω
	11 kΩ to 33 kΩ	2 Ω to 4.6 Ω
	33 kΩ to 110 kΩ	12 Ω to 23 Ω
	110 kΩ to 330 kΩ	25 Ω to 59 Ω
	0.33 MΩ to 1.1 MΩ	0.13 kΩ to 0.28 kΩ
	1.1 MΩ to 3.3 MΩ	0.39 kΩ to 0.88 kΩ
	3.3 MΩ to 11 MΩ	3.2 kΩ to 9.2 kΩ
	11 MΩ to 33 MΩ	22 kΩ to 56 kΩ
	33 MΩ to 110 MΩ	0.22 MΩ to 0.72 MΩ
- DC voltmeters	Calibration for DC voltage in accordance with in-house procedure E31 over the following ranges:-	
	30 mV to 330 mV	7.5 μV to 29 μV
	0.33 V to 3.3 V	40 μV to 220 μV
	3.3 V to 33 V	0.63 mV to 2.2 mV
	33 V to 330 V	6.3 mV to 24 mV
	330 V to 1020 V	29 mV to 74 mV

@ UNLESS OTHERWISE SPECIFIED, ACCREDITED ACTIVITIES ARE CONDUCTED AT THE LABORATORY.

* THE CALIBRATION UNCERTAINTY OF A DEVICE UNDER TEST IS USUALLY REPORTED AT 95% CONFIDENCE LEVEL AND DEPENDS ON BOTH THE CMC OF THE LABORATORY AND THE PERFORMANCE OF THE DEVICE DURING CALIBRATION.

Hong Kong Curtain Wall Testing Centre Ltd.
香港幕牆檢測中心有限公司

ADDRESS 地址	:	Unit 8, 16/F, Grandtech Centre, No. 8 On Ping Street, Shatin, New Territories, Hong Kong 香港新界沙田安平街 8 號偉達中心 16 樓 8 室
ENQUIRY 查詢	:	Mr Antonio LEUNG Tak-chun, Executive Director 梁德俊先生，執行董事
TELEPHONE 電話	:	2687 6122
FAX 傳真	:	2690 0122
E-MAIL 電郵	:	enquiry@curtainwalltest.com
WEBSITE ADDRESS 網址	:	http://www.curtainwalltest.com
CLIENTELE 服務對象	:	Public 公眾

Hong Kong Curtain Wall Testing Centre Ltd.
香港幕牆檢測中心有限公司

ADDRESS
地址

Main Laboratory	:	Unit 8, 16/F, Grandtech Centre, No.8 On Ping Street, Shatin, New Territories, Hong Kong 香港新界沙田安平街 8 號偉達中心 16 樓 8 室
Hong Kong Branch Laboratory (Fanling)	:	DD77, Lot 328, Ping Yuen Road, Ping Che, Fanling, New Territories, Hong Kong 香港新界粉嶺坪輋坪原路 DD77, 328 地段
Shenzhen Test Location	:	深圳市龍崗區寶龍街道同德社區嚇坑大地工業區 13 號晶南星廠 C 棟 101
ACCREDITED TEST CATEGORY **認可測試類別**	:	Construction Materials 建築材料

Hong Kong Curtain Wall Testing Centre Ltd.
香港幕牆檢測中心有限公司
Unit 8, 16/F, Grandtech Centre, No.8 On Ping Street, Shatin, New Territories, Hong Kong
香港新界沙田安平街 8 號偉達中心 16 樓 8 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Welds (non-destructive)	Liquid penetrant test (Colour contrast method)	BS 6443: 1984 + Amd. 4844 BS EN 571-1: 1997 BS EN ISO 3452-1: 2013 in conjunction with the following specification(s): BS EN ISO 5817: 2014 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2005) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b
	Magnetic particle test (magnetic flow method color contrast technique using permanent magnets and A.C. yokes)	BS 6072: 1981 (1986) BS EN 1290: 1998 BS EN ISO 9934-1: 2001 + A1: 2003 BS EN ISO 9934-1: 2016 BS EN ISO 17638: 2009 BS EN ISO 17638: 2016 in conjunction with the following specification(s): BS EN ISO 5817: 2014 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2005) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b
	Ultrasonic test (Butt welds in plates & pipes, 'T' joint welds, nozzle welds and node welds)	BS 3923: Part 1: 1986 (Examination Level, 1, 2a, 2b & 3) BS EN 1714: 1998 (Testing Level A, B & C) BS EN ISO 17640: 2010 (Testing Level A, B & C) BS EN ISO 17640: 2018 (Testing Level A, B & C) in conjunction with the following specification(s): BS EN ISO 5817: 2014 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2005) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b
	Visual examination	BS 5289: 1976 BS EN 970: 1997 BS EN ISO 17637: 2011 BS EN ISO 17637: 2016 in conjunction with the following specification(s): BS EN ISO 5817: 2014 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2005) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b

Hong Kong Curtain Wall Testing Centre Ltd.
香港幕牆檢測中心有限公司
DD77, Lot 328, Ping Yuen Road, Ping Che, Fanling, New Territories, Hong Kong
香港新界粉嶺坪輋坪原路 DD77, 328 地段

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Curtain walls	Air leakage rate	ASTM E283-04 (Reapproved 2012) ASTM E283/E283M-19 AS/NZS 4284: 2008 Cl. 8.4
	Cyclic safety test for curtain wall system	Buildings Department APP-37 (May 2012) App. B Buildings Department Code of Practice for Structural Use of Glass (2018) Table 8.1
	Static test to seismic and wind interstory drifts	AAMA 501.4: 2009 AAMA 501.4: 2018 AS/NZS 4284: 2008 Cl. 8.9
	Structural performance by uniform static air pressure difference	ASTM E330-02 (Reapproved 2010) ASTM E330/E330M-14 AS/NZS 4284: 2008 Cl. 8.2, 8.3 & 8.8
	Water penetration test by cyclic static air pressure difference	ASTM E547-00 (Reapproved 2016) AS/NZS 4284: 2008 Cl. 8.6
	Water penetration test by dynamic pressure	AAMA 501.1: 2005 AAMA 501.1: 2017
	Water penetration test by uniform static air pressure difference	ASTM E331-00 (Reapproved 2016) AS/NZS 4284: 2008 Cl. 8.5
	Wind resistance test	BS 5368-3: 1978, EN 77: 1977

Hong Kong Curtain Wall Testing Centre Ltd.
香港幕牆檢測中心有限公司
DD77, Lot 328, Ping Yuen Road, Ping Che, Fanling, New Territories, Hong Kong
香港新界粉嶺坪輋坪原路 DD77, 328 地段

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Dimension stones	Absorption and bulk specific gravity	ASTM C97/C97M-09
	Compressive strength	ASTM C170/C170M-09
	Flexural strength	ASTM C880/C880M-09 ASTM C880/C880M-18
	Modulus of rupture	ASTM C99/C99M-09
	Strength of individual stone anchorages	ASTM C1354/C1354M-09 excluding Cl. 9.6 ASTM C1354/C1354M-22 excluding Cl. 9.6
Glass	Bending strength of glass	BS EN 1288-3: 2000
	Bending strength of laminated glass at elevated temperature 50°C	Buildings Department Code of Practice for Structural Use of Glass (2018) + Amd. (2/2024) Annex B1
	Boil test of laminated glass	ANSI Z97.1: 2004 ANSI Z97.1: 2015 BS EN ISO 12543-4: 2011 Cl. 5 excluding 5.3.2 Buildings Department Code of Practice for Structural Use of Glass (2018) Annex B2
	High-temperature test	BS EN ISO 12543-4: 2011 Cl. 5 excluding Cl. 5.3.3
	Impact test of glass	BS 6206: 1981 + Amd. 8693 excluding Cl. 6 BS EN 12600: 2002
	Non-destructive photoelastic measurement of surface stresses in annealed, heat-strengthened and fully tempered flat glass	ASTM C1279-13 ASTM C1279-13 (Reapproved 2019)
Metallic Materials	Tensile test of metallic materials in the force range 1kN to 300kN	BS 18: 1987 BS EN 10002-1: 2001 BS EN ISO 6892-1: 2016 Method B in conjunction with the following specification(s): BS 1474: 1987 Cl. 6 BS EN 755-2: 1997 BS EN 10025-1: 2004 Cl. 10.2.1

Hong Kong Curtain Wall Testing Centre Ltd.
香港幕牆檢測中心有限公司
DD77, Lot 328, Ping Yuen Road, Ping Che, Fanling, New Territories, Hong Kong
香港新界粉嶺坪輋坪原路 DD77, 328 地段

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Structural fixings	Shear proof load test of anchors, dowel bars, channel inserts and embed plates by incremental loading in the force range 0.2 kN – 600 kN	BS 5080 Part 2: 1986 + Amd. 7602 Cl. 4, 7.1, 7.2.1 and 7.2.3 with modification
	Shear proof load test of drilled-in anchors used for cantilevered structure/hanger/curtain wall remedial works by incremental loading in the force range 2 kN – 50 kN	Buildings Department PNAP APP-169 (Oct 2023) App. A
	Shear proof load test of drilled-in anchors used for works other than cantilevered structure/ hanger/curtain wall remedial works in the force range 2 kN – 50 kN	Buildings Department PNAP APP-169 (Oct 2023) App. B
	Shear proof load test for cementitious or polymer based grouted bolts or dowels reinforcing bars works or/and steel T-bolts with cast-in channels in the force range 2 kN – 50 kN	Buildings Department PNAP APP-169 (Oct 2023) App. C
	Tensile proof load test of anchors, dowel bars, channel inserts and embed plates by incremental loading in the force range 0.2 kN – 890 kN	BS 5080 Part 1: 1993 Cl. 6, 7.1.1 and 7.1.3 with modification (by incremental loading)
	Tensile proof load test of drilled-in anchors used for cantilevered structure/hanger/curtain wall remedial works by incremental loading in the force range 2 kN – 300 kN	Buildings Department PNAP APP-169 (Oct 2023) App. A
	Tensile proof load test of drilled-in anchors used for works other than cantilevered structure/ hanger/curtain wall remedial works in the force range 2 kN – 300 kN	Buildings Department PNAP APP-169 (Oct 2023) App. B
	Tensile proof load test for cementitious or polymer based grouted bolts or dowels reinforcing bars works or/and steel T-bolts with cast-in channels in the force range 2 kN – 300 kN	Buildings Department PNAP APP-169 (Oct 2023) App. C
Structural fixings (spiders)	Proof load test of spiders and glass fixing structural components in the force range 0.2 kN – 80 kN	Buildings Department APP-37 (May 2012) App. C Buildings Department APP-37 (May 2020) App. B Buildings Department APP-37 (Apr 2022) App. C Buildings Department Code of Practice for the Structural Use of Steel (2011) Cl. 16.2

Hong Kong Curtain Wall Testing Centre Ltd.
香港幕牆檢測中心有限公司
DD77, Lot 328, Ping Yuen Road, Ping Che, Fanling, New Territories, Hong Kong
香港新界粉嶺坪輋坪原路 DD77, 328 地段

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Windows	Air permeability / leakage test	BS 6375: Part 1: 2009 Cl. 6 BS 6375: Part 1: 2015 + A1: 2016 Cl. 6 BS EN 1026: 2000 BS EN 1026: 2016 SS 212: 2007 Cl. 10.2.1.1, 10.2.1.4 & Annex A in conjunction with the following specification(s): BS EN 12207: 2000 BS EN 12207: 2016
	Dimension test - individual member	BS 1474: 1987 Cl. 7.4 in conjunction with the following specification(s): BS 1474: 1987 Table 6, 9, 10, 14 & 16 BS EN 12020-2: 2016 Table 1, 4, 5 8 & 9
	Dimension test - overall size	Hong Kong Housing Authority Specification Library (2018) (Batch 2) COM2.M005.A Cl. 2a(i)
	Operating forces	BS EN 12046-1: 2003 in conjunction with the following specification(s): BS 6375: Part 2: 2009 Cl. 5.1 BS EN 13115: 2001 Cl. 3.1
	Resistance to racking	BS EN 14608: 2004 in conjunction with the following specification(s): BS 6375: Part 2: 2009 Cl. 5.2.2 BS EN 13115: 2001 Cl. 3.2
	Resistance to static torsion	BS EN 14609: 2004 in conjunction with the following specification(s): BS 6375: Part 2: 2009 Cl. 5.2.1 BS EN 13115: 2001 Cl. 3.3
	Resistance to wind test	BS 6375: Part 1: 2009 Cl. 8 BS 6375: Part 1: 2015 + A1: 2016 Cl. 8 BS EN 12211: 2000 BS EN 12211: 2016 in conjunction with the following specification(s): BS EN 12210: 2000 BS EN 12210: 2016

Hong Kong Curtain Wall Testing Centre Ltd.
香港幕牆檢測中心有限公司
DD77, Lot 328, Ping Yuen Road, Ping Che, Fanling, New Territories, Hong Kong
香港新界粉嶺坪輋坪原路 DD77, 328 地段

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Windows (cont'd)	Watertightness test	BS 6375: Part 1: 2009 Cl. 7 BS 6375: Part 1: 2015 + A1: 2016 Cl. 7 BS EN 1027: 2000 BS EN 1027: 2016 SS 212: 2007 Cl. 10.2.1.2, 10.2.1.5 & Annex B in conjunction with the following specification(s): BS EN 12208: 2000
	Thickness of coating	BS EN ISO 1463: 1995 BS EN ISO 1463: 2004
	Visual inspection on coating	BS 3987: 1991 Cl. 3 & App. G
	Structural performance test	SS 212: 2007 Cl. 10.2.1.3 & Annex C
	Proof load test	SS 212: 2007 Cl. 10.2.1.6 & Annex D
	Endurance of fastener / hardware	
	- Operation of fastener	SS212: 2007 Cl. 10.2.2 & Annex E Test 1
	- Movement of sash	SS212: 2007 Cl. 10.2.2 & Annex E Test 2
	- Release of jammed sash	SS212: 2007 Cl. 10.2.2 & Annex E Test 4
	- Release of jammed hinge	SS212: 2007 Cl. 10.2.2 & Annex E Test 5
	- Strength of restricted opening devices, location devices and maximum opening stops	SS212: 2007 Cl. 10.2.2 & Annex E Test 6
	- Resistance to accidental loadings	SS212: 2007 Cl. 10.2.2 & Annex E Test 7
	- Endurance of fastener/hardware	SS212: 2007 Cl. 10.2.2 & Annex E Test 8 SS212: 2007 Cl. 10.2.2 & Annex E Test 8 with modification (test cycle exceeding 50,000 nos. and up to 100,000 nos.)
	Operation tests	
	- Ease of fastener operations	BS 6375: Part 2: 1987 Cl. 6.1.1, 6.1.2 & A2
	- Movement of sash	BS 6375: Part 2: 1987 Cl. 6.1.3 & A3
	- Release of jammed sash	BS 6375: Part 2: 1987 Cl. 6.2.2, A2 & A5
	- Release of jammed hinge	BS 6375: Part 2: 1987 Cl. 6.3 & A6
	- Strength of restricted opening devices, location devices and maximum opening stops	BS 6375: Part 2: 1987 Cl. 6.4 & A7
	- Resistance to accidental loading	BS 6375: Part 2: 1987 Cl. 6.5 and A8

Hong Kong Curtain Wall Testing Centre Ltd.
香港幕牆檢測中心有限公司
DD77, Lot 328, Ping Yuen Road, Ping Che, Fanling, New Territories, Hong Kong
香港新界粉嶺坪輋坪原路 DD77, 328 地段

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Windows (cont'd)	Durometer hardness test (Type A hardness only)	ASTM D2240-15
	Deflection test	AS 4420.2: 1996 in conjunction with the following specification(s): AS 2047: 1999 Cl. 2.3.1.3 NZS 4211: 2008 Cl. 6
	Operating force test	AS 4420.3: 1996 in conjunction with the following specification: AS 2047: 1999 Cl. 2.3.1.4 NZS 4211: 2008 Cl. 7
	Air infiltration test	AS 4420.4: 1996 in conjunction with the following specification(s): AS 2047: 1999 Cl. 2.3.1.5 NZS 4211: 2008 Cl. 8
	Water penetration test	AS 4420.5: 1996 in conjunction with the following specification(s): AS 2047: 1999 Cl. 2.3.1.6 NZS 4211: 2008 Cl. 9
	Ultimate strength test	AS 4420.6: 1996 in conjunction with the following specification(s): AS 2047: 1999 Cl. 2.3.1.7 NZS 4211: 2008 Cl. 10

Hong Kong Curtain Wall Testing Centre Ltd.
香港幕牆檢測中心有限公司
深圳市龍崗區寶龍街道同德社區嶺坑大地工業區 13 號晶南星廠 C 棟 101

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Curtain walls	Air leakage rate	ASTM E283-04 (Reapproved 2012) ASTM E283/E283M-19 AS/NZS 4284: 2008 Cl. 8.4
	Cyclic safety test for curtain wall system	Buildings Department APP-37 (May 2012) App. B Buildings Department Code of Practice for Structural Use of Glass (2018) Table 8.1
	Static test to seismic and wind interstory drifts	AAMA 501.4: 2009 AAMA 501.4: 2018 AS/NZS 4284: 2008 Cl. 8.9
	Structural performance by uniform static air pressure difference	ASTM E330-02 (Reapproved 2010) ASTM E330/E330M-14 AS/NZS 4284: 2008 Cl. 8.2, 8.3 & 8.8
	Water penetration test by cyclic static air pressure difference	ASTM E547-00 (Reapproved 2016) AS/NZS 4284: 2008 Cl. 8.6
	Water penetration test by uniform static air pressure difference	ASTM E331-00 (Reapproved 2016) AS/NZS 4284: 2008 Cl. 8.5
Glass	Bending strength of glass	BS EN 1288-3: 2000

Hong Kong Curtain Wall Testing Centre Ltd.
香港幕牆檢測中心有限公司
深圳市龍崗區寶龍街道同德社區嶺坑大地工業區 13 號晶南星廠 C 棟 101

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Windows	Air permeability / leakage test	BS 6375: Part 1: 2009 Cl. 6 BS 6375: Part 1: 2015 + A1: 2016 Cl. 6 BS EN 1026: 2000 BS EN 1026: 2016 in conjunction with the following specification(s): BS EN 12207: 2000 BS EN 12207: 2016
	Endurance of fastener / hardware - Operation of fastener - Movement of sash - Endurance of fastener/hardware	 SS212: 2007 Cl. 10.2.2 & Annex E Test 1 SS212: 2007 Cl. 10.2.2 & Annex E Test 2 SS212: 2007 Cl. 10.2.2 & Annex E Test 8 SS212: 2007 Cl. 10.2.2 & Annex E Test 8 with modification (test cycle exceeding 50,000 nos. and up to 100,000 nos.)
	Operating forces	BS EN 12046-1: 2003 in conjunction with the following specification(s): BS 6375: Part 2: 2009 Cl. 5.1 BS EN 13115: 2001 Cl. 3.1
	Resistance to racking	BS EN 14608: 2004 in conjunction with the following specification(s): BS 6375: Part 2: 2009 Cl. 5.2.2 BS EN 13115: 2001 Cl. 3.2
	Resistance to static torsion	BS EN 14609: 2004 in conjunction with the following specification(s): BS 6375: Part 2: 2009 Cl. 5.2.1 BS EN 13115: 2001 Cl. 3.3
	Resistance to wind test	BS 6375: Part 1: 2009 Cl. 8 BS 6375: Part 1: 2015 + A1: 2016 Cl. 8 BS EN 12211: 2000 BS EN 12211: 2016 in conjunction with the following specification(s): BS EN 12210: 2000 BS EN 12210: 2016
	Watertightness test	BS 6375: Part 1: 2009 Cl. 7 BS 6375: Part 1: 2015 + A1: 2016 Cl. 7 BS EN 1027: 2000 BS EN 1027: 2016 in conjunction with the following specification(s): BS EN 12208: 2000

Hong Kong Curtain Wall Testing Centre Ltd.
香港幕牆檢測中心有限公司
深圳市龍崗區寶龍街道同德社區嶺坑大地工業區 13 號晶南星廠 C 棟 101

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Windows (cont'd)	Deflection test	AS 4420.2: 1996 in conjunction with the following specification: AS 2047: 1999 Cl. 2.3.1.3 NZS 4211: 2008 Cl. 6
	Operating force test	AS 4420.3: 1996 in conjunction with the following specification: AS 2047: 1999 Cl. 2.3.1.4 NZS 4211: 2008 Cl. 7
	Air infiltration test	AS 4420.4: 1996 in conjunction with the following specification(s): AS 2047: 1999 Cl. 2.3.1.5 NZS 4211: 2008 Cl. 8
	Water penetration test	AS 4420.5: 1996 in conjunction with the following specification: AS 2047: 1999 Cl. 2.3.1.6 NZS 4211: 2008 Cl. 9
	Ultimate strength test	AS 4420.6: 1996 in conjunction with the following specification: AS 2047: 1999 Cl. 2.3.1.7 NZS 4211: 2008 Cl. 10

JAS (Inspection & Testing) Limited
JAS 建築幕牆測試及研究有限公司

ADDRESS 地址	:	Flat / Rm 622, 6/F, Topsail Plaza, No. 11 On Sum Street, Shatin, New Territories, Hong Kong 香港新界沙田安心街11號華順廣場6樓622室
ENQUIRY 查詢	:	Mr LAU Pang-sang, Quality Manager 柳鵬生先生，品質經理
TELEPHONE 電話	:	2834 1663
FAX 傳真	:	2834 1178
E-MAIL 電郵	:	jasassoc@hkstar.com
WEBSITE ADDRESS 網址	:	www.jasitl.com
CLIENTELE 服務對象	:	Public 公眾

JAS (Inspection & Testing) Limited
JAS 建築幕牆測試及研究有限公司

ADDRESS
地址

Main Laboratory	:	Flat / Rm 622, 6/F, Topsail Plaza, No. 11 On Sum Street, Shatin, New Territories, Hong Kong 香港新界沙田安心街 11 號華順廣場 6 樓 622 室
Branch Laboratory	:	Tin Shui Wai Laboratory : No. 20 Wing On Kuk, Ping Ha Road, Tin Shui Wai, New Territories, Hong Kong. 天水圍試驗室 ： 香港新界天水圍屏廈路永安居 20 號
ACCREDITED TEST CATEGORY **認可測試類別**	:	Construction Materials 建築材料

JAS (Inspection & Testing) Limited
JAS 建築幕牆測試及研究有限公司

Flat / Rm 622, 6/F, Topsail Plaza, No. 11 On Sum Street, Shatin, New Territories, Hong Kong
香港新界沙田安心街 11 號華順廣場 6 樓 622 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Glass	Impact test of glass	BS 6206: 1981 + Amd 4580, 5189, 7589 and 8693 excluding Cl. 6

JAS (Inspection & Testing) Limited
JAS 建築幕牆測試及研究有限公司
No. 20 Wing On Kuk, Ping Ha Road, Tin Shui Wai, New Territories, Hong Kong.
香港新界天水圍屏廈路永安居 20 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Curtain walls	Cyclic safety test for curtain wall system	Buildings Department PNAP 106 (Jan 2009) Para. 4 Buildings Department APP-37 (Dec 2010) App. B Buildings Department APP-37 (May 2012) App. B Buildings Department Code of Practice for Structural Use of Glass (2018) Table 8.1

Water Supplies Department - Pak Kong Water Treatment Works Laboratory
水務署 – 北港濾水廠化驗室

ADDRESS 地址	:	Pak Kong Water Treatment Works, 20 Pak Kong Road, Sai Kung, New Territories, Hong Kong 香港新界西貢北港路20號北港濾水廠
ENQUIRY 查詢	:	Mr CHOY Tak-yip, Chief Waterworks Chemist 蔡德業先生，總水務化驗師
TELEPHONE 電話	:	2829 4443
FAX 傳真	:	2824 0578
E-MAIL 電郵	:	wsdinfo@wsd.gov.hk
WEBSITE ADDRESS 網址	:	http://www.wsd.gov.hk
CLIENTELE 服務對象	:	Government departments, normally not available for public testing 通常只服務政府部門

Water Supplies Department - Pak Kong Water Treatment Works Laboratory
水務署 – 北港濾水廠化驗室

ADDRESS **地址**	:	Pak Kong Water Treatment Works, 20 Pak Kong Road, Sai Kung, New Territories, Hong Kong 香港新界西貢北港路 20 號北港濾水廠
ACCREDITED TEST CATEGORY **認可測試類別**	:	Environmental Testing 環境測試

Water Supplies Department - Pak Kong Water Treatment Works Laboratory
水務署 – 北港濾水廠化驗室
Pak Kong Water Treatment Works, 20 Pak Kong Road, Sai Kung, New Territories, Hong Kong
香港新界西貢北港路 20 號北港濾水廠

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Water	Physical Examination:-	
	Turbidity	In-house method FW-PH-006 (By Nephelometric Method)
	Total Hardness (EDTA)	In-house method FW-CH-011 (By EDTA Titrimetric Method)
	Calcium Hardness	In-house method FW-CH-025 (By EDTA Titrimetric Method)
	Non-metallic Constituents:-	
	Fluoride	In-house method FW-CH-020 (By Ion-selective Electrode Method)
	Chloride	In-house method FW-CH-016 (By Argentometric Method)

Macau Cement Manufacturing Co. Ltd.
澳門水泥廠有限公司

ADDRESS 地址	:	Ka-Ho, Coloane, Macau 澳門路環九澳
ENQUIRY 查詢	:	Mr. XU Xin, Assistant General Manager 徐昕先生，副總經理
TELEPHONE 電話	:	(853) 28870511
FAX 傳真	:	(853) 28870273
E-MAIL 電郵	:	mocement@macau.ctm.net
CLIENTELE 服務對象	:	In-house laboratory, normally not available for public testing 內部實驗室，通常只提供內部服務

Macau Cement Manufacturing Co. Ltd.
澳門水泥廠有限公司

ADDRESS **地址**	:	Ka-Ho, Coloane, Macau 澳門路環九澳
ACCREDITED TEST CATEGORY **認可測試類別**	:	Construction Materials 建築材料

Macau Cement Manufacturing Co. Ltd.
澳門水泥廠有限公司
Ka-Ho, Coloane, Macau
澳門路環九澳

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Cement (Chemical analysis)	Acid-soluble alkali content (equivalent Na_2O)	In-house method MCM/QCW/004 (flame photometry)

Vitasoy International Holdings Ltd. – Laboratory Management
維他奶國際集團有限公司–實驗室管理

ADDRESS : 10U/F, Vitasoy Manufacturing Building, 1 Kin Wong Street, Tuen Mun, Hong Kong
地址 香港屯門建旺街1號維他奶生產大樓十樓上層

ENQUIRY : Mr Jason LAM Sze-tsun
查詢 Microbiologist
林斯進先生，微生物化驗主任

TELEPHONE : 2468 9695
電話

FAX : 2466 4292
傳真

E-MAIL : Jasonlam@vitasoy.com
電郵

WEBSITE ADDRESS : http://www.vitasoy.com
網址

CLIENTELE : In-house laboratory, normally not available for public testing
服務對象 內部實驗室，通常只提供內部服務

Vitasoy International Holdings Ltd. – Laboratory Management
維他奶國際集團有限公司–實驗室管理

ADDRESS : 10U/F, Vitasoy Manufacturing Building, 1 Kin Wong Street, Tuen Mun, Hong Kong
地址 香港屯門建旺街 1 號維他奶生產大樓十樓上層

ACCREDITED TEST CATEGORY : Food 食品
認可測試類別

Vitasoy International Holdings Ltd. – Laboratory Management
維他奶國際集團有限公司–實驗室管理
10U/F, Vitasoy Manufacturing Building, 1 Kin Wong Street, Tuen Mun, Hong Kong
香港屯門建旺街 1 號維他奶生產大樓十樓上層

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Microbiological tests:-	
General foodstuff	- Aerobic plate count	US FDA Bacteriological Analytical Manual Online (BAM online), Chapter 3, January 2001 (Conventional Plate Count Method) AOAC Official Method 990.12 (2000) (Petrifilm method)
	- Coliform count	US FDA Bacteriological Analytical Manual Online (BAM online), Chapter 4, September 2002 (Solid medium method) AOAC Official Method 991.14 (2005) (Petrifilm method)
	- Mould and yeast count	US FDA Bacteriological Analytical Manual Online (BAM online), Chapter 18, January 2001 (Spread Plate Method) AOAC Official Method 997.02 (2000) (Petrifilm method)
	- *E. coli* count	AOAC Official Method 991.14 (2000) (Petrifilm method)
	- Detection of *Listeria monocytogenes*	CHROMagar™ Listeria - AFNOR Validation Certificate no. CHR-21/1-12/01 Confirmation by CHROMagar™ Identification Listeria
Milk	- Coliform count	AOAC Official Method 986.33 (2000) (Petrifilm method)
	- Aerobic plate count	AOAC Official Method 986.33 (2000) (Petrifilm method)
UHT Product (Sample pre-incubation at 32°C for 5 days)	- Qualitative test for microbial growth (Sample incubation: 35°C for 2 days and 55°C for 2 days)	In-house method IWI-TQC-M001 (Streak plate method)
Water	- Heterotrophic plate count	APHA 21ed 9215 D (Membrane filter method)
	- Total coliform count	APHA 21ed 9222B (Membrane filter method)

Acoustics and Air Testing Laboratory Co. Ltd.
聲學及空氣測試實驗室有限公司

ADDRESS : Room 422, Leader Industrial Centre, 57-59 Au Pui Wan Street,
地址 Fo Tan, Shatin, N.T., Hong Kong
香港新界沙田火炭坳背灣街57-59號利達工業中心422室

ENQUIRY : Mr NG Yan-wa, Laboratory Manager
查詢 伍恩華先生，實驗所經理
Dr POON Wai-yin, Technical Director
潘偉賢博士，技術總監

TELEPHONE : 2668 3423
電話

FAX : 2668 6946
傳真

E-MAIL : inquiry@aa-lab.com
電郵

WEBSITE ADDRESS : http://www.aa-lab.com
網址

CLIENTELE : Public
服務對象 公眾

Acoustics and Air Testing Laboratory Co. Ltd.
聲學及空氣測試實驗室有限公司

ADDRESS
地址

Main Laboratory	:	Room 422, Leader Industrial Centre, 57-59 Au Pui Wan Street, Fo Tan, Shatin, N.T., Hong Kong 香港新界沙田火炭坳背灣街 57-59 號利達工業中心 422 室
Branch Laboratories	:	Room 401, Leader Industrial Centre, 57-59 Au Pui Wan Street, Fo Tan, Shatin, N.T., Hong Kong 香港新界沙田火炭坳背灣街 57-59 號利達工業中心 401 室 Room 419, Leader Industrial Centre, 57-59 Au Pui Wan Street, Fo Tan, Shatin, N.T., Hong Kong 香港新界沙田火炭坳背灣街 57-59 號利達工業中心 419 室
ACCREDITED TEST CATEGORY **認可測試類別**	:	Construction Materials 建築材料

Acoustics and Air Testing Laboratory Co. Ltd.
聲學及空氣測試實驗室有限公司
Room 422, Leader Industrial Centre, 57-59 Au Pui Wan Street, Fo Tan, Shatin, N.T., Hong Kong
香港新界沙田火炭坳背灣街 57-59 號利達工業中心 422 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Acoustics (Sound insulation)	Laboratory measurement of airborne sound insulation of building elements	BS 2750: Part 3: 1995 BS EN ISO 140-3: 1995 + Amd. 1: 2004 / ISO 140-3: 1995 + Amd. 1: 2004 BS EN ISO 10140-2: 2010 / ISO 10140-2: 2010 BS EN ISO 10140-2: 2021 / ISO 10140-2: 2021 in conjunction with the following rating method(s): BS EN ISO 717-1: 1997 / ISO 717-1: 1996 BS EN ISO 717-1: 2020 / ISO 717-1: 2020
	建筑构件空气声隔声的实验室测量	GB/T 19889.3-2005 in conjunction with the following rating method: GB/T 50121-2005
	Laboratory measurement of intrinsic characteristics of airborne sound insulation for road traffic noise reducing devices	BS 2750: Part 3: 1995 BS EN ISO 140-3: 1995 + Amd. 1: 2004 / ISO 140-3: 1995 + Amd. 1: 2004 BS EN ISO 10140-2: 2010 / ISO 10140-2: 2010 BS EN ISO 10140-2: 2021 / ISO 10140-2: 2021 in conjunction with the following specification(s): BS EN 1793-2: 1998 BS EN 1793-2: 2018 BS EN 1793-3: 1998
	Laboratory measurement of airborne sound transmission loss of building partitions and elements	ASTM E90-04 ASTM E90-09 (2016) ASTM E90-23 in conjunction with the following rating method(s): ASTM E413-04 ASTM E413-16 ASTM E413-22 ASTM E1332-10a ASTM E1332-16 ASTM E1332-22
	Laboratory measurement of airborne sound insulation of small building elements	BS 2750: Part 3: 1995 BS EN ISO 140-3: 1995 + Amd. 1: 2004 / ISO 140-3: 1995 + Amd. 1: 2004 BS EN ISO 140-10: 1991 / ISO 140-10: 1991 BS EN ISO 10140-2: 2010 / ISO 10140-2: 2010 BS EN ISO 10140-2: 2021 / ISO 10140-2: 2021 in conjunction with the following rating method(s): BS EN ISO 717-1: 1997 / ISO 717-1: 1996 BS EN ISO 717-1: 2020 / ISO 717-1: 2020

Acoustics and Air Testing Laboratory Co. Ltd.
聲學及空氣測試實驗室有限公司
Room 422, Leader Industrial Centre, 57-59 Au Pui Wan Street, Fo Tan, Shatin, N.T., Hong Kong
香港新界沙田火炭坳背灣街 57-59 號利達工業中心 422 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Acoustics (Sound insulation) (cont'd)	Field measurement of airborne sound attenuation between rooms in buildings	ASTM E336-14 ASTM E336-14 with modifications ASTM E336-19a ASTM E336-19a with modifications ASTM E336-20 ASTM E336-20 with modifications ASTM E336-23 in conjunction with the following rating method(s): ASTM E413-04 ASTM E413-16 ASTM E413-22
	Field measurement of airborne sound insulation between rooms in buildings and of building elements	BS EN ISO 140-4: 1998 / ISO 140-4: 1998 BS EN ISO 140-4: 1998 / ISO 140-4: 1998 with Modifications in conjunction with the following rating method(s): BS EN ISO 717-1: 1997 / ISO 717-1: 1996 BS EN ISO 717-1: 2013 / ISO 717-1: 2013
	Field measurement of the normalized insertion loss of doors	ASTM E2964-19 ASTM E2964-21 in conjunction with the following rating method(s): ASTM E413-04 ASTM E413-16 ASTM E413-22
	Field measurements of airborne sound insulation of facade elements and facades	BS EN ISO 140-5: 1998 / ISO 140-5: 1998 in conjunction with the following rating method(s): BS EN ISO 717-1: 1997 / ISO 717-1: 1996 BS EN ISO 717-1: 2013 / ISO 717-1: 2013
Acoustics (Sound absorption)	Field measurement for decay rates and room sound absorption	ASTM C423-08a Annex X2 ASTM C423-09a Annex X2

Acoustics and Air Testing Laboratory Co. Ltd.
聲學及空氣測試實驗室有限公司
Room 422, Leader Industrial Centre, 57-59 Au Pui Wan Street, Fo Tan, Shatin, N.T., Hong Kong
香港新界沙田火炭坳背灣街 57-59 號利達工業中心 422 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Acoustics (Impact insulation)	Field measurement of impact sound insulation of floors in buildings and of building elements	BS EN ISO 140-7: 1998 / ISO 140-7: 1998 in conjunction with the following rating method(s): BS EN ISO 717-2: 1997 / ISO 717-2: 1996 BS EN ISO 717-2: 2013 / ISO 717-2: 2013
	楼板撞击声隔声的现场测量	GB/T 19889.7-2005 in conjunction with the following rating method: GB/T 50121-2005
	Field measurement of tapping machine impact sound transmission through floor-ceiling assemblies and associated support structures	ASTM E1007-04 ASTM E1007-19 ASTM E1007-21 in conjunction with the following rating method(s): ASTM E989-06 (2012) ASTM E989-18 ASTM E989-21
Acoustics (others)	Field measurement of background noise for rooms of Noise Criteria (NC) and/or Noise Rating (NR)	In-house method NC/NR
	Field measurement of reverberation time in ordinary rooms	BS EN ISO 3382-2: 2008 / ISO 3382-2: 2008 + Cor. 1: 2009

Acoustics and Air Testing Laboratory Co. Ltd.
聲學及空氣測試實驗室有限公司
Room 401, Leader Industrial Centre, 57-59 Au Pui Wan Street, Fo Tan, Shatin, N.T., Hong Kong
香港新界沙田火炭坳背灣街 57-59 號利達工業中心 401 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Acoustics (Sound absorption)	Laboratory measurement of sound absorption and sound absorption coefficients by the reverberation room method (Mounting Type: A, B, C, D, E & F)	ASTM C423-17 ASTM C423-22 ASTM C423-23 in conjunction with the following mounting method(s): ASTM E795-05 (2012) ASTM E795-16
	Laboratory measurement of sound absorption in a reverberation room (Mounting Type: A, B, E, I & J)	GB/T 20247-2006 BS EN ISO 354: 2003 / ISO 354: 2003 in conjunction with the following rating method(s): EN ISO 11654: 1997 / ISO 11654: 1997
	Laboratory measurement of intrinsic characteristics of sound absorption for road traffic noise reducing devices	BS EN ISO 354: 2003 / ISO 354: 2003 in conjunction with the following specification(s): BS EN 1793-1: 1998 BS EN 1793-1: 2017 BS EN 1793-3: 1998
Acoustics (Sound power level and sound energy level)	Field / Laboratory measurement of sound power levels and sound energy levels of noise sources using sound pressure in an essentially free field over a reflecting plane	BS EN ISO 3744: 2010 ISO 3744: 2010
	Laboratory measurement of sound power levels of noise sources using sound pressure - precision methods for semi-anechoic room	BS EN ISO 3745: 2009 / ISO 3745: 2009 BS EN ISO 3745: 2012 + Al: 2017 / ISO 3745: 2012 + Amd. 1: 2017
	Field / Laboratory measurement of sound power levels and sound energy levels of noise sources using sound pressure by an enveloping measurement surface over a reflecting plane	BS EN ISO 3746: 2010 / ISO 3746: 2010
	Laboratory measurement of sound power levels and sound energy levels of noise sources using sound pressure – precision methods for reverberation test rooms	BS EN ISO 3741: 2010 / ISO 3741: 2010
	Laboratory measurement of sound power levels of noise sources – engineering methods for small movable sources in reverberant fields – comparison method for hard-walled test rooms	BS EN ISO 3743-1: 2010 / ISO 3743-1: 2010

Acoustics and Air Testing Laboratory Co. Ltd.
聲學及空氣測試實驗室有限公司
Room 419, Leader Industrial Centre, 57-59 Au Pui Wan Street, Fo Tan, Shatin, N.T., Hong Kong
香港新界沙田火炭坳背灣街 57-59 號利達工業中心 419 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Acoustics (Sound insulation)	Laboratory measurements of airborne sound insulation of building elements	BS 2750: Part 3: 1995 BS EN ISO 140-3: 1995 + Amd. 1: 2004 / ISO 140-3: 1995 + Amd. 1: 2004 BS EN ISO 10140-2: 2010 / ISO 10140-2: 2010 BS EN ISO 10140-2: 2021 / ISO 10140-2: 2021 in conjunction with the following rating method(s): BS EN ISO 717-1: 1997 / ISO 717-1: 1996 BS EN ISO 717-1: 2020 / ISO 717-1: 2020
	建筑构件空气声隔声的实验室测量	GB/T 19889.3-2005 in conjunction with the following rating method: GB/T 50121-2005
	Laboratory measurement of airborne sound transmission loss of building partitions and elements	ASTM E90-04 ASTM E90-09 (2016) ASTM E90-23 in conjunction with the following rating method(s): ASTM E413-04 ASTM E413-16 ASTM E413-22 ASTM E1332-10a ASTM E1332-16 ASTM E1332-22
	Laboratory measurement of airborne sound insulation of small building elements	BS 2750: Part 3: 1995 BS EN ISO 140-3: 1995 + Amd. 1: 2004 / ISO 140-3: 1995 + Amd.1: 2004 BS EN ISO 140-10: 1991 / ISO 140-10: 1991 BS EN ISO 10140-2: 2010 / ISO 10140-2: 2010 BS EN ISO 10140-2: 2021 / ISO 10140-2: 2021 in conjunction with the following rating method(s): BS EN ISO 717-1: 1997 / ISO 717-1: 1996 BS EN ISO 717-1: 2020 / ISO 717-1: 2020

Acoustics and Air Testing Laboratory Co. Ltd.
聲學及空氣測試實驗室有限公司
Room 419, Leader Industrial Centre, 57-59 Au Pui Wan Street, Fo Tan, Shatin, N.T., Hong Kong
香港新界沙田火炭坳背灣街 57-59 號利達工業中心 419 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Acoustics (Sound insulation) (cont'd)	Laboratory measurement of intrinsic characteristics of airborne sound insulation for road traffic noise reducing devices	BS 2750: Part 3: 1995 BS EN ISO 140-3: 1995 +Amd. 1 : 2004 / ISO 140-3: 1995 + Amd 1: 2004 BS EN ISO 10140-2 : 2010 / ISO 10140-2 : 2010 BS EN ISO 10140-2 : 2021 / ISO 10140-2 : 2021 in conjunction with the following specification(s): BS EN 1793-2: 1998 BS EN 1793-2: 2018 BS EN 1793-3: 1998
	Laboratory measurement of the flanking transmission of airborne and impact sound between adjoining rooms – application to light elements when the junction has a small influence	BS EN ISO 10848-2: 2006 / ISO 10848-2: 2006 BS EN ISO 10848-2: 2017 / ISO 10848-2: 2017 ***<Excluding the following>*** for the above four standards Cl. 5.2.3 & 5.2.4 in conjunction with the following rating method(s): BS EN ISO 717-1: 1997 / ISO 717-1: 1996 BS EN ISO 717-1: 2020 / ISO 717-1: 2020 BS EN ISO 717-2: 1997 / ISO 717-2: 1996 BS EN ISO 717-2: 2020 / ISO 717-2: 2020

The Hong Kong University of Science and Technology -
Department of Mechanical and Aerospace Engineering -
Jockey Club Controlled Environment Test Facility
香港科技大學 - 機械及航空航天工程學系 - 賽馬會環境控制測試實驗所

ADDRESS 地址	:	Room 1213, The Hong Kong University of Science and Technology Clear Water Bay, Kowloon, Hong Kong 香港九龍清水灣香港科技大學1213室
ENQUIRY 查詢	:	Mr Matthew LAI, Senior Technical Officer 黎剛強先生，高級技術主任
TELEPHONE 電話	:	2358 8817
FAX 傳真	:	2358 8719
E-MAIL 電郵	:	mekklai@ust.hk
CLIENTELE 服務對象	:	Public 公眾

The Hong Kong University of Science and Technology -
Department of Mechanical and Aerospace Engineering -
Jockey Club Controlled Environment Test Facility
香港科技大學 – 機械及航空航天工程學系 – 賽馬會環境控制測試實驗所

ADDRESS **地址**	:	Room 1213, The Hong Kong University of Science and Technology Clear Water Bay, Kowloon, Hong Kong 香港九龍清水灣香港科技大學 1213 室
ACCREDITED TEST CATEGORY **認可測試類別**	:	Electrical and Electronic Products 電氣及電子產品

The Hong Kong University of Science and Technology -
Department of Mechanical and Aerospace Engineering -
Jockey Club Controlled Environment Test Facility
香港科技大學 – 機械及航空航天工程學系 – 賽馬會環境控制測試實驗所
Room 1213, The Hong Kong University of Science and Technology, Clear Water Bay, Kowloon, Hong Kong
香港九龍清水灣香港科技大學 1213 室

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Product performance tests :-	
Non-ducted air-conditioner with a rated cooling capacity not exceeding 10 kW	- Capacity and performance tests using air-enthalpy method :	ISO 5151: 2017
	- Cooling tests for test condition 'T1' - Cooling capacity test - Maximum cooling performance test - Minimum cooling, freeze-up air blockage and freeze-up drip performance tests - Freeze-up drip performance test - Condensate control and enclosure sweat performance test	Cl. 5
	- Heating tests for temperature condition "H1" - Heating capacity test - Maximum heating performance test	Cl. 6
	- Marking provisions	Cl. 9
Non-ducted air-conditioner with a rated cooling capacity not exceeding 7.5 kW	- Capacity and performance tests using air-enthalpy method :	Code of Practice on Energy Labelling of Products 2024 issued by EMSD Cl. 7 in conjunction with ISO 5151: 2017 + A1: 2020, ISO 16358-1: 2013 + A1: 2019, and ISO 16358-2: 2013
	- Cooling tests for test condition 'T1' - Cooling capacity test - Maximum cooling performance test	
	- Heating tests for temperature condition "H1" - Heating capacity test - Maximum heating performance test	
Non-ducted air conditioner - ceiling-mounted type or floor standing type with a cooling capacity not exceeding 10 kW - other types with a cooling capacity larger than 7.5 kW but not exceeding 10 kW	- Capacity and performance tests using air-enthalpy method :	The Hong Kong Voluntary Energy Efficiency Labelling Scheme for Room Air Conditioners January 2023 issued by EMSD Cl. 6 in conjunction with ISO 5151: 2017 + A1: 2020, ISO 16358-1: 2013 + A1: 2019, and ISO 16358-2: 2013
	- Cooling tests for test condition 'T1' - Cooling capacity test - Maximum cooling performance test	
	- Heating tests for temperature condition "H1" - Heating capacity test - Maximum heating performance test	

The Hong Kong University of Science and Technology -
Department of Mechanical and Aerospace Engineering -
Jockey Club Controlled Environment Test Facility
香港科技大學 – 機械及航空航天工程學系 – 賽馬會環境控制測試實驗所
Room 1213, The Hong Kong University of Science and Technology, Clear Water Bay, Kowloon, Hong Kong
香港九龍清水灣香港科技大學 1213 室

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Product performance tests :-	
Household refrigerating appliance	- Performance tests: - Measurement of storage volume of compartments - Measurement of storage temperatures of compartments - Energy consumption test - Temperature rise test - Freezing test (for food freezer or refrigerating appliance having food freezing compartment) - Rated characteristics and control procedure	IEC 62552: 2007 Cl. 7 Cl. 13 Cl. 15 Cl. 16 Cl. 17 Annex E
Household refrigerating appliance with a rated total storage volume not exceeding 500 litres	- Performance tests: - Measurement of storage volume of compartments - Measurement of storage temperatures of compartments - Energy consumption test - Freezing test (for food freezer or refrigerating appliance having food freezing compartment)	Code of Practice on Energy Labelling of Products 2023 issued by EMSD, Cl. 8 in conjunction with IEC 62552: 2007
Dehumidifier with rated dehumidifying capacity not exceeding 35 litres per day	- Performance tests : - Dehumidifying capacity test - Maximum operating conditions test	Code of Practice on Energy Labelling of Products 2024 issued by EMSD Cl. 11 in conjunction with ANSI/AHAM DH-1-2008
Dehumidifier with rated dehumidifying capacity above 35 litres per day but not exceeding 87 litres per day	- Performance tests : - Dehumidifying capacity test - Maximum operating conditions test	The Hong Kong Voluntary Energy Efficiency Labelling Scheme for Dehumidifiers January 2023 issued by EMSD Cl. 6 in conjunction with ANSI/AHAM DH-1-2008

Lee Kum Kee Company Limited – Testing Laboratory
李錦記有限公司 – 試驗室

ADDRESS : 2 - 4 Dai Fat Street, Tai Po Industrial Estate, Tai Po, New Territories, Hong Kong
地址 香港新界大埔大埔工業邨大發街 2 至 4 號

ENQUIRY : Mr Sherwin TY, Laboratory Manager
查詢 陳傑新先生，試驗室經理

TELEPHONE : 2660 3713
電話

FAX : 2662 3778
傳真

E-MAIL : sherwin.ty@lkk.com
電郵

WEBSITE ADDRESS : http://www.lkk.com/
網址

CLIENTELE : In-house laboratory, normally not available for public testing
服務對象 內部實驗室，通常只提供內部服務

Lee Kum Kee Company Limited – Testing Laboratory
李錦記有限公司 – 試驗室

ADDRESS : 2 - 4 Dai Fat Street, Tai Po Industrial Estate, Tai Po, New Territories, Hong Kong
地址 香港新界大埔大埔工業邨大發街 2 至 4 號

ACCREDITED TEST CATEGORY : Food 食品
認可測試類別

Lee Kum Kee Company Limited – Testing Laboratory
李錦記有限公司 – 試驗室
2 - 4 Dai Fat Street, Tai Po Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔大埔工業邨大發街 2 至 4 號

Food 食品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical test: -	
General foodstuff	- 3-chloro-1,2-propandiol (3-MCPD)	In-house Method WI/QAD/1/00095 (GC-MS)
Sauces and Condiments	Nutrition labelling:-	
	- Moisture	In-house Method WI/QAD/1/00099 (Gravimetric method)
	- Ash	In-house Method WI/QAD/1/00142 (Gravimetric method)
	- Total Nitrogen	In-house Method WI/QAD/1/00032 (Kjeldahl method)
	- Crude Protein	In-house Method WI/QAD/1/00032 (Kjeldahl method)
	- Fat	In-house Method WI/QAD/1/00109 (Acid hydrolysis method)
	- Sugars: - Sum of glucose, fructose, sucrose, maltose and lactose	In-house Method WI/QAD/1/00146 (HPLC-RI)
	- Total Dietary Fiber	AOAC Official Method 985.29 (2005) (Enzyme-Gravimetric method)
	- Calcium, iron, potassium and sodium	In-house Method WI/QAD/1/00167 (ICP-MS)
	Trace elements:- - Antimony, arsenic, cadmium, chromium, lead, mercury and tin	In-house Method WI/QAD/1/00171 (ICP-MS)
Sauces, condiments and edible oil	Nutrition labelling:-	
	- Saturated fatty acids ($C_{4:0}$, $C_{6:0}$, $C_{8:0}$, $C_{10:0}$, $C_{12:0}$, $C_{14:0}$, $C_{15:0}$, $C_{16:0}$, $C_{17:0}$, $C_{18:0}$, $C_{20:0}$, $C_{22:0}$, $C_{24:0}$)	AOAC Official Method 996.06 (2019) (Hydrolytic extraction gas chromatography)
	- Trans fatty acids ($C_{14:1T}$(9-*trans*), $C_{16:1T}$(9-*trans*), $C_{18:1T}$(total), $C_{18:2TT}$(9,12-*trans*), $C_{18:2T}$(9-cis,12-*trans*), $C_{18:2T}$(9-*trans*,12-*cis*), $C_{20:1T}$(11-*trans*), $C_{22:1T}$(13-*trans*))	AOAC Official Method 996.06 (2019) (Hydrolytic extraction gas chromatography)

Lee Kum Kee Company Limited – Testing Laboratory
李錦記有限公司 – 試驗室
2 - 4 Dai Fat Street, Tai Po Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔大埔工業邨大發街 2 至 4 號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Microbiological tests: -	
Sauces and Condiments	- Aerobic plate count	ISO 4833-1: 2013 (Pour plate method)
	- *Coliform* count	ISO 4832:2006 (Pour plate method)
	- Mould and yeast (total) counts	ISO 21527-2:2008 (Spread plate method)
	- Enumeration of coagulase-positive staphylococci	ISO 6888-1:2021

Enviro Labs Limited
環境化驗有限公司

ADDRESS : Room 611-612, Hong Leong Plaza, 33 Lok Yip Road, Fanling, New Territories, Hong Kong
地址 香港粉嶺樂業路 33 號豐隆廣場 611-612 室

ENQUIRY : Mr Harry LAI Kin-pong, Laboratory Manager
查詢 黎健邦先生，實驗室經理

TELEPHONE : 2676 2983
電話

FAX : 2676 2860
傳真

E-MAIL : info@envirolabs.com.hk
電郵

WEBSITE ADDRESS : http://www.envirolabs.com.hk/
網址

CLIENTELE : Public
服務對象 公眾

Contact details last updated on: 7 April 2025

Enviro Labs Limited
環境化驗有限公司
Room 611-612, Hong Leong Plaza, 33 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 33 號豐隆廣場 611-612 室

ADDRESS **地址**	:	Room 611-612, Hong Leong Plaza, 33 Lok Yip Road, Fanling, New Territories, Hong Kong 香港新界粉嶺樂業路 33 號豐隆廣場 611-612 室
ACCREDITED TEST CATEGORY **認可測試類別**	:	Chinese Medicine 中藥 Environmental Testing 環境測試 Food 食品 Miscellaneous 雜類

Enviro Labs Limited
環境化驗有限公司
Room 611-612, Hong Leong Plaza, 33 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 33 號豐隆廣場 611-612 室

Chinese Medicine 中藥

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Microbiological examinations :-	
Proprietary Chinese Medicines	- 微生物限度檢查法 Microbial Limit Test 細菌數 Aerobic bacterial count 霉菌與酵母菌數 Mould and Yeast count 大腸桿菌 *E. coli* 沙門菌 *Salmonella* species 銅綠假單胞菌 *Pseudomonas aeruginosa* 金黃色葡萄球菌 *Staphylococcus aureus*	中華人民共和國藥典2000年版一部附錄XIIIC Pharmacopoeia of the People's Republic of China 2000, Volume I, App. XIIIC
Proprietary Chinese Medicines	- Microbial Enumeration Tests and Tests for Specified Microorganisms 微生物計數法及控制菌檢查法 需氧菌總數Total Aerobic Microbial Count 霉菌和酵母菌總數 Total Combined Mold and Yeast Count 耐膽鹽革蘭陰性菌 Bile-tolerant Gram negative bacteria 大腸埃希菌 *E. coli* 沙門菌 *Salmonella species* 銅綠假單胞菌 *Pseudomonas aeruginosa* 金黃色葡萄球菌 *Staphylococcus aureus* 梭菌 *Clostridia* 白色念珠菌 *Candida albicans*	中華人民共和國藥典 2015 年版四部 1105 & 1106 段，非無菌產品微生物限度檢查: 微生物計數法及控制菌檢查法 Pharmacopoeia of the People's Republic of China 2015, Volume IV, Parts 1105 & 1106
Proprietary Chinese Medicines	- Microbial Enumeration Tests and Tests for Specified Microorganisms 微生物計數法及控制菌檢查法 需氧菌總數Total Aerobic Microbial Count 霉菌和酵母菌總數 Total Combined Mold and Yeast Count 耐膽鹽革蘭陰性菌 Bile-tolerant Gram negative bacteria 大腸埃希菌 *E. coli* 沙門菌 *Salmonella species* 銅綠假單胞菌 *Pseudomonas aeruginosa* 金黃色葡萄球菌 *Staphylococcus aureus* 梭菌 *Clostridia* 白色念珠菌 *Candida albicans*	中華人民共和國藥典 2020 年版四部 1105 & 1106 段，非無菌產品微生物限度檢查: 微生物計數法及控制菌檢查法 Pharmacopoeia of the People's Republic of China 2020, Volume IV, Parts 1105 & 1106

Enviro Labs Limited
環境化驗有限公司
Room 611-612, Hong Leong Plaza, 33 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 33 號豐隆廣場 611-612 室

Chinese Medicine 中藥		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Chemical and Physicochemical tests: -	
Chinese Materia Medica	- Sulphur Dioxide	In house method HOP-CM02 (by Titrimetric method)
	Pesticide Residue: -	
Proprietary Chinese Medicines except medicated oil	- Organochlorine Pesticide Aldrin, Dieldrin, Endrin, cis-Chlordane, trans-Chlordane, Oxychlordane, Heptachlor, Heptachlor epoxide, Hexachlorocyclohexane Alpha-BHC, Beta-BHC, Delta-BHC, Lindane, Hexachlorobenzene, Methyl pentachlorophenyl sulphide, Pentachloroaniline, Quintozene (pentachloronitrobenzene), 2,4'-DDT, 4,4'-DDT, 4,4'-DDE, 4,4'-DDD	In house method HOP-CM01 (by GC/MS)
	Toxic elements:-	
Proprietary Chinese Medicines	Arsenic, Cadmium, Mercury, Lead	In-house method HOP-CM03 (by Microwave digestion, ICP-MS)

Enviro Labs Limited
環境化驗有限公司
Room 611-612, Hong Leong Plaza, 33 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 33 號豐隆廣場 611-612 室

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Indoor Air Quality Testing	Extractable components collected in passive samplers: -	
	- Formaldehyde	In house method HOP-AR08 (by HPLC/DAD)
	- Nitrogen Dioxide	In house method HOP-AR07 (by UV-Vis)
	Extractable components collected in active samplers: -	
	- Formaldehyde	USEPA TO-11A (by HPLC/DAD) <excluding air sampling>
	Microbiological examinations:-	
Collectate sampled by 1. Single-stage N6 Andersen sampler, 2. Single-stage SAS Super IAQ sampler	Airborne bacteria count (number of colonies and corrected number of colonies on agar plate) (30℃ for 2 days)	In-house method HOP-MT22
Collectate sample on agar plate	Airborne bacteria count (number of colonies on agar plate) (30˚C for 2 days)	In-house method HOP-MT22

Enviro Labs Limited
環境化驗有限公司
Room 611-612, Hong Leong Plaza, 33 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 33 號豐隆廣場 611-612 室

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Saline water	Physical Examination:-	
	- Total suspended solids dried at 103-105°C	APHA 23e 2540D
	Non-metallic Constituents:-	
	- Nitrogen (Nitrate)	In-house Method HOP-EW49 (by FIA)
	- Nitrogen (Nitrite)	In-house Method HOP-EW49 (by FIA)
	- Nitrogen (Nitrate + Nitrite)	In-house Method HOP-EW49 (by FIA)

Enviro Labs Limited
環境化驗有限公司
Room 611-612, Hong Leong Plaza, 33 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 33 號豐隆廣場 611-612 室

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Water and Wastewater	Physical Examination:-	
	- Colour	APHA 23e 2120 B
	- pH	APHA 23e 4500-H^+ B
	- Turbidity	APHA 23e 2130 B
	- Total suspended solids dried at 103-105°C	APHA 23e 2540 D
	- Total solids dried at 103-105°C	APHA 23e 2540 B
	- Total dissolved solids dried at 180°C	APHA 23e 2540 C
	- Fixed solids ignited at 550°C	APHA 23e 2540 E
	- Total volatile solids ignited at 550°C	APHA 23e 2540 E
	- Volatile suspended solids ignited at 550°C	APHA 23e 2540 E
	- Settleable solids	APHA 23e 2540 F
	- Acidity (Total)	APHA 23e 2310 B
	- Acidity (Methyl orange)	APHA 23e 2310 B
	- Alkalinity (Total)	APHA 23e 2320 B
	- Alkalinity (Phenolphthalein)	APHA 23e 2320 B
	- Hardness	APHA 23e 2340 B (by calculation) APHA 23e 2340 C
	- Calcium hardness	In-house Method HOP-EW37 (by calculation)
	- Conductivity	APHA 23e 2510 B

Enviro Labs Limited
環境化驗有限公司
Room 611-612, Hong Leong Plaza, 33 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 33 號豐隆廣場 611-612 室

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Water and Wastewater (cont'd)	Non-metallic Constituents:-	
	- Cyanide (Total)	APHA 23e 4500 CN- C, D & E
	- Nitrogen (Ammonia)	APHA 23e 4500-NH_3 B & C APHA 23e 4500-NH_3 F In-house method HOP-EW61 (by Distillation and Titration Method)
	- Nitrogen (Nitrate)	In-house method HOP-EW49 (by FIA)
	- Nitrogen (Nitrite)	APHA 23e 4500-NO_2^- B In-house method HOP-EW49 (by FIA)
	- Nitrogen (Nitrate + Nitrite)	In-house method HOP-EW49 (by FIA)
	- Nitrogen (Total Kjeldahl)	APHA 23e 4500-N_{org} B & 4500-NH3 C In-house method HOP-EW62 (by Block Digestion and Titration Method)
	- Nitrogen (Organic) (Total Kjeldahl – Ammonia)	APHA 23e 4500-N_{org} B & 4500-NH3 C and APHA 23e-4500-NH_3 B & C (by calculation) In-house method HOP-EW62 and In-house method HOP-EW61 (by calculation)
	- Nitrogen (Total) (Total Kjeldahl + Nitrate + Nitrite)	APHA 23e 4500-N_{org} B and & 4500-NH_3 C and In-house method HOP-EW49 (by FIA) (by calculation) In-house method HOP-EW62 and In-house method HOP-EW49 (by calculation)
	- Ozone dose	In-house method HOP-EW42 (by Iodometric Titration method)
	- Phosphorus (Total)	APHA 23e 4500-P B5 & D
	- Phosphorus (Total reactive) (Orthophosphate)	APHA 23e 4500-P D

Enviro Labs Limited
環境化驗有限公司
Room 611-612, Hong Leong Plaza, 33 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 33 號豐隆廣場 611-612 室

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Water and Wastewater (cont'd)	Non-metallic Constituents (cont'd):-	
	- Chlorine (Total residual)	APHA 23e 4500-Cl B In-house method HOP-EW31 (by DPD colorimetric method) In-house method HOP-EW36 (by DPD colorimetric method)
	- Chlorine (Free residual)	In-house method HOP-EW36 (by DPD colorimetric method)
	- Chloride	APHA 23e 4500-Cl^- B
	- Sulphate	APHA 23e 4500-SO_4^{2-} E
	- Dissolved oxygen	APHA 23e 4500-O G
	- Sulphide	APHA 23e 4500-S^{2-} D
	- Soluble Sulphide	APHA 23e 4500-S^{2-} B & D
	Organic Pollutants:-	
	- 5-Day Biochemical Oxygen Demand	APHA 23e 5210 B BS6068-2.63:1998
	- Chemical oxygen demand	APHA 23e 5220 C APHA 23e 5220 B APHA 23e 5220 D
	- Oil & grease	APHA 23e 5520 B
Water	Physical Examination:-	
	- Oxidation-reduction potential	APHA 23e 2580 B
Water	Non-metallic Constituents:-	
	- Fluoride	APHA 23e 4500-F D
Potable Water	Organic Pollutants:-	
	Ultraviolet Absorption at 254nm	APHA 23e 5910 A & B

Enviro Labs Limited
環境化驗有限公司
Room 611-612, Hong Leong Plaza, 33 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 33 號豐隆廣場 611-612 室

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Water and Wastewater	Trace Metals:- (Total and acid extractable)	
	- Digestion procedures	APHA 23e 3030 E1 In-house method HOP-EW39 (Microwave acid digestion)
	- Aluminium, Antimony, Arsenic, Barium, Boron, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Tin, Thallium, Titanium, Vanadium, Zinc	In-house method HOP-EW63 (By ICP-OES)
	- Hexavalent Chromium (VI)	APHA 23e 3500-Cr B
Potable water (having turbidity < 1 NTU)	Trace elements:- (Total recoverable)	
	Antimony, Aluminium, Arsenic, Boron, Barium, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Mercury, Nickel, Selenium and Uranium	In house method HOP-EW59 (by ICP/MS)

Enviro Labs Limited
環境化驗有限公司
Room 611-612, Hong Leong Plaza, 33 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 33 號豐隆廣場 611-612 室

Environmental Testing 環境測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Water and Saline water	Organic Pollutants:-	
	- Polycyclic Aromatic Hydrocarbons: Naphthalene Benz(a)anthracene Acenaphthylene Chrysene Acenaphthene Benzo(b)fluoranthene Fluorene Benzo(k)fluoranthene Phenanthrene Benzo(a)pyrene Anthracene Indeno(1,2,3-cd)pyrene Fluoranthene Dibenz(a,h)anthracene Pyrene Benzo(g,h,i)perylene	In house method HOP-EW52 (by GC/MSD)
Solid and Semi-solid Wastewater Sludges	Physical Examination:-	
	- Total solids dried at 103-105°C	APHA 23e 2540 G
	- Fixed solids ignited at 550°C	APHA 23e 2540 G
	- Volatile solids ignited at 550°C	APHA 23e 2540 G
	- Settled sludge volume (SSV)	APHA 23e 2710 C
	- Sludge volume Index (SVI)	APHA 23e 2710 D

Enviro Labs Limited
環境化驗有限公司
Room 611-612, Hong Leong Plaza, 33 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 33 號豐隆廣場 611-612 室

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Water, Wastewater and Saline Water	Microbiological examinations:	
	- Heterotrophic plate count (35ºC colony count) (37ºC colony count)	APHA 23e 9215B
	- Total *Coliform* count	DoE (1983) The Bacteriological Examination of Drinking Water Supplies, 1982, Membrane Filtration Procedure: Sections 7.8 and 7.9.4.1 Bacterial Confirmation: Section 7.9.4.3 The Microbiology of Drinking Water (2002) – Part 4A Methods for the Examination of Waters and Associated Materials, Environment Agency, UK
	- Faecal *Coliform* count	DoE (1983) The Bacteriological Examination of Drinking Water Supplies, 1982, Membrane Filtration Procedure: Sections 7.8 and 7.9.4.2; Bacterial Confirmation: Section 7.7.6.3
	- *E. coli* count	DoE (1983) The Bacteriological Examination of Drinking Water Supplies, 1982, Membrane Filtration Procedure: Section 7.8 and 7.9.4.2 Bacterial Confirmation: Section 7.9.4.4 DoE (1983) The Bacteriological Examination of Drinking Water Supplies, 1982, Membrane Filtration Procedure: Section 7.8 and 7.9.4.2 Bacterial Confirmation: in-situ urease test The Microbiology of Drinking Water (2002) – Part 4A Methods for the Examination of Waters and Associated Materials, Environment Agency, UK

Enviro Labs Limited
環境化驗有限公司
Room 611-612, Hong Leong Plaza, 33 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 33 號豐隆廣場 611-612 室

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Microbiological examinations:	
Water and Wastewater	- Enumeration of *E. coli*	Environmental Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3, Environmental Protection Department, HK
	- Enumeration of Faecal *Coliforms*	Environmental Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3, Environmental Protection Department, HK
	- Enumeration of *Enterococci*	United States Environmental Protection Agency Method 1600: Enterococci in water by membrane filtration using membrane *Enterococcus* Indoxyl-β-D-Glucoside Agar (mEI)
Treated bathing water, Water for human use and consumption	- *Legionella* spp. including *Legionella pneumophila*	ISO 11731-2:2004 BS EN ISO 11731-2:2008 BS EN ISO 11731:2017
Water, wastewater and Cooling Tower Water	- *Legionellae* including *Legionella pneumophila*	AS/NZS 3896:1998 AS 3896: 2017
Marine Water	- Enumeration of *E. coli*	Environmental Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3, Environmental Protection Department, HK
	- Enumeration of Faecal *Coliforms*	Environmental Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3, Environmental Protection Department, HK
	- Enumeration of *Enterococci*	United States Environmental Protection Agency Method 1600: Enterococci in water by membrane filtration using membrane *Enterococcus* Indoxyl-β-D-Glucoside Agar (mEI)
Swimming pool, hydrotherapy pool and spa pool water	- Enumeration of *Staphylococcus aureus*	Health Protection Agency (2004) National Standard Method, W10, Issue 3.3

Enviro Labs Limited
環境化驗有限公司
Room 611-612, Hong Leong Plaza, 33 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 33 號豐隆廣場 611-612 室

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Microbiological examinations:-	
General foodstuff	- Aerobic Plate Count	AOAC Official Method 990.12 (2005)
	- *Coliform* Count	AOAC Official Method 991.14 (2005)
	- *E. coli* Count	AOAC Official Method 991.14 (2005)
	- Yeast and mold	AOAC Official Method 997.02 (2005)
	- Detection of *Salmonella* spp.	ISO 6579-1:2017/Amd 1: 2020 <***Excluding the following***> Annex D
	- Detection of *Vibrio parahaemolyticus*	ISO 21872-1: 2017/Amd1: 2023 <***Excluding the following***> Cl. 9.5.5 to 9.5.8
	- Detection of *Vibrio cholerae*	ISO21872-1:2017/Amd1: 2023 <***Excluding the following***> Cl. 9.5.5 to 9.5.8
	- Detection of *Listeria monocytogenes*	CHROMagar™ Listeria Confirmation by CHROMagar™ Identification Listeria
	- Enumeration of *Listeria monocytogenes*	CHROMagar™ Listeria Enumeration Confirmation by CHROMagar™ Identification Listeria
	- Enumeration of *Presumptive Bacillus cereus*	US FDA Bacteriological Analytical Manual Online (BAM online), Chapter 14, February 2012 Bacillus Cereus Rapid Agar (BACARA) without confirmation Bacillus Cereus Rapid Agar (BACARA) - AFNOR Validation Certificate no. AES-10/10-7/10
Selected food	- Enumeration of *Enterobacteriaceae*	AOAC 2003.01 (2006)

Enviro Labs Limited
環境化驗有限公司

Room 611-612, Hong Leong Plaza, 33 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 33 號豐隆廣場 611-612 室

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Microbiological examinations:-	
Selected types of processed and prepared food	- *Staphylococcus aureus*	AOAC Official Method 2003.07 (2006)
Selected Dairy Foods	- *Staphylococcus aureus*	AOAC Official Method 2003.08 (2005)
Selected Meat, Seafood, and poultry	- *Staphylococcus aureus*	AOAC Official Method 2003.11 (2005)
Swab of surfaces in contact with food	- Aerobic Plate Count	SN/T 1897/2007 (3M Petrifilm method)

Enviro Labs Limited
環境化驗有限公司
Room 611-612, Hong Leong Plaza, 33 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 33 號豐隆廣場 611-612 室

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Metals: -	
General foodstuff	- Boron, Sodium	In-house method HOP-FD01 (Microwave acid digestion) In-house method HOP-FD02 (By ICP-OES)
General foodstuff (Excluding bottled water)	- Antimony, Arsenic, Cadmium Chromium, Lead, Mercury, Tin	In-house method HOP-FD25 (Microwave acid digestion) In-house method HOP-FD26 (By ICP-MS)
Rice and Aquatic products	- Inorganic Arsenic Arsenic (III) and Arsenic (V)	In house method HOP-FD23 (by IC-ICP/MS)
Fish	- Methylmercury	In house method HOP-FD24 (by IC-ICP/MS)
	Organic contaminants:-	
General foodstuff	- Phthalates:	
	Di-(2-ethylhexyl) phthalate (DEHP) Benzyl butyl phthalate (BBP) Di-n-octyl phthalate (DNOP) Di-butyl phthalate (DBP) Di-isononyl phthalate (DINP) Di-isodecyl ortho- phthalate (DIDP)	In-house method HOP-FD04 (By GC/MSD)
	– Melamine	In house method HOP-FD20 (By LC-MS/MS)
	Preservatives :-	
Drinks and Beverages	- Benzoic acid, Sorbic acid, Methyl para-hydroxybenzoate, Ethyl para-hydroxybenzoate and Propyl para-hydroxybenzoate	In house method HOP-FD03 (By HPLC/DAD) In house method HOP-FD09 (Confirmation test by LC/MS/MS)
General foodstuff	- Boric acid and borates	In-house method HOP-FD05 (By ICP-OES)
	Mycotoxins: -	
Oils, nuts and cereals	- Aflatoxins B_1, B_2, G_1, G_2 and - Aflatoxins total (B_1+B_2+G_1+G_2)	In-house method HOP-FD27 (by LC-MS/MS)

Enviro Labs Limited
環境化驗有限公司
Room 611-612, Hong Leong Plaza, 33 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 33 號豐隆廣場 611-612 室

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Veterinary drug residues: -	
Aquatic Products	- Malachite green and Leucomalachite green	In house method HOP-FD22 (By LC/MS/MS)
	Pesticide residues: -	
Fruit and Vegetables ***<Excluding the following>*** Alliums vegetables such as garlic, onion, leek and chives	Organochlorine pesticides: - Aldrin, cis-Chlordane, trans-Chlordane, Dieldrin, Endrin, Heptachlor, Heptachlor epoxide, Hexachlorobenzene, Alpha-BHC, Beta-BHC, Delta-BHC, Lindane, Oxychlordane, Methyl pentachlorophenyl sulphide and Pentachloroaniline Quintozene (pentachloronitrobenzene) 2,4'-DDT, 2,4'-DDD, 2,4'-DDE, 4,4'-DDT, 4,4'-DDE, 4,4'-DDD, Chlorothalonil, Chlorfenapyr, Dichlorbenil, Mirex, Dicofol, Endosulfan I, Endosulfan II, Endosulfan sulfate, Methoxychlor, Procymidone, Tetradifon, Trifluralin and Vinclozolin	In-house method HOP-FD06 (By GC/μECD and GC/MSD)

Enviro Labs Limited
環境化驗有限公司

Room 611-612, Hong Leong Plaza, 33 Lok Yip Road, Fanling, New Territories, Hong Kong
香港新界粉嶺樂業路 33 號豐隆廣場 611-612 室

Miscellaneous 雜類

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Microbiological examinations :-	
衛生紙 Toilet tissue paper	微生物指標 Microbiological Quality 細菌菌落總數 Aerobic Bacterial Count 大腸菌群 Coliform 金黃色葡萄球菌 *Staphylococcus aureus* 溶血性鏈球菌 Hemolytic streptococci	GB/T 20810-2018 中華人民共和國國家標準: 衛生紙（含衛生紙原紙）(附錄 C 微生物指標的測定) GB/T 20810-2018 Toilet tissue paper (including toilet tissue base paper) (Appendix C)
擦手紙 Hand towel	微生物指標 Microbiological Quality 細菌菌落總數 Aerobic Bacterial Count 大腸菌群 Coliform 金黃色葡萄球菌 *Staphylococcus aureus* 溶血性鏈球菌 Hemolytic streptococci 銅綠假單胞菌 *Pseudomonas aeruginosa* 真菌菌落總數Fungal Count	GB/T 24455-2022 中華人民共和國國家標準: 擦手紙 (附錄 E 微生物檢測方法) GB/T 24455-2022 Hand towel (Appendix E)
一次性使用衛生用品 Disposable sanitary products	微生物指標 Microbiological Quality - 細菌菌落總數 Aerobic Bacterial Count - 大腸菌群 Coliform - 綠膿桿菌 *Pseudomonas aeruginosa* - 金黃色葡萄球菌 *Staphylococcus aureus* - 溶血性鏈球菌 Hemolytic streptococci - 真菌菌落總數 Fungal Count	GB 15979-2002 中華人民共和國家標準: 一次性使用衛生用品衛生標準 (附錄 B 產品微生物檢測方法) GB 15979-2002 Hygienic standard for disposable sanitary products (Appendix B)
廚房紙巾 Kitchen towel	微生物指標 Microbiological Quality - 細菌菌落總數 Aerobic Bacterial Count - 大腸菌群 Coliform - 銅綠假單胞菌 *Pseudomonas aeruginosa* - 金黃色葡萄球菌 *Staphylococcus aureus* - 溶血性鏈球菌 Hemolytic streptococci - 真菌菌落總數 Fungal Count	GB/T 26174-2023 中華人民共和國家標準: 廚房紙巾（附錄 E 微生物的測定） GB/T 26174-2023 Kitchen towel (Appendix E)

Eurofins MTS Consumer Product Testing Hong Kong Limited
歐陸現代商品檢測(香港)有限公司

ADDRESS 地址	:	701-706, 801-807 & 816, CEO Tower, 77 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong 香港九龍長沙灣永康街 77 號環薈中心 701-706，801-807 及 816 室
ENQUIRY 查詢	:	Mr Raymond FONG Wai-man, QA and Production Control Manager 方偉文先生，品質及生產控制經理
TELEPHONE 電話	:	3604 1363
FAX 傳真	:	--
E-MAIL 電郵	:	raymond.fong@cpt.eurofinscn.com
WEBSITE ADDRESS 網址	:	www.mts-global.com
CLIENTELE 服務對象	:	Public 公眾

Eurofins MTS Consumer Product Testing Hong Kong Limited
歐陸現代商品檢測(香港)有限公司

ADDRESS **地址**	:	701-706, 801-807 & 816, CEO Tower, 77 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong 香港九龍長沙灣永康街 77 號環薈中心 701-706，801-807 及 816 室
ACCREDITED TEST CATEGORY **認可測試類別**	:	Chemical Testing 化學測試 Textiles and Garments 紡織品及成衣 Toys and Children's Products 玩具及兒童產品

Eurofins MTS Consumer Product Testing Hong Kong Limited
歐陸現代商品檢測(香港)有限公司
701-706, 801-807 & 816, CEO Tower, 77 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong
香港九龍長沙灣永康街 77 號環薈中心 701-706，801-807 及 816 室

Chemical Testing 化學測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests: -	
Plastics	Cadmium content	Regulation (EC) No. 1907/2006 on REACH Annex XVII Item No 23 as amended by Commission Regulation (EU) No. 494/2011 *Compliance test procedures for cadmium content:* EN 1122: 2001 Method B (wet decomposition) BS EN 1122: 2001 Method B (wet decomposition)

Eurofins MTS Consumer Product Testing Hong Kong Limited
歐陸現代商品檢測(香港)有限公司
701-706, 801-807 & 816, CEO Tower, 77 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong
香港九龍長沙灣永康街 77 號環薈中心 701-706，801-807 及 816 室

Chemical Testing 化學測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests: - (cont'd)	
Products made from leather products	Amine (Azo colorants) : 1) 4-aminodiphenyl 2) benzidine 3) 4-chloro-o-toluidine 4) 2-naphthylamine 5) o-aminoazotoluene 6) 5-nitro-o-toluidine 7) 4-chloroaniline 8) 4-methoxy-m-phenylenediamine 9) 4,4'-methylenedianiline 10) 3,3'-dichlorobenzidine 11) 3,3'-dimethoxybenzidine 12) 3,3'-dimethylbenzidine 13) 4,4'-methylene-di-o-toluidine 14) p-cresidine 15) 4,4'-methylene-bis-(2-chloro-aniline) 16) 4,4'-oxydianiline 17) 4,4'-thiodianiline 18) o-toluidine 19) 4-methyl-m-phenylendiamine 20) 2,4,5-trimethylaniline 21) o-anisidine 22) 4-aminoazobenzene	Regulation (EC) No. 1907/2006 on REACH Annex XVII Item No 43 as amended by Commission Regulation (EC) No. 552/2009 and Commission Regulation (EC) No. 2020/2096 *Test procedures for compliance testing for leather products:* ISO 17234-1: 2015 (for determination of the amines listed on the left and does not include 4-aminoazobenzene) ISO 17234-2: 2011 (for determination of 4-aminoazobenzene) Techniques used are GC-MSD and HPLC-DAD for all test methods listed above

Eurofins MTS Consumer Product Testing Hong Kong Limited
歐陸現代商品檢測(香港)有限公司
701-706, 801-807 & 816, CEO Tower, 77 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong
香港九龍長沙灣永康街 77 號環薈中心 701-706，801-807 及 816 室

Chemical Testing 化學測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests: - (cont'd)	
Textile products	Amine (Azo colorants) : 1) 4-aminodiphenyl 2) benzidine 3) 4-chloro-o-toluidine 4) 2-naphthylamine 5) o-aminoazotoluene 6) 5-nitro-o-toluidine 7) 4-chloroaniline 8) 4-methoxy-m-phenylenediamine 9) 4,4'-methylenedianiline 10) 3,3'-dichlorobenzidine 11) 3,3'-dimethoxybenzidine 12) 3,3'-dimethylbenzidine 13) 4,4'-methylene-di-o-toluidine 14) p-cresidine 15) 4,4'-methylene-bis-(2-chloro-aniline) 16) 4,4'-oxydianiline 17) 4,4'-thiodianiline 18) o-toluidine 19) 4-methyl-m-phenylendiamine 20) 2,4,5-trimethylaniline 21) o-anisidine 22) 4-aminoazobenzene	Regulation (EC) No. 1907/2006 on REACH Annex XVII Item No 43 as amended by Commission Regulation (EC) No. 552/2009 and Commission Regulation (EC) No. 2020/2096 *Test procedures for compliance testing of textile products:* EN ISO 14362-1: 2017 (for determination of the amines listed on the left except 4-aminoazobenzene) EN ISO 14362-3: 2017 (for determination of 4-aminoazobenzene) Techniques used are GC-MSD and HPLC-DAD for all test methods listed above

Eurofins MTS Consumer Product Testing Hong Kong Limited
歐陸現代商品檢測(香港)有限公司
701-706, 801-807 & 816, CEO Tower, 77 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong
香港九龍長沙灣永康街 77 號環薈中心 701-706，801-807 及 816 室

Chemical Testing 化學測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests: - (cont'd)	
Products made of textile 紡織品	Amine (Azo colourants): 芳香胺(偶氮染料) 1) 4-氨基聯苯(4-aminodiphenyl) 2) 聯苯胺(benzidine) 3) 4-氯鄰甲苯胺(4-chloro-o-toluidine) 4) 2-萘胺(2-naphthylamine) 5) 鄰氨基偶氮甲苯(o-aminoazotoluene) 6) 5-氨基-4-硝基甲苯(5-nitro-o-toluidine) 7) 對氯苯胺(4-chloroaniline) 8) 2,4-二氨基苯甲醚 (4-methoxy-m-phenylenediamine) 9) 4,4'-二氨基二苯甲烷 (4,4'-methylenedianiline) 10) 3,3'-二氯聯苯胺 (3,3'-dichlorobenzidine) 11) 3,3'-二甲氧基聯苯胺 (3,3'-dimethoxybenzidine) 12) 3,3'-二甲基聯苯胺 (3,3'-dimethylbenzidine) 13) 4,4'二氨基二苯甲烷 (4,4'-methylene-di-o-toluidine) 14) 3-氨基對甲苯甲醚(p-克利酊) (p-cresidine) 15) 4,4'-次甲基-雙-(2-氯苯胺) (4,4'-methylene-bis-(2-chloro-aniline)) 16) 4,4'-二氨基二苯醚(4,4'-oxydianiline) 17) 4,4'-二氨基二苯硫醚 (4,4'-thiodianiline) 18) 鄰甲苯胺(o-toluidine) 19) 2,4'-二氨基甲苯 (4-methyl-m-phenylendiamine) 20) 2,4,5-三甲基苯胺 (2,4,5- trimethylaniline) 21) 鄰甲基苯胺(鄰氨基苯甲醚) (o-anisidine) 22) 4-氨基偶氮苯(4-aminoazobenzene) 23) 2,4-二甲基苯胺(2,4-xylidine) 24) 2,6-二甲基苯胺(2,6-xylidine)	GB 18401-2010 Cls. 5.1,附录 C and 6.8 *Test procedures for compliance testing*: GB/T 17592-2011 (for determination of the amines listed on the left and does not include 4-aminoazobenzene) GB/T 23344-2009 (for determination of 4-aminoazobenzene) Techniques used are GC-MSD and HPLC-DAD

Eurofins MTS Consumer Product Testing Hong Kong Limited
歐陸現代商品檢測(香港)有限公司
701-706, 801-807 & 816, CEO Tower, 77 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong
香港九龍長沙灣永康街 77 號環薈中心 701-706，801-807 及 816 室

Chemical Testing 化學測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests: - (cont'd)	
Products made of leather and fur 皮革和毛皮	Amine (Azo colourants): 芳香胺(偶氮染料) 1) 4-氨基聯苯 (4-aminodiphenyl) 2) 聯苯胺 (benzidine) 3) 4-氯鄰甲苯胺(4-chloro-o-toluidine) 4) 2-萘胺(2-naphthylamine) 5) 鄰氨基偶氮甲苯(o-aminoazotoluene) 6) 5-氨基-4-硝基甲苯(5-nitro-o-toluidine) 7) 對氯苯胺(4-chloroaniline) 8) 2,4-二氨基苯甲醚 (4-methoxy-m-phenylenediamine) 9) 4,4'-二氨基二苯甲烷 (4,4'-methylenedianiline) 10) 3,3'-二氯聯苯胺 (3,3'-dichlorobenzidine) 11) 3,3'-二甲氧基聯苯胺 (3,3'-dimethoxybenzidine) 12) 3,3'-二甲基聯苯胺 (3,3'-dimethylbenzidine) 13) 4,4'二氨基二苯甲烷 (4,4'-methylene-di-o-toluidine) 14) 3-氨基對甲苯甲醚(p-克利酊) (p-cresidine) 15) 4,4'-次甲基-雙-(2-氯苯胺) (4,4'-methylene-bis-(2-chloro-aniline)) 16) 4,4'-二氨基二苯醚(4,4'-oxydianiline) 17) 4,4'-二氨基二苯硫醚 (4,4'-thiodianiline) 18) 鄰甲苯胺(o-toluidine) 19) 2,4'-二氨基甲苯 (4-methyl-m-phenylendiamine) 20) 2,4,5-三甲基苯胺 (2,4,5-trimethylaniline) 21) 鄰甲基苯胺(鄰氨基苯甲醚) (o-anisidine) 22) 2,4-二甲基苯胺(2,4-xylidine) 23) 2,6-二甲基苯胺(2,6-xylidine)	GB20400-2006 Cl. 5, 附录 A & Cl. 6.1 *Test procedures for compliance testing*: GB/T 19942-2005 Techniques used are GC-MSD and HPLC-DAD

Eurofins MTS Consumer Product Testing Hong Kong Limited
歐陸現代商品檢測(香港)有限公司
701-706, 801-807 & 816, CEO Tower, 77 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong
香港九龍長沙灣永康街 77 號環薈中心 701-706，801-807 及 816 室

Textiles and Garments 紡織品及成衣

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Care performance test :-	
General textiles and garments 一般紡織品及成衣	- Wash & wear performance	AATCC Test Method 124-1996 AATCC Test Method 124-2006 AATCC Test Method 124-2011 AATCC Test Method 124-2014 AATCC Test Method 124-2018 AATCC Test Method 124-2018t
	Chemical analysis:-	
General textiles and garments 一般紡織品及成衣	- Free formaldehyde content 游離甲醛含量	GB/T 18401-2010 Cl. 6.1 *Test procedure for compliance testing:* GB/T 2912.1-2009
	- pH value pH 值	GB/T 18401-2010 Cl. 6.2 *Test procedure for compliance testing:* GB/T 7573-2009
Other Materials - Leather and fur 皮革和毛皮	- Formaldehyde content 甲醛含量	GB 20400-2006 Cl. 5 *Test procedure for compliance testing:* GB/T 19941.2-2019 ***<Excluding the following>*** Cl. 6.5

Eurofins MTS Consumer Product Testing Hong Kong Limited
歐陸現代商品檢測(香港)有限公司
701-706, 801-807 & 816, CEO Tower, 77 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong
香港九龍長沙灣永康街 77 號環薈中心 701-706，801-807 及 816 室

Textiles and Garments 紡織品及成衣		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Colour fastness test :-	
General textiles and garments 一般紡織品及成衣	- Perspiration 耐汗漬色牢度	AATCC Test Method 15-2021 (rating determined by AATCC Gray Scale) AS 2001.4.E04-2005 (Reconfirmed) 2016-08-05 BS EN ISO 105-E04: 2013 (rating determined by AATCC Gray Scale) GB/T 3922-2013
	- Rubbing 耐摩擦色牢度	AATCC Test Method 8-2016 (rating determined by AATCC Gray Scale) AS 2001.4.3-1995 (Reconfirmed) 2016-08-05 BS EN ISO 105 X12: 2016 GB/T 3920-2008 ***<Excluding the following>*** tests for carpets or textile floor coverings
	- Saliva 耐唾液色牢度	GB/T 18886-2019
	- Washing	AATCC Test Method 61-2013e (2020) (rating determined by AATCC Gray Scale)
	- Water 耐水色牢度	AATCC Test Method 107-2013 (rating determined by AATCC Gray Scale) AS 2001.4.E01-2001 (Reconfirmed) 2016-08-05 BS EN ISO 105-E01: 2013 (rating determined by AATCC Gray Scale) GB/T 5713: 2013
	Flammability test :-	
General textiles and garments 一般紡織品及成衣	- 45° angle test	ASTM D1230-22 US 16 CFR Part 1610
	- Vertical test	US 16 CFR Part 1615 US 16 CFR Part 1616
	Performance test :-	
General textiles and garments 一般紡織品及成衣	- Odour 異味	GB 18401-2010 Cl. 6.7

Eurofins MTS Consumer Product Testing Hong Kong Limited
歐陸現代商品檢測(香港)有限公司
701-706, 801-807 & 816, CEO Tower, 77 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong
香港九龍長沙灣永康街 77 號環薈中心 701-706，801-807 及 816 室

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests :-	
Toys made of plastics	- Cadmium content	Regulation (EC) No. 1907/2006 on REACH Annex XVII Item No. 23 as amended by Commission Regulation (EU) No. 494/2011 *Test procedures for compliance testing*: EN 1122: 2001 Method B (wet decomposition) BS EN 1122: 2001 Method B (wet decomposition)
All toys	- Migration of the elements Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	ISO 8124-3: 2020 (for dewaxing: Method A only) AS/NZS ISO 8124.3: 2021 (for dewaxing: Method A only)
All toys - paints and similar surface coating materials	- Total Lead content	ASTM F963-23 Cl 4.3.5.1 (1) *Test procedures for compliance testing:* CPSC Test method: CPSC-CH-E1003-09.1 Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings, February 25, 2011
	- Migration of the elements Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	ASTM F963-23 Cl. 4.3.5.1 (2) *Test procedures for compliance testing:* Cl. 8.3.2-8.3.4

Eurofins MTS Consumer Product Testing Hong Kong Limited
歐陸現代商品檢測(香港)有限公司
701-706, 801-807 & 816, CEO Tower, 77 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong
香港九龍長沙灣永康街 77 號環薈中心 701-706，801-807 及 816 室

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Chemical tests: - (cont'd)	
Toys – substrate materials	- Total lead content	ASTM F963-23 Cl 4.3.5.2.(2)(a) *Test Procedures for Compliance testing:* CPSC Test Method: CPSC-CH-E1001-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Children's Metal Products (Including Children's Metal Jewelry), November 15, 2012 ***<Excluding the following>*** XRF Spectrometry CPSC Test Method: CPSC-CH-E1002-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Non-Metal Children's Products , November 15, 2012 ***<Excluding the following>*** XRF Spectrometry
	- Migration of the elements Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	ASTM F963-23 Cl 4.3.5.2 (2)(b) & (c) *Test procedures for compliance testing:-* Clause 8.3.5
Metallic toys or metallic toy components	- Extractable Cadmium	ASTM F963-23 Cl. 4.3.5.2 (2) (d) *Test Procedures for Compliance testing:* Cl. 8.3.5.5(3) and CPSC Test Method: CPSC-CH-E1004-11 Standard Operating Procedure for Determining Cadmium (Cd) Extractability from Children's Metal Jewelry, February 03, 2011 (with modification using Flame AAS for determination)
Toys and other articles intended for use by children – paint and other similar surface-coating materials	- Total lead content	16 US CFR 1303 US Public Law 110 -314 Consumer Product Safety Improvement Act 2008 *Test procedures for compliance testing:* CPSC Test method: CPSC-CH-E1003-09.1 Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings, February 25, 2011

Eurofins MTS Consumer Product Testing Hong Kong Limited
歐陸現代商品檢測(香港)有限公司
701-706, 801-807 & 816, CEO Tower, 77 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong
香港九龍長沙灣永康街 77 號環薈中心 701-706，801-807 及 816 室

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests: - (cont'd)	
Children's metal products	- Total lead content	US Public Law 110 -314 Consumer Product Safety Improvement Act 2008 *Test Procedures for Compliance testing*: CPSC Test Method: CPSC-CH-E1001-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Children's Metal Products (Including Children's Metal Jewelry), November 15, 2012 ***<Excluding the following>*** XRF Spectrometry
Children's non-metal products	- Total lead content	US Public Law 110 -314 Consumer Product Safety Improvement Act 2008 *Test Procedures for Compliance testing*: CPSC Test Method: CPSC-CH-E1002-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Non-Metal Children's Products, November 15, 2012 ***<Excluding the following>*** XRF Spectrometry
Toys and childcare articles	Di-(2-ethylhexyl) phthalate (DEHP) Dibutyl phthalate (DBP) Benzyl butyl phthalate (BBP) Diisononyl phthalate (DINP) Di-n-pentyl phthalate (DPENP) Di-n-hexyl phthalate (DHEXP) Dicyclohexyl phthalate (DCHP) Diisobutyl phthalate (DIBP)	US Public Law 110 -314 Consumer Product Safety Improvement Act 2008 and US 16 CFR Part 1307, Title I, Section 108 *Test Procedures for Compliance testing*: CPSC Test Method: CPSC-CH-C1001-09.4 Standard Operation Procedure for Determination of Phthalate, January 17, 2018
Toys and childcare articles	Dibutyl phthalate (DBP) Di-(2-ethylhexyl) phthalate (DEHP) Benzyl butyl phthalate (BBP) Diisobutyl phthalate (DIBP) Diisononyl phthalate (DINP) Di-n-pentyl phthalate (DPENP) Di-n-hexyl phthalate (DHEXP) Dicyclohexyl phthalate (DCHP)	ASTM F963-23 Cl. 4.3.8 *Test Procedures for Compliance testing:* CPSC Test Method: CPSC-CH-C1001-09.4 Standard Operating Procedure for Determination of Phthalates, January 17, 2018

Eurofins MTS Consumer Product Testing Hong Kong Limited
歐陸現代商品檢測(香港)有限公司
701-706, 801-807 & 816, CEO Tower, 77 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong
香港九龍長沙灣永康街 77 號環薈中心 701-706，801-807 及 816 室

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests :- (cont'd)	
All toys and children's products - surface coating materials	- Total Lead content	Canada Consumer Product Act – Toys Regulations, Item 23, SOR/2011-17 February 3, 2011 *Test procedures for compliance testing:* Health Canada Product Safety Reference manual Book 5–Laboratory Policies and Procedures Part B: Test Method Section, Method C-02.2: Determination of Total Lead in Surface Coating Materials in Consumer Products (2008-11-3)
	- Total Mercury content	*Test procedures for compliance testing:* In-house method: SOP-0058
	- Leachable Arsenic, Selenium, Cadmium, Antimony and Barium	*Test procedures for compliance testing:* Health Canada Product Safety Reference manual Book 5 – Laboratory Policies and Procedures Part B: Test Methods Section, *Method C-03*: Determination of Leachable Arsenic (As), Selenium (Se), Cadmioum (Cd), Antimony (Sb) and Barium (Ba) in Applied Coatings (2009-06-15)
Surface coating	- Total Lead content	The Surface Coating Materials Regulations, SOR/2005-109, with Amds. SOR/2011-14, February 4, 2011, Articles with a surface coating material, 7.2 & 7.3 *Test procedures for compliance testing:* Health Canada Product Safety Reference manual Book 5–Laboratory Policies and Procedures Part B: Test Method Section, Method C-02.2: Determination of Total Lead in Surface Coating Materials in Consumer Products (2008-11-3)

Eurofins MTS Consumer Product Testing Hong Kong Limited
歐陸現代商品檢測(香港)有限公司
701-706, 801-807 & 816, CEO Tower, 77 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong
香港九龍長沙灣永康街 77 號環薈中心 701-706，801-807 及 816 室

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests :- (cont'd)	
Toys Category III toy materials: Scraped-off materials	- Migration of certain elements	BS EN 71-3:2019+A1:2021 EN 71-3:2019+A1:2021
	- Aluminium, Antimony, Arsenic, Barium, Boron, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Mercury, Nickel, Selenium, Strontium, Tin and Zinc	Technique used: ICP-MS
	- Chromium (for screening for Cr(VI))	Alternative method as documented in SOP-0001d (ICP-MS)
	- Organic Tin: Methyl tin, Dimethyl tin, Butyltin, Dibutyl tin, Tributyl tin, Tetrabutyl tin, n-Octyl tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin, Triphenyl tin	Technique used: GC-MS

Eurofins MTS Consumer Product Testing Hong Kong Limited
歐陸現代商品檢測(香港)有限公司
701-706, 801-807 & 816, CEO Tower, 77 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong
香港九龍長沙灣永康街 77 號環薈中心 701-706，801-807 及 816 室

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Electrical tests :-	
Battery operated toy	- Safety requirements and test methods	ASTM F963-23 Cl. 4.25 ***<Excluding the following>*** Cl. 4.25.7.1, 4.25.9, 4.25.10

Eurofins MTS Consumer Product Testing Hong Kong Limited
歐陸現代商品檢測(香港)有限公司
701-706, 801-807 & 816, CEO Tower, 77 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong
香港九龍長沙灣永康街 77 號環薈中心 701-706，801-807 及 816 室

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Flammability tests :-	
Toys	- Safety requirements and test methods	AS/NZS ISO 8124.2: 2016 ISO 8124-2: 2014 ***<Excluding the following>*** for the above two standards Tests for flammable gas, extremely flammable liquid, highly flammable liquid, flammable liquid and flammable gel
	- Safety requirements and test methods	ISO 8124-2: 2023 ***<Excluding the following>*** Tests for flammable gas, extremely flammable liquid, highly flammable liquid, flammable liquid and flammable gel
	- Safety requirements and test methods	BS EN 71-2: 2020 EN 71-2: 2020 ***<Excluding the following>*** for the above two standards Tests for flammable gas, extremely flammable liquid, highly flammable liquid, flammable liquid and flammable gel
	- Safety requirements and test methods	16 CFR Part 1500.44
	- Safety requirements and test methods	ASTM F963-23 Cl. 4.2

Eurofins MTS Consumer Product Testing Hong Kong Limited
歐陸現代商品檢測(香港)有限公司
701-706, 801-807 & 816, CEO Tower, 77 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong
香港九龍長沙灣永康街 77 號環薈中心 701-706，801-807 及 816 室

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術	
	Physical and mechanical tests :-		
Toys other than large and bulky toys	- Safety requirements and test methods	AS/NZS ISO 8124.1:2019 + Amd. 1: 2020 + Amd. 2: 2020 ISO 8124-1: 2018 + Amd. 1: 2020 + Amd. 2: 2020 ***<Excluding the following>*** for the above two standards Cl. 4.8.2, 4.12.1, 4.12.2, 4.15, 4.16.2.2, 4.18.4.1, 4.21, 4.22, 4.23, 4.26(c), 4.28, 4.29(f), 4.29(g) and 4.30	
Large and bulky toys	- Tip-over test	AS/NZS ISO 8124.1:2019 + Amd. 1: 2020 + Amd. 2: 2020 ISO 8124-1: 2018 + Amd. 1: 2020 + Amd. 2: 2020 for the above two standards Cl. 5.24.3	.vs. .vs.
Toys other than large and bulky toys	- Safety requirements and test methods	AS/NZS ISO 8124.1: 2023 ISO 8124-1: 2022 ***<Excluding the following>*** for the above two standards Cl. 4.8.2, 4.12.1, 4.12.2, 4.15, 4.16.2.2, 4.18.4.1, 4.21, 4.22, 4.23, 4.26(c), 4.28, 4.29(f), 4.29(g) and 4.30	
Large and bulky toys	- Tip-over test	AS/NZS ISO 8124.1: 2023 ISO 8124-1: 2022 for the above two standards Cl. 5.24.3	.vs. .vs.
Toys other than large and bulky toys	- Safety requirements and test methods	ASTM F963-23 Section 4.1, 4.3.7, 4.5, 4.6, 4.7, 4.8, 4.9, 4.10, 4.11, 4.12, 4.14, 4.16, 4.17, 4.18, 4.19, 4.20, 4.20.2, 4.21, 4.22, 4.23, 4.23.1, 4.23.2, 4.24, 4.26, 4.27, 4.28, 4.30, 4.31, 4.32, 4.33, 4.34, 4.35, 4.36, 4.38, 4.39 and 4.40 ***<Excluding the following>*** Section 4.1 (examination of reprocessed materials to 4.3.1), 4.5.1.7, 4.6.2.2, 4.8.1 and 4.20.1	
	- Safety labeling requirements	Section 5	
	- Instructional literature	Section 6	
	- Producer's markings	Section 7	
	- Test Methods	Section 8	

Eurofins MTS Consumer Product Testing Hong Kong Limited
歐陸現代商品檢測(香港)有限公司
701-706, 801-807 & 816, CEO Tower, 77 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong
香港九龍長沙灣永康街 77 號環薈中心 701-706，801-807 及 816 室

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Physical and mechanical tests :- (cont'd)	
Toys	- Safety requirements and test methods	BS EN 71-1: 2014 + A1: 2018 EN 71-1: 2014 + A1: 2018 ***<Excluding the following>*** for the above two standards Cl. 4.10.1(a), 4.10.1(b), 4.10.1(c), 4.11(e) 4.14.1(c), 4.15, 4.16, 4.18 (test to EN 15649-3), 4.19, 4.20.2.5, 4.20.2.12 and 5.6

Eurofins MTS Consumer Product Testing Hong Kong Limited
歐陸現代商品檢測(香港)有限公司
701-706, 801-807 & 816, CEO Tower, 77 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong
香港九龍長沙灣永康街 77 號環薈中心 701-706，801-807 及 816 室

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Physical and mechanical tests :- (cont'd)	
Toys (cont'd)	- Technical requirements for determining a sharp point in toys intended for use by children under 8 years of age	16 CFR 1500.48
	- Technical requirements for determining a sharp metal or glass edge in toys intended for use by children under 8 years of age	16 CFR 1500.49
	- Test methods for simulating use and abuse of toys intended for use by children - Impact test - Bite test - Flexure test - Torque test - Tension test - Compression test	16 CFR 1500.50, 1500.51, 1500.52 and 1500.53
Toys and other articles intended for use by children under 3 years of age	- Method for identifying choking, aspiration, or ingestion hazards because of small parts	16 CFR 1501 in conjunction with test methods specified in 16 CFR 1500.51 or 16 CFR 1500.52 [excluding bite test to 1500.51(c) or 1500.52 (c)]
Infant rattles	- Method for identifying choking and/or suffocation hazards	16 CFR 1510 in conjunction with test methods specified in 16 CFR 1500.51 [excluding bite test to 1500.51(c) and flexure test to 1500.51 (d)]
Pacifiers	- Requirement for pacifiers	16 CFR 1511

Eurofins MTS Consumer Product Testing Hong Kong Limited
歐陸現代商品檢測(香港)有限公司
701-706, 801-807 & 816, CEO Tower, 77 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong
香港九龍長沙灣永康街 77 號環薈中心 701-706，801-807 及 816 室

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Physical and mechanical tests :- (cont'd)	
Toys (cont'd)	- Safety Requirements and test methods	Canada Toys Regulations (SOR/2011-17) (last amended on 19 December 2022) Section 3, 4, 7, 8 , 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 28, 29, 30, 31, 37, 40, 41, 42, 43 and 44 ***<Excluding the following>*** Section 29(c), 29(d) Health Canada Product Safety Reference Manual Book 5 – Laboratory Policies and Procedures Part B: Test Method Section
	- Small components	Method M00.1 (2023-06-05)
	- Sharp edges	Method M00.2 (2023-06-05)
	- Sharp points	Method M00.3 (2023-06-05)
	- Eye/nose security - dolls, plush toys and soft toys	Method M00.4 (2020-05-06)
	- Reasonably foreseeable use	Method M01.1 (2019-02-18)
	- Test method for flexible film bags	Method M03 (2022-03-16)
	- Test method to determine the noise level of toys	Method M04 (2022-07-04) ***<Excluding the following>*** B.9A group including toy masks, hats and other head wearables (excluding over the ear and in the ear sound sources)
	- Test method for rattles	Method M05 (2023-02-16)
	- Magnetic flux index	Method M18 (2021-02-04)
		(Note: The above test methods should be used in conjunction with the relevant sections of Canada Toys Regulations (SOR/2011-17))

Eurofins MTS Consumer Product Testing Hong Kong Limited
歐陸現代商品檢測(香港)有限公司

Summary of Voluntary Suspension

.vs. denotes test for which accreditation has been voluntarily suspended with effect from 2 May 2025 (Notification Letter No. HOKLAS129-74).

Nutek Systems (HK) Limited
新科技顧問(香港)有限公司

ADDRESS 地址	:	Unit B-D, 13/F., Block A, Universal Industrial Centre, 23-25 Shan Mei Street, Fo Tan, Shatin, New Territories, Hong Kong. 香港新界沙田火炭山尾街 23-25 號宇宙工業中心 A 座 13 樓 B-D 室
ENQUIRY 查詢	:	Ms Phoebe WONG Nga-yan, Administrative Manager 黃雅欣女士，行政經理
TELEPHONE 電話	:	2605 5736
FAX 傳真	:	2692 0798
E-MAIL 電郵	:	phoebewong@nutek.co
CLIENTELE 服務對象	:	Public 公眾

Contact details last updated on: 11 May 2023

Nutek Systems (HK) Limited
新科技顧問(香港)有限公司

ADDRESS **地址**	:	Unit B-D, 13/F, Block A, Universal Industrial Centre, 23-25 Shan Mei Street, Fo Tan, Shatin, New Territories, Hong Kong. 香港新界沙田火炭山尾街 23-25 號宇宙工業中心 A 座 13 樓 B-D 室
ACCREDITED TEST CATEGORY **認可測試類別**	:	Construction Materials 建築材料

Nutek Systems (HK) Limited
新科技顧問(香港)有限公司
Unit B-D, 13/F, Block A, Universal Industrial Centre, 23-25 Shan Mei Street, Fo Tan, Shatin, New Territories, Hong Kong.
香港新界沙田火炭山尾街 23-25 號宇宙工業中心 A 座 13 樓 B-D 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Coating	Thickness measurement of polymeric anti-corrosion coating	Water Industry Specification No. 4-52-01 (Issue 1) Annex B
	Thickness measurement of epoxy coating (heavy duty) of ductile iron fittings and accessories	BS EN 14901: 2014 Cl. 7.1.5 in conjunction with the following specification: BS EN 14901: 2014 Cl. 5.5
	Thickness measurement of coating ductile iron pipes, fittings, accessories and their joints for water pipelines	BS EN 545: 2010 Cl. 6.7 in conjunction with the following specification: BS EN 545: 2010 Cl. 4.5.2.2 & Cl. 4.6.2.2
	Thickness measurement of coating for steel tubes	BS EN 10240: 1998 Annex B in conjunction with the following specification: BS EN 10240: 1998 Cl. 8.2.2
Manhole covers / steps	Loading test of gully tops and manhole tops	BS EN 124: 1994 Cl. 8 BS EN 124-1: 2015 Cl. 8

Nutek Systems (HK) Limited
新科技顧問(香港)有限公司
Unit B-D, 13/F, Block A, Universal Industrial Centre, 23-25 Shan Mei Street, Fo Tan, Shatin, New Territories, Hong Kong.
香港新界沙田火炭山尾街 23-25 號宇宙工業中心 A 座 13 樓 B-D 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Pipes and fittings		
- Copper pipes & fittings	Dimensions of copper and copper alloys (seamless) round tubes	In-house method NTP Pipe 002 in conjunction with the following specification: BS EN 12449: 2016 Cl. 6.3
	Dimensions and tolerances of copper and copper alloy plumbing fittings	In-house method NTP Fitting 001 in conjunction with the following specification: BS EN 1254-1: 1998 Cl. 4.3 In-house method NTP Fitting 002 in conjunction with the following specification: BS EN 1254-2: 1998 Cl. 4.3 In-house method NTP Fitting 003 in conjunction with the following specification: BS EN 1254-6: 2012 Cl. 4.3
	Leaktightness of copper and copper alloy plumbing fittings under internal hydrostatic pressure	BS EN 1254-1: 1998 Cl. 4.6.1 & 5.2 BS EN 1254-2: 1998 Cl. 4.6.1 & 5.4 BS EN 1254-6: 2012 Cl. 5.1.4 & Annex A
	Leaktightness of copper and copper alloy plumbing fittings under internal hydrostatic pressure while subjected to bending	BS EN 1254-2: 1998 Cl. 4.6.1 & 5.6 BS EN 1254-6: 2012 Cl. 5.1.10 & Annex G
	Drift expanding test of copper and copper alloys (seamless) round tubes	BS EN ISO 8493: 2004 in conjunction with the following specification: BS EN 12449: 2016 Cl. 6.5.1 & 8.4.1
	Resistance to pull-out of copper and copper alloy plumbing fittings	BS EN 1254-2: 1998 Cl. 4.6.2 & 5.5 BS EN 1254-6: 2012 Cl. 5.1.5 & Annex B

Nutek Systems (HK) Limited
新科技顧問(香港)有限公司
Unit B-D, 13/F, Block A, Universal Industrial Centre, 23-25 Shan Mei Street, Fo Tan, Shatin, New Territories, Hong Kong.
香港新界沙田火炭山尾街 23-25 號宇宙工業中心 A 座 13 樓 B-D 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Pipes and fittings (cont'd)		
- Copper pipes & fittings (cont'd)	Dimensions and tolerances of copper and copper alloys (seamless) round copper tubes for water and gas in sanitary, and heating applications	In-house method NTP Dim 001 in conjunction with the following specification: BS EN 1057: 2006 + A1: 2010 Cl. 7.3
	Hydrostatic test of copper and copper alloys (seamless) round tubes for water and gas in sanitary and heating applications	BS EN 1057: 2006 + A1: 2010 Annex C.2 in conjunction with the following specification: BS EN 1057: 2006 + A1: 2010 Cl. 7.4 & 10.9
	Bending test of copper and copper alloys (seamless) round copper tubes for water and gas in sanitary, and heating applications	EN ISO 8491: 2004 in conjunction with the following specification: BS EN 1057: 2006 + A1: 2010 Cl. 7.6 & 10.6
	Drift expanding test of copper and copper alloys (seamless) round copper tubes for water and gas in sanitary, and heating applications	EN ISO 8493: 2004 in conjunction with the following specification: BS EN 1057: 2006 + A1: 2010 Cl. 7.7 & 10.7
	Flanging test of copper and copper alloys (seamless) round copper tubes for water and gas in sanitary, and heating applications	EN ISO 8494: 2004 in conjunction with the following specification: BS EN 1057: 2006 + A1: 2010 Cl. 7.8 & 10.8
- Ductile iron pipes & fittings	Dimensions of ductile iron pipes and fittings for water pipelines	In-house method NTP Pipe 003 in conjunction with the following specification: BS EN 545: 2010 Cl. 4.3 & 6.1
	Dimensions of ductile iron fittings for water pipelines	In-house method NTP Fitting 004 in conjunction with the following specification: BS EN 545: 2010 Cl. 4.3 & 6.1
	Straightness of ductile iron pipes for water pipelines	BS EN 545: 2010 Cl. 6.2 in conjunction with the following specification: BS EN 545: 2010 Cl. 4.3.4
	Works leak tightness test for ductile iron pipes and fittings for water pipelines	In-house method NTP Pipe 003 in conjunction with the following specification: BS EN 545: 2010 Cl. 6.5

Nutek Systems (HK) Limited
新科技顧問(香港)有限公司
Unit B-D, 13/F, Block A, Universal Industrial Centre, 23-25 Shan Mei Street, Fo Tan, Shatin, New Territories, Hong Kong.
香港新界沙田火炭山尾街 23-25 號宇宙工業中心 A 座 13 樓 B-D 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Pipes and fittings (cont'd)		
- Non-alloy steel tubes	Dimensions of non-alloy steel tubes suitable for welding and threading	In-house method NTP Pipe 004 in conjunction with the following specification: BS EN 10255: 2004 + A1: 2007 Cl. 8.4
	Bend test of non-alloy steel tubes suitable for welding and threading	BS EN ISO 8491: 2004 in conjunction with the following specification: BS EN 10255: 2004 + A1: 2007 Cl. 9.4
	Flattening test of non-alloy steel tubes suitable for welding and threading	BS EN ISO 8492: 2013 in conjunction with the following specification: BS EN 10255: 2004 + A1: 2007 Cl. 9.5
	Hydrostatic test of non-alloy steel tubes suitable for welding and threading	In-house method NTP Pipe 004 in conjunction with the following specification: BS EN 10255: 2004 + A1: 2007 Cl. 9.6
- Stainless steel pipes & fittings	Dimensions of welded stainless steel tubes for conveyance of water and other aqueous liquids	In-house method NTP Pipe 007 in conjunction with the following specification: BS EN 10312: 2002 Cl. 8.8
	Straightness of welded stainless steel tubes for conveyance of water and other aqueous liquids	In-house method NTP Pipe 007 in conjunction with the following specification: BS EN 10312: 2002 Cl. 8.6
	Dimensions of welded stainless steel tubes for pressure purposes	In-house method NTP Pipe 006 in conjunction with the following specification: BS EN 10217-7: 2014 Cl. 8.8
	Straightness of welded stainless steel tubes for conveyance of water and other aqueous liquids	In-house method NTP Pipe 006 in conjunction with the following specification: BS EN 10217-7: 2014 Cl. 8.6
-	Dimensions of stainless steel tubes suitable for screwing in accordance with BS 21 'Pipe threads for tubes and fittings where pressure-tight joints are made on the threads	In-house method NTP Pipe 005 in conjunction with the following specification: BS 6362: 1990 Cl. 7 & 8

Nutek Systems (HK) Limited
新科技顧問(香港)有限公司
Unit B-D, 13/F, Block A, Universal Industrial Centre, 23-25 Shan Mei Street, Fo Tan, Shatin, New Territories, Hong Kong.
香港新界沙田火炭山尾街 23-25 號宇宙工業中心 A 座 13 樓 B-D 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Pipes and fittings (cont'd)		
- Stainless steel pipes & fittings (cont'd)	Hydrostatic test of welded stainless steel tubes for conveyance of water and other aqueous liquids	BS EN 10312: 2002 Cl. 11.4.3
	Hydrostatic test of welded stainless steel tubes for pressure purposes	BS EN 10217-7: 2014 Cl. 11.8.1
	Drift expanding test of welded stainless steel tubes for conveyance of water and other aqueous liquids	BS EN 10234: 1994 in conjunction with the following specification: BS EN 10312: 2002 Cl. 11.2
	Drift expanding test of welded stainless steel tubes for pressure purposes	BS EN ISO 8493: 2004 in conjunction with the following specification: BS EN 10217-7: 2014 Cl. 11.4.4
	Flattening test of welded stainless steel tubes for conveyance of water and other aqueous liquids	BS EN 10233: 1994 in conjunction with the following specification: BS EN 10312: 2002 Cl. 11.3
	Flattening test of welded stainless steel tubes for pressure purposes	BS EN ISO 8492: 2013 in conjunction with the following specification: BS EN 10217-7: 2014 Cl. 11.4.2
	Leak tightness test of stainless steel tubes suitable for screwing in accordance with BS 21 'Pipe threads for tubes and fittings where pressure-tight joints are made on the threads'	In-house method NTP Pipe 005 in conjunction with the following specification: BS 6362: 1990 Cl. 9.4.1

Nutek Systems (HK) Limited
新科技顧問(香港)有限公司
Unit B-D, 13/F, Block A, Universal Industrial Centre, 23-25 Shan Mei Street, Fo Tan, Shatin, New Territories, Hong Kong.
香港新界沙田火炭山尾街 23-25 號宇宙工業中心 A 座 13 樓 B-D 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Tapwares		
- Sanitary tapware (single taps and combination taps for water supply systems)	Leaktightness of the obturator and of the tap upstream of the obturator with the obturator in the closed position	BS EN 200: 2008 + Corr. Nos. 1 & 2 Cl. 8.3
	Leaktightness of the tap downstream of the obturator with the obturator open	BS EN 200: 2008 + Corr. Nos. 1 & 2 Cl. 8.4
	Pressure resistance characteristics – mechanical performance under pressure	BS EN 200: 2008 + Corr. Nos. 1 & 2 Cl. 9
	Hydraulic characteristics – flow rate of single and combination taps	BS EN 200: 2008 + Corr. Nos. 1 & 2 Cl. 10
- Water taps	Nominal flow rate	Water Supplies Department The Hong Kong Voluntary Water Efficiency Labelling Scheme on Water Taps (Dec 2012) Cl. 5.3 & Annex 1 Section I Water Supplies Department The Hong Kong Voluntary Water Efficiency Labelling Scheme on Water Taps (Dec 2018) Cl. 5.3 & Annex 1 Section I
	Endurance test for flow controllers	Water Supplies Department The Hong Kong Voluntary Water Efficiency Labelling Scheme on Water Taps (Dec 2012) Cl. 5.4 & Annex 1 Section II Water Supplies Department The Hong Kong Voluntary Water Efficiency Labelling Scheme on Water Taps (Dec 2018) Cl. 5.4 & Annex 1 Section II

Nutek Systems (HK) Limited
新科技顧問(香港)有限公司
Unit B-D, 13/F, Block A, Universal Industrial Centre, 23-25 Shan Mei Street, Fo Tan, Shatin, New Territories, Hong Kong.
香港新界沙田火炭山尾街 23-25 號宇宙工業中心 A 座 13 樓 B-D 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Tapwares (cont'd)		
- Flow controllers	Nominal flow rate	Water Supplies Department The Hong Kong Voluntary Water Efficiency Labelling Scheme on Flow Controllers (Aug 2014) Cl. 5.3 & Annex 1 Section I Water Supplies Department The Hong Kong Voluntary Water Efficiency Labelling Scheme on Flow Controllers (Apr 2021) Cl. 5.3 & Annex 1 Section I
	Endurance test	Water Supplies Department The Hong Kong Voluntary Water Efficiency Labelling Scheme on Flow Controllers (Aug 2014) Cl. 5.4 & Annex 1 Section II Water Supplies Department The Hong Kong Voluntary Water Efficiency Labelling Scheme on Flow Controllers (Apr 2021) Cl. 5.4 & Annex 1 Section II
	Watertightness test	Water Supplies Department The Hong Kong Voluntary Water Efficiency Labelling Scheme on Flow Controllers (Aug 2014) Cl. 5.4 & Annex 1 Section III Water Supplies Department The Hong Kong Voluntary Water Efficiency Labelling Scheme on Flow Controllers (Apr 2021) Cl. 5.4 & Annex 1 Section III

Nutek Systems (HK) Limited
新科技顧問(香港)有限公司

Unit B-D, 13/F., Block A, Universal Industrial Centre, 23-25 Shan Mei Street, Fo Tan, Shatin, New Territories, Hong Kong.
香港新界沙田火炭山尾街 23-25 號宇宙工業中心 A 座 13 樓 B-D 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Valves		
- Ball valve	Dimensions of copper alloy ball valves	In-house method NTP Dim 001 in conjunction with the following specification: BS EN 13547: 2013 Cl. 4.2.4
	Dimensions of copper alloy and stainless steel ball valves	In-house method NTP Dim 001 in conjunction with the following specification: BS EN 13828: 2003 Cl. 5.2
	Shell tightness test of copper alloy ball valves	BS EN 12266-1: 2012 Cl. A.3 in conjunction with the following specification: BS EN 13547: 2013 Cl. 5.1
	Seat tightness test of copper alloy ball valves	BS EN 12266-1: 2012 Cl. A.4 in conjunction with the following specification: BS EN 13547: 2013 Cl. 5.2
	Leak-tightness test of copper alloy and stainless steel ball valves	BS EN 13828: 2003 Cl. 7.4.1
	Hydraulic strength test of copper alloy and stainless steel ball valves	BS EN 13828: 2003 Cl. 7.4.2
- Butterfly valve	Dimensions of metallic butterfly valves	In-house method NTP Valve 004 In-house method NTP Dim 001 in conjunction with the following specification: BS EN 593: 2009 + A1: 2011 Cl. 4.1.4 excluding Cl. 4.1.4.5
	Shell tightness test of metallic butterfly valves for water supply	BS EN 12266-1: 2003 Cl. A.3 in conjunction with the following specification: BS EN 593: 2009 + A1: 2011 Cl. 4.2.4.1
	Seat tightness test of metallic butterfly valves for water supply	BS EN 12266-1: 2003 Cl. A.4

Nutek Systems (HK) Limited
新科技顧問(香港)有限公司

Unit B-D, 13/F., Block A, Universal Industrial Centre, 23-25 Shan Mei Street, Fo Tan, Shatin, New Territories, Hong Kong.
香港新界沙田火炭山尾街 23-25 號宇宙工業中心 A 座 13 樓 B-D 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Valves (cont'd)		
- Check valve	Dimensions of steel and cast iron check valves	In-house method NTP Dim 001 in conjunction with the following specification: BS EN 16767: 2016 Cl. 4.2.3
	Dimensions of cast iron check valves	In-house method NTP Dim 001 in conjunction with the following specification: BS EN 12334: 2001 Cl. 4.1.3
	Dimensions of steel globe and globe stop and check valves	In-house method NTP Dim 001 in conjunction with the following specification: BS EN 13709: 2010 Cl. 4.1.3
	Shell strength test of steel and cast iron check valves	BS EN 12266-1: 2012 Cl. A.2 in conjunction with the following specification: BS EN 16767: 2016 Cl. 5.1
	Shell strength test of cast iron check valves	BS EN 12266-1: 2003 Cl. A.2 in conjunction with the following specification: BS EN 12334: 2001 Cl. 5.1
	Shell strength test of steel globe and globe stop and check valves	BS EN 12266-1: 2003 Cl. A.2 in conjunction with the following specification: BS EN 13709: 2010 Cl. 5.1
	Shell tightness test of steel and cast iron check valves	BS EN 12266-1: 2012 Cl. A.3 in conjunction with the following specification: BS EN 16767: 2016 Cl. 5.1
	Shell tightness test of cast iron check valves	BS EN 12266-1: 2003 Cl. A.3 in conjunction with the following specification: BS EN 12334: 2001 Cl. 5.1
	Shell tightness test of steel globe and globe stop and check valves	BS EN 12266-1: 2003 Cl. A.3 in conjunction with the following specification: BS EN 13709: 2010 Cl. 5.1
	Seat tightness test of steel and cast iron check valves	BS EN 12266-1: 2012 Cl. A.4 in conjunction with the following specification: BS EN 16767: 2016 Cl. 5.1

Nutek Systems (HK) Limited
新科技顧問(香港)有限公司

Unit B-D, 13/F., Block A, Universal Industrial Centre, 23-25 Shan Mei Street, Fo Tan, Shatin, New Territories, Hong Kong.
香港新界沙田火炭山尾街 23-25 號宇宙工業中心 A 座 13 樓 B-D 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Valves (cont'd)		
- Check valve (cont'd)	Seat tightness test of cast iron check valves	BS EN 12266-1: 2003 Cl. A.4 in conjunction with the following specification: BS EN 12334: 2001 Cl. 5.1
	Seat tightness test of steel globe and globe stop and check valves	BS EN 12266-1: 2003 Cl. A.4 in conjunction with the following specification: BS EN 13709: 2010 Cl. 5.1
- Gate valve	Dimensions of cast iron gate valves	In-house method NTP Valve 002 In-house method NTP Dim 001 in conjunction with the following specification: BS EN 1171: 2015 Cl. 4.1.3
	Dimensions of key-operated cast iron gate valves for waterworks purposes	In-house method NTP Valve 002 In-house method NTP Dim 001 in conjunction with the following specification: BS 5163-1: 2004 Cl. 4.2
	Dimensions of copper alloy gate valves	In-house method NTP Valve 003 In-house method NTP Dim 001 in conjunction with the following specification: BS EN 12288: 2010 Cl. 4.2.4
	Dimensions of steel gate valves	In-house method NTP Valve 006 In-house method NTP Dim 001 in conjunction with the following specification: BS EN 1984: 2010 Cl. 4.1.3
	Dimensions of copper alloy globe, globe stop and check, check and gate valves	In-house method NTP Dim 001 in conjunction with the following specification: BS 5154: 1991 Cl. 8
	Pressure test of copper alloy globe, globe stop and check, check and gate valves	BS 6755-1: 1986 Cl. 4 & App. D.6 in conjunction with the following specification: BS 5154: 1991 Cl. 11
	Seat leakage test of copper alloy globe, globe stop and check, check and gate valves	BS 6755-1: 1986 Cl. 6 & App. D.8 in conjunction with the following specification: BS 5154: 1991 Cl. 11

Nutek Systems (HK) Limited
新科技顧問(香港)有限公司

Unit B-D, 13/F., Block A, Universal Industrial Centre, 23-25 Shan Mei Street, Fo Tan, Shatin, New Territories, Hong Kong.
香港新界沙田火炭山尾街 23-25 號宇宙工業中心 A 座 13 樓 B-D 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Valves (cont'd)		
- Gate valve (cont'd)	Shell strength test of cast iron gate valves	BS EN 12266-1: 2012 Cl. A.2 in conjunction with the following specification: BS EN 1171: 2015 Cl. 5.1
	Shell strength test of steel gate valves for water supply	BS EN 12266-1: 2012 Cl. A.2 in conjunction with the following specification: BS EN 1984: 2010 Cl. 5.1
	Shell strength test of copper alloy gate valves	BS EN 12266-1: 2003 Cl. A.2 in conjunction with the following specification: BS EN 12288: 2010 Cl. 5.1
	Shell tightness test of cast iron gate valves	BS EN 12266-1: 2012 Cl. A.3 in conjunction with the following specification: BS EN 1171: 2015 Cl. 5.1
	Shell tightness test of steel gate valves for water supply	BS EN 12266-1: 2012 Cl. A.3 in conjunction with the following specification: BS EN 1984: 2010 Cl. 5.1
	Shell tightness test of copper alloy gate valves	BS EN 12266-1: 2003 Cl. A.3 in conjunction with the following specification: BS EN 12288: 2010 Cl. 5.1
	Seat tightness test of cast iron gate valves	BS EN 12266-1: 2012 Cl. A.4 in conjunction with the following specification: BS EN 1171: 2015 Cl. 5.1
	Seat tightness test of steel gate valves for water supply	BS EN 12266-1: 2012 Cl. A.4 in conjunction with the following specification(s): BS EN 1984: 2010 Cl. 5.1
	Seat tightness test of copper alloy gate valves	BS EN 12266-1: 2003 Cl. A.4 in conjunction with the following specification: BS EN 12288: 2010 Cl. 5.1
	Seat tightness at high differential pressure of valves for water supply	BS EN 12266-1: 2012 Cl. A.4 in conjunction with the following specification: BS EN 1074-1: 2000 Cl. 5.2.2.1

Nutek Systems (HK) Limited
新科技顧問(香港)有限公司

Unit B-D, 13/F., Block A, Universal Industrial Centre, 23-25 Shan Mei Street, Fo Tan, Shatin, New Territories, Hong Kong.
香港新界沙田火炭山尾街 23-25 號宇宙工業中心 A 座 13 樓 B-D 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Valves (cont'd)		
- Gate valve (cont'd)	Strength torque of cast iron gate valves	BS EN 1171: 2015 Annex B in conjunction with the following specification: BS EN 1171: 2015 Cl. 4.3 Table 6
	Leak tightness to internal pressure of valves for water supply	BS EN 1074-1: 2000 Cl. 5.1.1 & Annex A in conjunction with the following specification: BS EN 1074-1: 2000 Cl. 5.2.1.1
	Resistance of isolating valves to operating loads for water supply	BS EN 1074-2: 2000 Annex A & Annex B in conjunction with the following specification: BS EN 1074-2: 2000 Cl. 5.1.4
- Globe valve	Dimensions of cast iron globe valves	In-house method NTP Dim 001 in conjunction with the following specification: BS EN 13789: 2010 Cl. 4.1.3
	Shell strength test of cast iron globe valves	BS EN 12266-1: 2003 Cl. A.2 in conjunction with the following specification: BS EN 13789: 2010 Cl. 5.1
	Shell tightness test of cast iron globe valves	BS EN 12266-1: 2003 Cl. A.3 in conjunction with the following specification: BS EN 13789: 2010 Cl. 5.1
	Seat tightness test of cast iron globe valves	BS EN 12266-1: 2003 Cl. A.4 in conjunction with the following specification: BS EN 13789: 2010 Cl. 5.1

Nutek Systems (HK) Limited
新科技顧問(香港)有限公司
Unit B-D, 13/F., Block A, Universal Industrial Centre, 23-25 Shan Mei Street, Fo Tan, Shatin, New Territories, Hong Kong.
香港新界沙田火炭山尾街 23-25 號宇宙工業中心 A 座 13 樓 B-D 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Valves (cont'd)		
- Flanges for pipes, valves, fittings and accessories	Dimensions (face-to-face and centre-to-face) of metal valves for use in flanged pipe systems – PN and Class designated valves	In-house method NTP Valve 002 In-house method NTP Dim 001 in conjunction with the following specification(s): BS EN 558: 2008 + A1: 2011 Cl. 4.1 & 4.2 BS EN 558-1: 1996 Cl. 4 BS EN 558-2: 1996 Cl. 4
	Dimensions of steel circular flanges for pipes, valves, fittings and accessories	In-house method NTP Valve 006 In-house method NTP Dim 001 in conjunction with the following specification(s): BS 1560-3.1: 1989 Cl. 7 BS 4504: Section 3.1: 1989 Cl. 8 & 11 BS EN 1092-1: 2002 Cl. 5.6 BS EN 1092-1: 2007 + A1:2013 Cl. 5.6 BS EN 1759-1: 2004 Cl. 5.6
	Dimensions of cast iron circular flanges for pipes, valves, fittings and accessories	In-house method NTP Valve 002 In-house method NTP Dim 001 in conjunction with the following specification(s): BS 1560-3.2: 1989 Cl. 7 BS 4504: Section 3.2: 1989 Cl. 7 BS EN 1092-2: 1997 Cl. 5.6 ISO 7005-2: 1988 Cl. 2.3 Section 3
	Dimensions of copper alloy circular flanges for pipes, valves, fittings and accessories	In-house method NTP Valve 003 In-house method NTP Dim 001 in conjunction with the following specification(s): BS 1560-3.3: 1989 Cl. 6 BS 1759-3: 2003 Cl. 5.6 BS 4504: Section 3.3: 1989 Cl. 7 & 11 BS EN 1092-3: 2003 Cl. 5.6
	Dimensions of aluminum alloy circular flanges for pipes, valves, fittings and accessories	In-house method NTP Valve 005 In-house method NTP Dim 001 in conjunction with the following specification(s): BS 1759-4: 2003 Cl. 5.6 BS EN 1092-4: 2002 Cl. 5.6

Nutek Systems (HK) Limited
新科技顧問(香港)有限公司
Unit B-D, 13/F., Block A, Universal Industrial Centre, 23-25 Shan Mei Street, Fo Tan, Shatin, New Territories, Hong Kong.
香港新界沙田火炭山尾街 23-25 號宇宙工業中心 A 座 13 樓 B-D 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Valves (cont'd)		
- Flanges for pipes, valves, fittings and Accessories (cont'd)	Dimensions of pipe threads for tubes and fittings where pressure-tight joints are made on the threads (metric dimensions)	In-house method NTP Dim 001 in conjunction with the following specification: BS 21: 1985 Cl. 4, 5 & 6
	Dimensions of pipe threads where pressure-tight joints are made on the threads	In-house method NTP Dim 001 in conjunction with the following specification: ISO 7-1: 1994 Cl. 5

Wilson Curtain Wall Consultant (HK) Limited
威而遜建築幕牆顧問(香港)有限公司

ADDRESS 地址	:	Room 1514, 15/F., Technology Park, 18 On Lai Street, Shatin, NT 香港新界沙田安麗街 18 號達利廣場 15 樓 1514 室
ENQUIRY 查詢	:	Dr Wilson ZHOU Yongsheng, Managing Director 周永生博士，常務董事
TELEPHONE 電話	:	2645 1802
FAX 傳真	:	2645 1824
E-MAIL 電郵	:	wilson@curtainwall.com.hk
WEBSITE ADDRESS 網址	:	http://www.CurtainWall.com.hk
CLIENTELE 服務對象	:	Public 公眾

Wilson Curtain Wall Consultant (HK) Limited
威而遜建築幕牆顧問(香港)有限公司

ADDRESS :
地址

Office : Room 1514, 15/F., Technology Park, 18 On Lai Street, Shatin, New Territories, Hong Kong
香港新界沙田安麗街 18 號達利廣場 15 樓 1514 室

Laboratory : Room 1012, 10/F., Technology Park, 18 On Lai Street, Shatin, New Territories, Hong Kong
香港新界沙田安麗街 18 號達利廣場 10 樓 1012 室

ACCREDITED TEST CATEGORY
認可測試類別 : Construction Materials 建築材料

Wilson Curtain Wall Consultant (HK) Limited
威而遜建築幕牆顧問(香港)有限公司
Room 1514, 15/F., Technology Park, 18 On Lai Street, Shatin, New Territories, Hong Kong
香港新界沙田安麗街 18 號達利廣場 15 樓 1514 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Concrete (diagnostic)	Covermeter survey	BS 1881: Part 204: 1988
	Surface hardness measurement	BS EN 12504-2: 2001
Structural fixings	Tensile proof load test of cast-in channels by incremental loading in the force range 5 kN – 195 kN	BS 5080: Part 1: 1993 Cl. 6, 7.1.1 & 7.1.3 with modifications
	Tensile test of cast-in channels by incremental loading in the force range 5 kN – 195 kN	BS 5080: Part 1: 1993 Cl. 6, 7.1.1 & 7.1.3
	Tensile proof load test of drilled-in anchors used for cantilevered structure/hanger/curtain wall remedial works by incremental loading in the force range 20 kN – 195 kN	Buildings Department PNAP APP-169 (Oct 2023) App. A
	Tensile proof load test of drilled-in anchors used for works other than cantilevered structure/hanger/ curtain wall remedial works in the force range 2 kN – 195 kN	Buildings Department PNAP APP-169 (Oct 2023) App. B
	Tensile proof load test for steel T-bolts with cast-in channels in the force range 5 kN – 195 kN	Buildings Department PNAP APP-169 (Oct 2023) App. C

Wilson Curtain Wall Consultant (HK) Limited
威而遜建築幕牆顧問(香港)有限公司
Room 1012, 10/F., Technology Park, 18 On Lai Street, Shatin, New Territories, Hong Kong
香港新界沙田安麗街 18 號達利廣場 10 樓 1012 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Curtain walls & cladding (spiders)	Proof load test of spiders in the force range 2 kN – 195 kN	Buildings Department APP-37 (May 2012) App. C in conjunction with the following specifications: Buildings Department Code of Practice for the Structural Use of Steel (2011) Cl. 16.2.1
Glass	Bending strength of glass	BS EN 1288-3: 2000

Building Diagnostic Consultants Limited
香港工程質量檢測中心有限公司

ADDRESS : 12/F, Asia Trade Centre, 79 Lei Muk Road, Kwai Chung, NT
地址 香港新界葵涌梨木道 79 號亞洲貿易中心12樓

ENQUIRY : Dr Shelley ZHAO Xuemei, Technical Consultant
查詢 趙雪美博士，技術顧問

TELEPHONE : 2429 8622
電話

FAX : 2429 2075
傳真

E-MAIL : info@bdc.com.hk
電郵

WEBSITE ADDRESS : www.bdc.com.hk
網址

CLIENTELE : Public
服務對象 公眾

Building Diagnostic Consultants Limited
香港工程質量檢測中心有限公司

ADDRESS **地址**	:	12/F, Asia Trade Centre, 79 Lei Muk Road, Kwai Chung, New Territories, Hong Kong 香港新界葵涌梨木道 79 號亞洲貿易中心12樓
ACCREDITED TEST CATEGORY **認可測試類別**	:	Calibration Services 校正服務 Construction Materials 建築材料

Building Diagnostic Consultants Limited
香港工程質量檢測中心有限公司
12/F, Asia Trade Centre, 79 Lei Muk Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌梨木道 79 號亞洲貿易中心12樓

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Vibration measurements		
- Vibration meter / Vibration monitoring device	Calibration for the following parameters of continuous sinusoidal vibration by using the laboratory standard accelerometer in accordance with in-house procedure DOC/CAL01:	
	- Displacement over the following range: 20 Hz to 100 Hz 0.03 mm to 0.12 mm	10.5%
	- Acceleration over the following range: 20 Hz to 100 Hz 2000 mm/s^2 to 15000 mm/s^2	10.5%
	- Velocity over the following range: 20 Hz to 100 Hz 5 mm/s to 50 mm/s	10.5%

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Building Diagnostic Consultants Limited
香港工程質量檢測中心有限公司
12/F, Asia Trade Centre, 79 Lei Muk Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌梨木道 79 號亞洲貿易中心12樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Verification of Construction Materials Testing Equipment		
- Cross-hole analyser	Calibration of time interval of the main unit using a simulator (not including the effect of the transducer and media) in accordance with in-house method DOC/CAL03 over the following range:	
	200 μs to 1000 μs	10 μs
- Ultrasonic drilling monitor / Echo sounder signal recording apparatus	Calibration for ultrasonic frequency in accordance with in-house method DOC/CAL04 at the following nominal value:	
	88 kHz	0.9 kHz

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Building Diagnostic Consultants Limited
香港工程質量檢測中心有限公司

12/F, Asia Trade Centre, 79 Lei Muk Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌梨木道 79 號亞洲貿易中心12樓

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Adhesive	Pull-off test of mortar	In-house method DOC/TP17
	Pull-off test of plaster	In-house method DOC/TP17
	Pull-off test of render	In-house method DOC/TP17
	Pull-off test of tiles	In-house method DOC/TP17 Hong Kong Housing Authority Materials Testing Services (2020/2022) for Maintenance & Building Materials Specification Part D Cl. 7.11 Hong Kong Housing Authority Specification Library (2018) FIN5.T150.A(3) Hong Kong Housing Authority Specification Library (2022) FIN5.T150.A(3)
Concrete (diagnostic)	Carbonation test	BS EN 14630: 2006 Hong Kong Housing Authority Materials Testing Services (2020/2022) for Maintenance & Building Materials Specification Part D Cl. 4.3.1 (Method 1 & Method 2)
	Covermeter survey	BS 1881: Part 204: 1988
	Half-cell potential measurement	ASTM C876-91 (Method A & B for pre-wetting)
	Infrared thermography for detection of external wall debonding/delamination	Hong Kong Concrete Institute TM1 Issue 2 (2022)
	Surface hardness measurement	BS 1881: Part 202: 1986 BS EN 12504-2: 2001 BS EN 12504-2: 2012 BS EN 12504-2: 2021 Hong Kong Housing Authority Materials Testing Services (2020/2022) for Maintenance & Building Materials Specification Part D Cl. 4.1.1
Paint & varnish	Pull-off test of adhesion	BS EN ISO 4624: 2003, BS 3900-E10: 2003 Cl. 9.4.2 and Cl. 9.5

PROVA Inspection & Testing Co. (HK) Limited
華鋼檢測(香港)有限公司

ADDRESS 地址	:	Lot No. 4114, In D.D. 104, Yuen Long, N.T. Hong Kong 香港新界元朗 104 地段 4114 號 Postal address: P.O. Box 1234, Yuen Long Delivery Office 郵寄地址: 元朗派遞局郵政信箱 1234 號
ENQUIRY 查詢	:	Mr Alan LEUNG Ka-lun, General Manager 梁嘉倫先生, 總經理
TELEPHONE 電話	:	(852) 2420 2336 / (86) 755 2983 5277
FAX 傳真	:	(852) 2420 2312 / (86) 755 2983 5536
E-MAIL 電郵	:	inquiry@prova-hk.com
WEBSITE ADDRESS 網址	:	http://www.prova-hk.com
CLIENTELE 服務對象	:	Public 公眾

PROVA Inspection & Testing Co. (HK) Limited
華鋼檢測(香港)有限公司

ADDRESS
地址

Main Laboratory	:	Lot No. 4114, In D.D. 104, Yuen Long, New Territories, Hong Kong 香港新界元朗 104 地段 4114 號
Test Location	:	2/F, Factory 7, Dongyuan Chang, 28 Bei Huan Road West, Shiyan Town, Bao'an District, Shenzhen City, China 中國深圳市寶安區石岩街道北環路西 28 號東原廠廠房 7 二樓
ACCREDITED TEST CATEGORY **認可測試類別**	:	Construction Materials 建築材料

PROVA Inspection & Testing Co. (HK) Limited
華鋼檢測(香港)有限公司
Lot No. 4114, In D.D. 104, Yuen Long, New Territories, Hong Kong
香港新界元朗 104 地段 4114 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Metallic materials	Charpy 'V-notch' impact test of structural steel	BS EN 10045-1: 1990 BS EN ISO 148-1: 2010 BS EN ISO 148-1: 2016 in conjunction with the following specification(s): BS EN 10025-1: 2004 Cl. 10.2.2 BS EN 10025-2: 2004 Cl. 10.2 & Table 9 BS EN 10025-2: 2019 Cl. 10.2.2 & Table 8 BS EN 10025-3: 2004 Cl. 10.2, Table 6 & 7 BS EN 10025-3: 2019 Cl. 10.2.2, Table 5 & 6 BS EN 10025-4: 2004 Cl. 10.2, Table 6 & 7 BS EN 10025-4: 2019 + A1:2022 Cl. 10.2.2 & Table 5 & 6 BS EN 10025-5: 2004 Cl. 10.2 & Table 5 BS EN 10025-5: 2019 Cl. 10.2.2 & Table 5 BS EN 10088-2: 2005 Cl. 7.4.4, Table 8, 10 & 11 BS EN 10088-2: 2014 Cl. 7.4.4, Table 7, 8 & 10 BS EN 10210-1: 2006 Cl. 6.6.2, 9.2.3, Table A.3 & B.3 BS EN 10219-1: 2006 Cl. 6.7.2, 9.2.3, Table A.3, B.4 & B.5
	Proof load test of stainless steel nuts in the force range 3 kN – 2000 kN	BS EN ISO 3506-2: 2020 Cl. 10.1 BS EN ISO 898-2: 2012 Cl. 9.1 BS EN ISO 898-2: 2022 Cl. 10.1 in conjunction with the following specification(s): BS EN ISO 3506-2: 2009 Cl. 6
	Proof load test of steel nuts in the force range 3 kN – 2000 kN	BS 3692: 2001 + Amd. 13183 Annex C.1 BS 3692: 2014 Annex C.1 BS 4190: 2001 Annex A.1 BS 4190: 2014 Annex A.1 BS EN ISO 898-2: 2012 Cl. 9.1 BS EN ISO 898-2: 2022 Cl. 10.1
	Proof load test of unmachined (finished) bolts & screws in the force range 3 kN – 2000 kN	BS EN ISO 898-1: 2009 Cl. 9.6 BS EN ISO 898-1: 2013 Cl. 9.6 in conjunction with the following specification(s): BS 3692: 2001 + Amd. 13183 Cl. 11 & 13 BS 3692: 2014 Cl. 14 & 21 BS 4190: 2001 Cl. 15 & 20 BS 4190: 2014 Cl. 15 & 21

PROVA Inspection & Testing Co. (HK) Limited
華鋼檢測(香港)有限公司
Lot No. 4114, In D.D. 104, Yuen Long, New Territories, Hong Kong
香港新界元朗 104 地段 4114 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Metallic materials (cont'd)	Tensile test of metallic materials in the force range 3 kN – 2000 kN	BS EN 10002-1: 2001 BS EN ISO 6892-1: 2009 Cl. 10.4 Method B BS EN ISO 6892-1: 2016 Cl. 10.3.3 Method B BS EN ISO 6892-1: 2019 Cl. 10.3.3 Method B in conjunction with the following specification(s): BS 4360: 1990 Cl. 23 BS EN 10025: 1990 Cl. 7.4.1 & 8.6.3.2 BS EN 10025-1: 2004 Cl. 10.2.1 BS EN 10025-2: 2004 Cl. 10.2, Table 7 & 8 BS EN 10025-2: 2019 Cl.10.2.1, Table 6 & 7 BS EN 10025-3: 2004 Cl. 10.2 & Table 5 BS EN 10025-4: 2019 + A1:2022 Cl. 10.2.1 & Table 4 BS EN 10025-4: 2004 Cl. 10.2 & Table 5 BS EN 10025-4: 2019 Cl. 10.2.1 & Table 4 BS EN 10025-5: 2004 Cl. 10.2 & Table 4 BS EN 10025-5: 2019 Cl. 10.2.1 & Table 4 BS EN 10088-2: 2005 Cl. 7.4.2 & Table 7 to 20 BS EN 10088-2: 2014 Cl. 7.4.2 & Table 7 to 20 BS EN 10113-1: 1993 Cl. 8.5.2.2 & 8.6.2.1 BS EN 10113-2: 1993 Cl. 7.4.1 BS EN 10113-3: 1993 Cl. 7.4.1 BS EN 10137-1: 1996 Cl. 8.5.2.2 & 8.6.2.1 BS EN 10137-2: 1996 Cl. 7.4.1 BS EN 10137-3: 1996 Cl. 7.4.1 BS EN 10155: 1993 Cl. 7.4.1, 7.4.2 & 8.6.3.2 BS EN 10164: 2004 Cl. 5.1 & 8.1 BS EN 10164: 2018 Cl. 6.1 & 9.1 BS EN 10210-1: 2006 Cl. 6.6.1, 9.2.1, 9.2.2, Table A3 & B3 BS EN 10219-1: 2006 Cl. 6.7.1, 9.2.1 & 9.2.2, Table A3, B4 & B5

PROVA Inspection & Testing Co. (HK) Limited
華鋼檢測(香港)有限公司
Lot No. 4114, In D.D. 104, Yuen Long, New Territories, Hong Kong
香港新界元朗 104 地段 4114 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Metallic materials (cont'd)	Tensile test & slip/permanent elongation test of mechanical couplers for reinforcing bar (8 mm – 50 mm diameter) in the force range 3 kN – 2000 kN	BS EN ISO 6892-1: 2016 Cl. 10.3.3 Method B & ISO 15835-2: 2018 Cl. 5.4 excluding Cl. 5.4.4 in conjunction with the following specification(s): BS 8110: Part 1: 1985 Cl. 3.12.8.16.2 BS 8110: Part 1: 1997 Cl. 3.12.8.16.2 Buildings Department Code of Practice for Structural Use of Concrete (2004) Cl. 3.2.8.2 Buildings Department Code of Practice for Structural Use of Concrete (2013) Cl. 3.2.8.3 Buildings Department Code of Practice for Structural Use of Concrete 2013 (2020 Edition) Cl. 3.2.8.3 General specification for Civil Engineering Works (2006) Vol. 2 Cl. 15.35 General specification for Civil Engineering Works (2020) Vol. 2 Cl. 15.35
	Tensile strength test of machined bolts and screws in the force range 3 kN – 2000 kN	BS EN ISO 6892-1: 2009 Cl. 10.4 Method B BS EN ISO 6892-1: 2016 Cl. 10.3.3 Method B BS EN ISO 6892-1: 2019 Cl. 10.3.3 Method B in conjunction with the following specification(s): BS 3692: 2001 + Amd. 13183 Cl. 11 & 13 BS 3692: 2014 Cl. 14 & 21 BS 4190: 2001 Cl. 15 & 20 BS 4190: 2014 Cl. 15 & 21 BS EN 14399-10: 2009 Cl. 4.2 BS EN 14399-10: 2018 Cl. 4.2 BS EN ISO 898-1: 1999 Cl. 8.1 BS EN ISO 898-1: 2009 Cl. 9.7 BS EN ISO 898-1: 2013 Cl. 9.7
	Tensile strength test of unmachined (finished) bolts and screws in the force range 3 kN – 2000 kN	BS EN ISO 6892-1: 2009 Cl. 10.4 Method B BS EN ISO 6892-1: 2016 Cl. 10.3.3 Method B BS EN ISO 6892-1: 2019 Cl. 10.3.3 Method B in conjunction with the following specification(s): BS 3692: 2001 + Amd. 13183 Cl. 11 & 13 BS 3692: 2014 Cl. 14 & 21 BS 4190: 2001 Cl. 15 & 20 BS 4190: 2014 Cl. 15 & 21 BS EN 14399-10 : 2009 Cl. 4.2 BS EN 14399-10 : 2018 Cl. 4.2 BS EN ISO 898-1: 1999 Cl. 8.2 BS EN ISO 898-1: 2009 Cl. 9.2 BS EN ISO 898-1: 2013 Cl. 9.2 BS EN ISO 6507-1: 2023

PROVA Inspection & Testing Co. (HK) Limited
華鋼檢測(香港)有限公司
Lot No. 4114, In D.D. 104, Yuen Long, New Territories, Hong Kong
香港新界元朗 104 地段 4114 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Metallic materials (cont'd)	Tensile test of bolting assemblies for determination of tensile resistance in the force range 3kN to 2000kN	BS EN 15048-2: 2016 Cl. 6.2.2 – 6.2.5, 6.3 & 6.4
	Vickers hardness test of metallic materials in the scale range HV5, HV10 & HV30	BS EN ISO 6507-1: 1998 BS EN ISO 6507-1: 2005 BS EN ISO 6507-1: 2018 in conjunction with the following specification(s): BS 3692: 2001 Table 9 BS 3692: 2014 Table 10 BS 4190: 2001 Table 14 BS 4190: 2014 Table 14 BS EN 10088-2: 2005 Table 8 BS EN 10088-2: 2014 Table 10 BS EN 14399-5: 2015 Table 3 BS EN 14399-6: 2015 Table 3 BS EN ISO 898-1: 1999 Table 3 BS EN ISO 898-1: 2009 Table 3 BS EN ISO 898-1: 2013 Table 3 BS EN ISO 3506-1: 2009 Table 3 BS EN ISO 3506-1: 2020 Table 3 BS EN ISO 3506-2: 2009 Table 3 BS EN ISO 3506-2: 2020 Table 4
Metallic materials (non-destructive)	Ultrasonic testing of H beams with parallel flanges and IPE beams (manual method)	BS EN 10306: 2002 in conjunction with the following specification(s): BS EN 10164: 2004 Cl. 5.2 BS EN 10164: 2018 Cl. 6.2
	Ultrasonic testing of steel flat product of thickness equal to or greater than 6 mm (reflection method)	BS EN 10160: 1999 in conjunction with the following specification(s): BS EN 10164: 2004 Cl. 5.2 BS EN 10164: 2018 Cl. 6.2

PROVA Inspection & Testing Co. (HK) Limited
華鋼檢測(香港)有限公司
Lot No. 4114, In D.D. 104, Yuen Long, New Territories, Hong Kong
香港新界元朗 104 地段 4114 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Structural fixings	Tensile proof load test of anchors by incremental loading in the force range 1 kN – 500 kN	BS 5080: Part 1: 1993 Cl. 6, 7.1.1 & 7.1.3 with modifications
	Tensile proof load test for drilled-in anchors used for cantilevered structure/hanger/curtain wall remedial works by incremental loading in the force range 1 kN – 500 kN	Buildings Department PNAP APP-169 (Oct 2023) App. A
	Tensile proof load test for drilled-in anchors used for works other than cantilevered structure/hanger/curtain wall remedial works in the force range 1 kN – 500 kN	Buildings Department PNAP APP-169 (Oct 2023) App. B
	Tensile proof load test for cementitious or polymer based grouted bolts or dowels or reinforcing bars works in the force range 1 kN – 500 kN	Buildings Department PNAP APP-169 (Oct 2023) App. C
	Shear proof load test of anchors by incremental loading in the force range 1 kN – 100 kN	BS 5080: Part 2: 1986 + Amd. 7602 Cl. 4, 7.1, 7.2.1 & 7.2.3 with modifications
	Shear proof load test for drilled-in anchors used for cantilevered structure/hanger/curtain wall remedial works by incremental loading in the force range 1 kN – 100 kN	Buildings Department PNAP APP-169 (Oct 2023) App. A
	Shear proof load test for drilled-in anchors used for works other than cantilevered structure/ hanger/curtain wall remedial works in the force range 1 kN – 100 kN	Buildings Department PNAP APP-169 (Oct 2023) App. B
	Shear proof load test for cementitious or polymer based grouted bolts or dowels or reinforcing bars works in the force range 1 kN – 100 kN	Buildings Department PNAP APP-169 (Oct 2023) App. C

PROVA Inspection & Testing Co. (HK) Limited
華鋼檢測(香港)有限公司
Lot No. 4114, In D.D. 104, Yuen Long, New Territories, Hong Kong
香港新界元朗 104 地段 4114 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Welds (destructive)	Bend test on welds in metallic materials	BS 4872: Part 1: 1982 Cl. 19.2 & 19.3 BS EN 910: 1996 BS EN ISO 5173: 2010 + A1: 2011 BS EN ISO 5173: 2023
	Cruciform test on welds in metallic materials	BS 709: 1983 + Amd. 1, 2 & 3
	Charpy V-notch impact test on welds in metallic materials	BS EN 875: 1995 BS EN ISO 9016: 2011 BS EN ISO 9016: 2012 BS EN ISO 9016: 2022
	Fracture test on welds in metallic materials	BS 4872: Part 1: 1982 Cl. 19.4 & 19.5 BS EN 1320: 1997 BS EN ISO 9017: 2013 BS EN ISO 9017: 2018 in conjunction with the following specification(s): BS EN 25817: 1992 Table 1 BS EN ISO 5817: 2003 Table 1 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 BS EN ISO 5817: 2023 Table 1 ISO 5817:1992 Table 1
	Longitudinal tensile test on welds in metallic materials in the force range 3 kN - 2000 kN	BS EN 876: 1995 BS EN ISO 5178: 2011 BS EN ISO 5178: 2019
	Macroscopic examination on welds in metallic materials	BS 4872: Part 1: 1982 Cl. 19.1 BS EN 1321: 1997 BS EN ISO 17639: 2013 BS EN ISO 17639: 2022 in conjunction with the following specification(s): BS EN ISO 14555: 2006 Cl. 11.6 & 12.6 BS EN ISO 14555: 2014 Cl. 11.6 & 12.6 BS EN ISO 14555: 2017 Cl. 11.6 & 12.6
	Macro-etch test on welded reinforcement steel for concrete	BS 7123: 1989 Cl. 12.3.4.2 & 12.3.6
	Nick-break test on welds in metallic materials	BS 709: 1983

PROVA Inspection & Testing Co. (HK) Limited
華鋼檢測(香港)有限公司
Lot No. 4114, In D.D. 104, Yuen Long, New Territories, Hong Kong
香港新界元朗 104 地段 4114 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Welds (destructive) (cont'd)	Tensile test on arc stud welding in metallic materials in the force range 3 kN to 2000 kN	BS EN ISO 6892-1: 2016 Cl. 10.3.3 Method B BS EN ISO 6892-1: 2019 Cl. 10.3.3 Method B in conjunction with the following specification(s): BS EN ISO 14555: 2006 Cl. 11.4 & 12.4 BS EN ISO 14555: 2014 Cl. 11.4 & 12.4 BS EN ISO 14555: 2017 Cl. 11.4 & 12.4
	Tensile test on welded reinforcement steel for concrete in the force range 3 kN – 2000 kN	BS 7123: 1989 Cl. 12.3.4.1 & 12.3.5 BS EN ISO 17660-1: 2006 Corr.: 2008 Cl. 14.2
	Transverse tensile test on welds in metallic materials in the force range 3 kN – 2000 kN	BS EN 895: 1995 BS EN ISO 4136: 2011 BS EN ISO 4136: 2012 BS EN ISO 4136: 2022
	Vickers hardness test across welded joints in the scale range HV5, HV10 & HV30	BS EN 1043-1: 1996 BS EN ISO 9015-1: 2011
Welds (non-destructive)	Liquid penetrant test (Colour contrast method, solvent removable)	BS 6443: 1984 BS EN 571:-1: 1997 BS EN ISO 3452-1: 2013 BS EN ISO 3452-1: 2021 in conjunction with the following specification(s): BS 4515-1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 BS 5400-6: 1999 Cl. 5.5.2.4.1 BS EN 1289: 1998 Table 1 BS EN 25817: 1992 Table 1 BS EN ISO 5817: 2003 Table 1 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 BS EN ISO 5817: 2023 Table 1 BS EN ISO 23277: 2015 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2005) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel 2011 (2021 Edition) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel 2011 (2023 Edition) Table 14.3b

PROVA Inspection & Testing Co. (HK) Limited
華鋼檢測(香港)有限公司
Lot No. 4114, In D.D. 104, Yuen Long, New Territories, Hong Kong
香港新界元朗 104 地段 4114 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Welds (non-destructive) (cont'd)	Magnetic particle test (Magnetic flow method, color contrast technique using permanent magnets and A .C. yokes)	BS 6072: 1981 (1986) BS EN 1290: 1998 BS EN ISO 9934-1: 2001 BS EN ISO 9934-1: 2015 BS EN ISO 9934-1: 2016 BS EN ISO 17638: 2009 BS EN ISO 17638: 2016 in conjunction with the following specification(s): BS 4515-1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 BS 5400-6: 1999 Cl. 5.5.2.4.1 BS EN 1291: 1998 Table 1 BS EN 25817: 1992 Table 1 BS EN ISO 5817: 2003 Table 1 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 BS EN ISO 5817: 2023 Table 1 BS EN ISO 23278: 2015 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2005) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel 2011 (2021 Edition) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel 2011 (2023 Edition) Table 14.3b

PROVA Inspection & Testing Co. (HK) Limited
華鋼檢測(香港)有限公司
Lot No. 4114, In D.D. 104, Yuen Long, New Territories, Hong Kong
香港新界元朗 104 地段 4114 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Welds (non-destructive) (cont'd)	Ultrasonic test (Butt welds in plates and pipes, 'T' joint welds, nozzle welds and node welds)	BS 3923-1: 1986 (Level 1, 2a, 2b & 3) BS EN 1714: 1998 (Level A, B & C) BS EN ISO 17640: 2010 (Level A, B & C) BS EN ISO 17640: 2018 (Level A, B & C) in conjunction with the following specification(s): BS 4515-1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 BS 5400-6: 1999 Cl. 5.5.2.4.2 BS EN 1712: 1997 Table A.1 BS EN 25817: 1992 Table 1 BS EN ISO 5817: 2003 Table 1 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 BS EN ISO 5817: 2023 Table 1 BS EN ISO 11666: 2010 Cl. 5 & Annex A BS EN ISO 11666: 2018 Cl. 6 & Annex A Buildings Department Code of Practice for the Structural Use of Steel (2005) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel 2011 (2021 Edition) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel 2011 (2023 Edition) Table 14.3b
	Visual examination	BS 5289: 1976 BS EN 970: 1997 BS EN ISO 17637: 2011 BS EN ISO 17637: 2016 in conjunction with the following specification(s): BS 4515-1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 BS 5400-6: 1999 Cl. 5.5.2.4 BS EN 25817: 1992 Table 1 BS EN ISO 5817: 2003 Table 1 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 BS EN ISO 5817: 2023 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2005) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel 2011 (2021 Edition) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel 2011 (2023 Edition) Table 14.3b

PROVA Inspection & Testing Co. (HK) Limited
華鋼檢測(香港)有限公司
Lot No. 4114, In D.D. 104, Yuen Long, New Territories, Hong Kong
香港新界元朗 104 地段 4114 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Welds (non-destructive) (cont'd)	Visual examination and bend test on stud connectors	<Visual examination as follows:> BS 5289: 1976 BS EN 970: 1997 BS EN ISO 17637: 2011 BS EN ISO 17637: 2016 <together with the following bend test method:> BS 5400: Part 6: 1999 Cl. 5.5.4(b) BS EN ISO 14555: 2006 Cl. 11.2, 11.3 (excluding Torque wrench method), 12.2 & 12.3 BS EN ISO 14555: 2014 Cl. 11.2, 11.3 (excluding Torque wrench method), 12.2 & 12.3 BS EN ISO 14555: 2017 Cl. 11.2, 11.3 (excluding Torque wrench method), 12.2 & 12.3 Buildings Department Code of Practice for the Structural Use of Steel (2005) Cl. 14.3.7.3 Buildings Department Code of Practice for the Structural Use of Steel (2011) Cl. 14.3.7.3 Buildings Department Code of Practice for the Structural Use of Steel 2011 (2021 Edition) Cl. 14.3.7.3 Buildings Department Code of Practice for the Structural Use of Steel 2011 (2023 Edition) Cl. 14.3.7.3

PROVA Inspection & Testing Co. (HK) Limited
華鋼檢測(香港)有限公司
2/F, Factory 7, Dongyuan Chang, 28 Bei Huan Road West, Shiyan Town, Bao'an District, Shenzhen City, China
中國深圳市寶安區石岩街道北環路西 28 號東原廠廠房 7 二樓

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Metallic materials	Charpy 'V-notch' impact test of structural steel	BS EN 10045-1: 1990 BS EN ISO 148-1: 2010 BS EN ISO 148-1: 2016 in conjunction with the following specification(s): BS EN 10025-1: 2004 Cl. 7.3.2, 9.2.3.3 & 10.2.2 BS EN 10025-2: 2004 Cl. 10.2 & Table 9 BS EN 10025-2: 2019 Cl. 10.2.2 & Table 8 BS EN 10025-3: 2004 Cl. 10.2, Table 6 & 7 BS EN 10025-3: 2019 Cl. 10.2.2, Table 5 & 6 BS EN 10025-4: 2004 Cl. 10.2, Table 6 & 7 BS EN 10025-4: 2019 + A1: 2022 Cl. 10.2.2, Table 5 & 6 BS EN 10025-5: 2004 Cl. 10.2 & Table 5 BS EN 10025-5: 2019 Cl. 10.2.2 & Table 5 BS EN 10088-2: 2005 Cl. 7.4.4, Table 8, 10 & 11 BS EN 10088-2: 2014 Cl. 7.4.4, Table 7, 8 & 10 BS EN 10210-1: 2006 Cl. 6.6.2, 9.2.3, Table A.3 & B.3 BS EN 10219-1: 2006 Cl. 6.7.2, 9.2.3, Table A.3, B.4 & B.5
	Proof load test of stainless steel nuts in the force range 10 kN – 1000 kN	BS EN ISO 3506-2: 2020 Cl. 10.1 BS EN ISO 898-2: 2012 Cl. 9.1 BS EN ISO 898-2: 2022 Cl. 10.1 in conjunction with the following specification(s): BS EN ISO 3506-2: 2009 Cl. 6
	Proof load test of steel nuts in the force range 10 kN – 1000 kN	BS 3692: 2001 + Amd. 13183 Annex C.1 BS 3692: 2014 Annex C.1 BS 4190: 2001 Annex A.1 BS 4190: 2014 Annex A.1 BS EN ISO 898-2: 2012 Cl. 9.1 BS EN ISO 898-2: 2022 Cl. 10.1
	Proof load test of unmachined (finished) bolts & screws in the force range 10 kN – 1000 kN	BS EN ISO 898-1: 2009 Cl. 9.6 BS EN ISO 898-1: 2013 Cl. 9.6 in conjunction with the following specification(s): BS 3692: 2001 + Amd. 13183 Cl. 11 & 13 BS 3692: 2014 Cl. 14 & 21 BS 4190: 2001 Cl. 15 & 20 BS 4190: 2014 Cl. 15 & 21

PROVA Inspection & Testing Co. (HK) Limited
華鋼檢測(香港)有限公司
2/F, Factory 7, Dongyuan Chang, 28 Bei Huan Road West, Shiyan Town, Bao'an District, Shenzhen City, China
中國深圳市寶安區石岩街道北環路西 28 號東原廠廠房 7 二樓

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Metallic materials (cont'd)	Tensile test of metallic materials in the force range 10 kN – 1000 kN	BS EN 10002-1: 2001 BS EN ISO 6892-1: 2009 Cl. 10.4 Method B BS EN ISO 6892-1: 2016 Cl. 10.3.3 Method B BS EN ISO 6892-1: 2019 Cl. 10.3.3 Method B in conjunction with the following specification(s): BS 4360: 1986 Cl. 23 BS 4360: 1990 Cl. 23 BS EN 10025: 1990 Cl. 7.4.1 & 8.6.3.2 BS EN 10025-1: 2004 Cl. 7.3.1, 9.2.3.2 & 10.2.1 BS EN 10025-2: 2004 Cl. 10.2, Table 7 & 8 BS EN 10025-2: 2019 Cl.10.2.1, Table 6 & 7 BS EN 10025-3: 2004 Cl. 10.2 & Table 5 BS EN 10025-3: 2019 Cl. 10.2.1 & Table 4 BS EN 10025-4: 2004 Cl. 10.2 & Table 5 BS EN 10025-4: 2019 + A1: 2022 Cl. 10.2.1 & Table 4 BS EN 10025-5: 2004 Cl. 10.2 & Table 4 BS EN 10025-5: 2019 Cl. 10.2.1 & Table 4 BS EN 10088-2: 2005 Cl. 7.4.2 & Table 7 to 20 BS EN 10088-2: 2014 Cl. 7.4.2 & Table 7 to 20 BS EN 10113-1: 1993 Cl. 8.5.2.2 & 8.6.2.1 BS EN 10113-2: 1993 Cl. 7.4.1 BS EN 10113-3: 1993 Cl. 7.4.1 BS EN 10137-1: 1996 Cl. 8.5.2.2 & 8.6.2.1 BS EN 10137-2: 1996 Cl. 7.4.1 BS EN 10137-3: 1996 Cl. 7.4.1 BS EN 10155: 1993 Cl. 7.4.1, 7.4.2 & 8.6.3.2 BS EN 10164: 2004 Cl. 5.1 & 8.1 BS EN 10164: 2018 Cl. 6.1 & 9.1 BS EN 10210-1: 2006 Cl. 6.6.1, 9.2.1, 9.2.2, Table A3 & B3 BS EN 10219-1: 2006 Cl. 6.7.1, 9.2.1 & 9.2.2, Table A3, B4 & B5

PROVA Inspection & Testing Co. (HK) Limited
華鋼檢測(香港)有限公司
2/F, Factory 7, Dongyuan Chang, 28 Bei Huan Road West, Shiyan Town, Bao'an District, Shenzhen City, China
中國深圳市寶安區石岩街道北環路西 28 號東原廠廠房 7 二樓

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Metallic materials (cont'd)	Tensile strength test of machined bolts & screws in the force range 10 kN – 1000 kN	BS EN ISO 6892-1: 2009 Cl. 10.4 Method B BS EN ISO 6892-1: 2016 Cl. 10.3.3 Method B BS EN ISO 6892-1: 2019 Cl. 10.3.3 Method B in conjunction with the following specification(s): BS 3692: 2001 + Amd. 13183 Cl. 11 & 13 BS 3692: 2014 Cl. 14 & 21 BS 4190: 2001 Cl. 15 & 20 BS 4190: 2014 Cl. 15 & 21 BS EN 14399-10: 2009 Cl. 4.2 BS EN 14399-10: 2018 Cl. 4.2 BS EN 20898-1: 1992 + Amd. 7300 Cl. 8.1, Table 3, 6 & 8 BS EN ISO 898-1: 1999 Cl. 8.1 BS EN ISO 898-1: 2009 Cl. 9.7 BS EN ISO 898-1: 2013 Cl. 9.7 ISO 898: Part 1: 1988 Cl. 8.1, Table 3, 6 & 8
	Tensile strength test of unmachined (finished) bolts & screws in the force range 10 kN – 1000 kN	BS EN ISO 6892-1: 2009 Cl. 10.4 Method B BS EN ISO 6892-1: 2016 Cl. 10.3.3 Method B BS EN ISO 6892-1: 2019 Cl. 10.3.3 Method B in conjunction with the following specification(s): BS 3692: 1967 + Amd. 8227 Cl. 12 BS 3692: 2001 + Amd. 13183 Cl. 11 & 13 BS 3692: 2014 Cl. 14 & 21 BS 4190: 1967 + Amd. 1778, 2690 & 8226 Cl. 14 & 19 BS 4190: 2001 Cl. 15 & 20 BS 4190: 2014 Cl. 15 & 21 BS EN 14399-10: 2009 Cl. 4.2 BS EN 14399-10: 2018 Cl. 4.2 BS EN 20898-1: 1992 + Amd. 7300 Cl. 8.2, Table 3, 6 & 8 BS EN ISO 898-1: 1999 Cl. 8.2 BS EN ISO 898-1: 2009 Cl. 9.2 BS EN ISO 898-1: 2013 Cl. 9.2 ISO 898: Part 1: 1988 Cl. 8.2, Table 3, 6 & 8

PROVA Inspection & Testing Co. (HK) Limited
華鋼檢測(香港)有限公司
2/F, Factory 7, Dongyuan Chang, 28 Bei Huan Road West, Shiyan Town, Bao'an District, Shenzhen City, China
中國深圳市寶安區石岩街道北環路西 28 號東原廠廠房 7 二樓

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Metallic materials (cont'd)	Vickers hardness test of metallic materials in the scale range HV5, HV10 & HV30	BS EN ISO 6507-1: 1998 BS EN ISO 6507-1: 2005 BS EN ISO 6507-1: 2018 BS EN ISO 6507-1: 2023 in conjunction with the following specification(s): BS 3692: 2001 Table 9 BS 3692: 2014 Table 10 BS 4190: 2001 Table 14 BS 4190: 2014 Table 14 BS EN 10088-2: 2005 Table 8 BS EN 10088-2: 2014 Table 10 BS EN 14399-5: 2015 Table 3 BS EN 14399-6: 2015 Table 3 BS EN ISO 898-1: 1999 Table 3 BS EN ISO 898-1: 2009 Table 3 BS EN ISO 898-1: 2013 Table 3 BS EN ISO 3506-1: 2009 Table 3 BS EN ISO 3506-1: 2020 Table 3 BS EN ISO 3506-2: 2009 Table 3 BS EN ISO 3506-2: 2020 Table 4
Welds (destructive)	Bend test on welds in metallic materials	BS 4872: Part 1: 1982 Cl. 19.2 & 19.3 BS EN 910: 1996 BS EN ISO 5173: 2010 + A1: 2011 BS EN ISO 5173: 2023
	Cruciform test on welds in metallic materials	BS 709: 1983 + Amd. 1, 2 & 3
	Charpy V-notch impact test on welds in metallic materials	BS EN 875: 1995 BS EN ISO 9016: 2011 BS EN ISO 9016: 2012 BS EN ISO 9016: 2022
	Fracture test on welds in metallic materials	BS 4872: Part 1: 1982 Cl. 19.4 & 19.5 BS EN 1320: 1997 BS EN ISO 9017: 2013 BS EN ISO 9017: 2018 in conjunction with the following specification(s): BS EN 25817: 1992 Table 1 BS EN ISO 5817: 2003 Table 1 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 BS EN ISO 5817: 2023 Table 1 ISO 5817:1992 Table 1

PROVA Inspection & Testing Co. (HK) Limited
華鋼檢測(香港)有限公司
2/F, Factory 7, Dongyuan Chang, 28 Bei Huan Road West, Shiyan Town, Bao'an District, Shenzhen City, China
中國深圳市寶安區石岩街道北環路西 28 號東原廠廠房 7 二樓

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Welds (destructive) (cont'd)	Longitudinal tensile test on welds in metallic materials in the force range 10 kN - 1000 kN	BS EN 876: 1995 BS EN ISO 5178: 2011 BS EN ISO 5178: 2019
	Macroscopic examination on welds in metallic materials	BS 4872: Part 1: 1982 Cl. 19.1 BS EN 1321: 1997 BS EN ISO 17639: 2013 BS EN ISO 17639: 2022 in conjunction with the following specification(s): BS EN ISO 14555: 2006 Cl. 11.6 & 12.6 BS EN ISO 14555: 2014 Cl. 11.6 & 12.6 BS EN ISO 14555: 2017 Cl. 11.6 & 12.6
	Macro-etch test on welded reinforcement steel for concrete	BS 7123: 1989 Cl. 12.3.4.2 & 12.3.6
	Nick-break test on welds in metallic materials	BS 709: 1983
	Tensile test on welded reinforcement steel for concrete in the force range 10 kN - 1000 kN	BS 7123: 1989 Cl. 12.3.4.1 & 12.3.5 BS EN ISO 17660-1: 2006 Corr.: 2008 Cl. 14.2
	Transverse tensile test on welds in metallic materials in the force range 10 kN – 1000 kN	BS EN 895: 1995 BS EN ISO 4136: 2011 BS EN ISO 4136: 2012 BS EN ISO 4136: 2022
	Vickers hardness test across welded joints in the scale range HV5, HV10 & HV30	BS EN 1043-1: 1996 BS EN ISO 9015-1: 2011

Food and Environmental Hygiene Department – Man Kam To Food Laboratory
食物環境衞生署-文錦渡食物化驗室

ADDRESS : 300 Man Kam To Road
地址 New Territories, Hong Kong
香港新界北區文錦渡路300號

ENQUIRY : Dr LAM Wai-hing, Senior Chemist
查詢 林偉興博士，高級化驗師

TELEPHONE : 2867 5022
電話

FAX : 2673 8350
傳真

E-MAIL : whlam10@fehd.gov.hk
電郵

CLIENTELE : Government departments, normally not available for public testing
服務對象 通常只服務政府部門

Food and Environmental Hygiene Department – Man Kam To Food Laboratory
食物環境衞生署–文錦渡食物化驗室

ADDRESS : 300 Man Kam To Road, New Territories, Hong Kong
地址 香港新界北區文錦渡路300號

ACCREDITED TEST CATEGORY : Food 食品
認可測試類別

Food and Environmental Hygiene Department – Man Kam To Food Laboratory
食物環境衞生署–文錦渡食物化驗室

300 Man Kam To Road, New Territories, Hong Kong
香港新界北區文錦渡路 300 號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Vegetables and fruits	Pesticides :- Acephate Acetamiprid Aldicarb Aldicarb sulphone Aldicarb sulphoxide Bifenthrin Carbofuran 3- Hydroxycarbofuran Chlorpyrifos Cyhalothrin Cypermethrin Deltamethrin Dichlorvos Difenoconazole Dimethoate Dimethomorph Edifenphos Ethoprophos Fenbuconazole Fenthion Fenthion sulfoxide Fenthion sulfone Fenthion oxon Fenthion oxon sulfoxide Fenthion oxon sulfone Fenvalerate / Esfenvalerate Isocarbophos Isofenphos methyl Isoprocarb Malathion Methamidophos Methomyl Mevinphos Omethoate Parathion-ethyl Phoxim Profenofos Pyriproxyfen Thiamethoxam Thiodicarb Triazophos Trichlorfon	Screening - In-house Method TMM-P-13.1 (LC-MS/MS) Quantification and Confirmation - In-house Method TMM-P-13.2 (LC-MS/MS)

Food and Environmental Hygiene Department – Man Kam To Food Laboratory
食物環境衞生署–文錦渡食物化驗室
300 Man Kam To Road, New Territories, Hong Kong
香港新界北區文錦渡路300號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Cereal and grains	Pesticides :- Acephate Acetamiprid Aldicarb Aldicarb sulphone Aldicarb sulphoxide Bifenthrin Carbofuran 3- Hydroxycarbofuran Chlorpyrifos Cyhalothrin Cypermethrin Deltamethrin Dichlorvos Difenoconazole Dimethoate Dimethomorph Edifenphos Esfenvalerate Ethoprophos Fenbuconazole Fenthion Fenvalerate Isocarbophos Isofenphos methyl Isoprocarb Malathion Methamidophos Methomyl Mevinphos Omethoate Parathion-ethyl Phoxim Profenofos Pyriproxyfen Thiamethoxam Thiodicarb Triazophos Trichlorfon	Screening - In-house Method TMM-P-14.1 (LC-MS/MS) Quantification and Confirmation - In-house Method TMM-P-14.2 (LC-MS/MS)

Food and Environmental Hygiene Department – Man Kam To Food Laboratory
食物環境衞生署–文錦渡食物化驗室
300 Man Kam To Road, New Territories, Hong Kong
香港新界北區文錦渡路300號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Animal muscles and livers	Veterinary drug residues:- - Synthetic hormones Dienoestrol Diethylstiboestrol Hexoestrol	Quantification and Confirmation - In-house Method TMM-V-6.3 (LC-MS-MS)

Food and Environmental Hygiene Department – Man Kam To Food Laboratory
食物環境衞生署–文錦渡食物化驗室

300 Man Kam To Road, New Territories, Hong Kong
香港新界北區文錦渡路 300 號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Milk	Veterinary drug residues:- (cont'd)	
	- Sulfonamides Sulfacetamide Sulfadiazine Sulfadimethoxine Sulfadione *(Dapsone)* Sulfamerazine Sulfamethazine Sulfamethizole Sulfamethoxazole Sulfamethoxypyridazine Sulfanitran Sulfapyridine Sulfaquinoxaline Sulfathiazole Sulfisoxazole	Screening - In-house Method TMM-V-1.1 (RIA screening) Confirmation - In-house Method TMM-V-2.4 (LC-MS-MS)
	Sulfacetamide Sulfadiazine Sulfadimethoxine Sulfadione Sulfamerazine Sulfamethazine Sulfamethizole Sulfamethoxazole Sulfamethoxypyridazine Sulfapyridine Sulfaquinoxaline Sulfathiazole Sulfisoxazole	Quantification - In-house Method TMM-V-2.2 (LC-Fluorescence detection)
	- Tetracyclines Chlortetracycline Oxytetracycline Tetracycline	Screening - In-house Method TMM-V-1.1 (RIA screening)
	Chlortetracycline Oxytetracycline Tetracycline Doxycycline	Quantification - In-house Method TMM-V-3.1 (LC-Diode Array Detection) Confirmation - In-house Method TMM-V-3.3

Food and Environmental Hygiene Department – Man Kam To Food Laboratory
食物環境衞生署–文錦渡食物化驗室

300 Man Kam To Road, New Territories, Hong Kong
香港新界北區文錦渡路 300 號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Milk (cont'd)	Veterinary drugs residues:- (cont'd)	
	- Chloramphenicol	Screening - In-house Method TMM-V-1.1 - In-house Method TMM-V-1.2 (RIA screening) Quantification and confirmation - In-house Method TMM-V-4.3 (LC-MS-MS)
	- Beta-lactams Amoxycillin Ampicillin Benzylpenicillin Cloxacillin Dicloxacillin	Screening - In-house Method TMM-V-1.1 (RIA screening) Quantification and confirmation - In-house Method TMM-V-5.3 (LC-MS-MS)
	Ceftiofur	Quantification and confirmation - In-house Method TMM-V-5.4 (LC-MS-MS)
	- Quinolones Ciprofloxacin Enrofloxacin	Quantification and confirmation - In-house Method TMM-V-7.2 (LC-MS-MS)
	- Aminoglycosides Dihydrostreptomycin Streptomycin Gentamicin Neomycin B	Quantification and confirmation - In-house Method TMM-V-11.1 (LC-MS-MS)
	Spectinomycin	Quantification and confirmation - In-house Method TMM-V-11.1 (LC-MS-MS)
	- Lincosamides Lincomycin	Quantification and confirmation - In-house Method TMM-V-11.1 (LC-MS-MS)

Food and Environmental Hygiene Department – Man Kam To Food Laboratory
食物環境衞生署–文錦渡食物化驗室

300 Man Kam To Road, New Territories, Hong Kong
香港新界北區文錦渡路 300 號

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Milk (cont'd)	Veterinary drugs residues:- (cont'd)	
	- Macrolides	
	Erythromycin Tylosin	Quantification and confirmation - In-house Method TMM-V-12.1 (LC-MS-MS)
	Trimethoprim	Quantification and confirmation - In-house Method TMM-V-12.1 (LC-MS-MS)
	- Polypeptides	
	Bacitracin Colistin	Quantification and confirmation - In-house Method TMM-V-14.1 (LC-MS-MS)
	Contaminant:-	
	- Melamine	In-house method TMM-M-1.1 (LC-MS/MS)
Meat	Veterinary drugs residues:-	
	- Chloramphenicol	Quantification and confirmation - In-house Method TMM-V-4.4 (LC-MS-MS)
General Foodstuff	Contaminant:-	
	- Melamine	In-house method TMM-M-1.2 (LC-MS/MS)

C & K Instrument (HK) Limited – Calibration Services Centre
超群科學儀器有限公司 – 校正服務中心

ADDRESS 地址	:	Flat B, 2/F., Universal Industrial Centre, 19-25 Shan Mei Street, Shatin, New Territories, Hong Kong 香港沙田山尾街 19-25 號宇宙工業中心 2 樓 B 座
ENQUIRY 查詢	:	Mr Jeffery CHEN Hong-yu, Executive General Manager 陳紅宇先生
TELEPHONE 電話	:	2690 3081
FAX 傳真	:	2690 2210
E-MAIL 電郵	:	calibration@cnkgroup.com
WEBSITE ADDRESS 網址	:	www.cnkgroup.com
CLIENTELE 服務對象	:	Public 公眾

C & K Instrument (HK) Limited – Calibration Services Centre
超群科學儀器有限公司 – 校正服務中心

ADDRESS **地址**	:	Flat B, 2/F., Universal Industrial Centre, 19-25 Shan Mei Street, Shatin, New Territories, Hong Kong 香港沙田山尾街 19-25 號宇宙工業中心 2 樓 B 座
ACCREDITED TEST CATEGORIES **認可測試類別**	:	Calibration Services 校正服務

C & K Instrument (HK) Limited – Calibration Services Centre
超群科學儀器有限公司 – 校正服務中心

Flat B, 2/F., Universal Industrial Centre, 19-25 Shan Mei Street, Shatin, New Territories, Hong Kong
香港沙田山尾街 19–25 號宇宙工業中心 2 樓 B 座

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements		
- DC & LF measurements		
- AC voltmeter	Calibration for AC voltage in accordance with in-house procedure HTP09E over the following ranges:-	
	45 Hz to 10 kHz	
	3 mV to below 33 mV	0.18 % + 0.023 mV
	33 mV to below 330 mV	0.057 % + 0.024 mV
	0.33 V to below 3.3 V	0.056 % + 0.067 mV
	3.3 V to 33 V	0.047 % + 0.67 mV
	45 Hz to 1 kHz	
	33 V to below 330 V	0.056 % + 7.8 mV
	330 V to 1000 V	0.063 % + 74 mV
- AC ammeter	Calibration for AC current in accordance with in-house procedure HTP10E over the following ranges:-	
	45 Hz to 1 kHz	
	10 mA to below 33 mA	0.10 % + 0.004 mA
	33 mA to below 330 mA	0.10 % + 0.04 mA
	0.33 A to below 2.2 A	0.12 % + 0.33 mA
	45 Hz to 500 Hz	
	2.2 A to 11 A	0.13 % + 1 mA

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the

C & K Instrument (HK) Limited – Calibration Services Centre
超群科學儀器有限公司 – 校正服務中心

performance of the device during calibration.

Flat B, 2/F., Universal Industrial Centre, 19-25 Shan Mei Street, Shatin, New Territories, Hong Kong
香港沙田山尾街 19–25 號宇宙工業中心 2 樓 B 座

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements (cont'd)		
- DC & LF measurements		
- DC voltmeter	Calibration for DC voltage in accordance with in-house procedure HTP07E over the following ranges :-	
	5 mV to below 330 mV	0.0059 % + 0.0069 mV
	0.33 V to below 3.3 V	0.0056 % + 0.0056 mV
	3.3 V to below 33 V	0.0056 % + 0.056 mV
	33 V to 1000 V	0.0066 % + 0.44 mV
- DC ammeter	Calibration for DC current in accordance with in-house procedure HTP08E over the following ranges:-	
	0.3 mA to below 3.3 mA	0.029 % + 0.065 μA
	3.3 mA to below 33 mA	0.023 % + 0.35 μA
	33 mA to below 330 mA	0.024 % + 3.3 μA
	0.33 A to below 3 A	0.044 % + 0.05 mA
	3 A to 11 A	0.070 % + 0.38 mA
- Ohmmeter	Calibration for resistance in accordance with in-house procedure HTP12E over the following ranges :-	
	2 Ω to below 330 Ω	0.013 % + 11 mΩ
	330 Ω to below 3.3 kΩ	0.011 % + 66 mΩ
	3.3 kΩ to below 33 kΩ	0.011 % + 0.66 Ω
	33 kΩ to below 330 kΩ	0.014 % + 6.5 Ω
	330 kΩ to below 3.3 MΩ	0.018 % + 64 Ω
	3.3 MΩ to 30 MΩ	0.12 %

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

C & K Instrument (HK) Limited – Calibration Services Centre
超群科學儀器有限公司 – 校正服務中心

Flat B, 2/F., Universal Industrial Centre, 19-25 Shan Mei Street, Shatin, New Territories, Hong Kong
香港沙田山尾街 19–25 號宇宙工業中心 2 樓 B 座

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements (cont'd)		
- DC & LF measurements		
- Earth resistance tester	Calibration for resistance in accordance with in-house procedure HTP13E over the following ranges:-	
	50 Hz to 1 kHz	
	1 Ω to 9 Ω	1.2 %
	10 Ω to 14 Ω	0.5 %
	15 Ω to 19 Ω	0.69 %
	20 Ω to 49 Ω	0.51 %
	50 Ω to 99 Ω	0.33 %
	100 Ω to 199 Ω	0.26 %
	200 Ω to 999 Ω	0.17 %
	1 kΩ to 1.999 kΩ	0.2 %
	2 kΩ to 5 kΩ	0.15 %
- Low resistance ohmmeter	Calibration for DC resistance in accordance with in-house procedure HTP14E at the following values:-	
	1 mΩ	0.0012 mΩ
	10 mΩ	0.012 mΩ
	50 mΩ	0.06 mΩ
	100 mΩ	0.12 mΩ
	200 mΩ	0.23 mΩ
	1 Ω	0.0012 Ω
	1.9 Ω	0.0021 Ω
	10 Ω	0.011 Ω
	19 Ω	0.021 Ω
	100 Ω	0.12 Ω
	1 kΩ	0.0011 kΩ

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

C & K Instrument (HK) Limited – Calibration Services Centre
超群科學儀器有限公司 – 校正服務中心

Flat B, 2/F., Universal Industrial Centre, 19-25 Shan Mei Street, Shatin, New Territories, Hong Kong
香港沙田山尾街 19-25 號宇宙工業中心 2 樓 B 座

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements (cont'd)		
- DC & LF measurements		
- Insulation tester	Calibration for insulation resistance in accordance with in-house procedure HTP15E over the following ranges:-	
	50 V to 1000 V	
	0.1 MΩ to 2.5 MΩ	0.01 MΩ
	2.6 MΩ to 5 MΩ	0.02 MΩ
	5.1 MΩ to 900 MΩ	1.8 %
	Calibration for insulation test voltage at 1 mA in accordance with in-house procedure HTP16E at the following values:-	
	50 V at 50 kΩ	1.2%
	100 V at 100 kΩ	1.2%
	250 V at 250 kΩ	1.2%
	500 V at 500 kΩ	1.2%
	1000 V at 1 MΩ	1.2%
- Continuity tester	Calibration for resistance in accordance with in-house procedure HTP17E over the following range:-	
	10 Ω to 1 kΩ	1.2%
- Earth loop tester	Calibration for L-E loop impedance in accordance with in-house procedure HTP18E at the following values:-	
	1 Ω	0.05 Ω
	5 Ω	0.06 Ω
	10 Ω	0.07 Ω
	100 Ω	0.5 Ω
	1000 Ω	7 Ω

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

C & K Instrument (HK) Limited – Calibration Services Centre
超群科學儀器有限公司 – 校正服務中心

Flat B, 2/F., Universal Industrial Centre, 19-25 Shan Mei Street, Shatin, New Territories, Hong Kong
香港沙田山尾街 19-25 號宇宙工業中心 2 樓 B 座

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements		
- DC & LF measurements		
- RCD tester	Calibration for RCD test current at 50 Hz in accordance with in-house procedure HTP19E over the following range:-	
	10 mA to 1000 mA	1.46% + 0.065mA
	Calibration for RCD trip time at 50 Hz in accordance with in-house procedure HTP20E over the following range:-	
	at 30 mA 20 ms to 290 ms	1.1 ms

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Chinese University of Hong Kong – School of Pharmacy - Bioanalytical Unit
香港中文大學藥劑學院藥物檢定中心

ADDRESS 地址	:	Rm. 823, 8/F, Lo Kwee Seong Integrated Biomedical Sciences Building, The Chinese University of Hong Kong, Shatin, New Territories. 香港中文大學羅桂祥綜合生物醫學大樓 8 樓 823 室
ENQUIRY 查詢	:	Ms Celia TANG Wing Shan, Technical Manager 鄧詠珊女士, 技術部經理
TELEPHONE 電話	:	3943 5760
FAX 傳真	:	2603 5295
E-MAIL 電郵	:	celiatang@cuhk.edu.hk
WEBSITE ADDRESS 網址	:	http://www.pharmacy.cuhk.edu.hk/
CLIENTELE 服務對象	:	Public 公眾

The Chinese University of Hong Kong – School of Pharmacy - Bioanalytical Unit
香港中文大學藥劑學院藥物檢定中心

ADDRESS **地址**	:	Rm. 823, 8/F, Lo Kwee Seong Integrated Biomedical Sciences Building, The Chinese University of Hong Kong, Shatin, New Territories. 香港中文大學羅桂祥綜合生物醫學大樓 8 樓 823 室
ACCREDITED TEST CATEGORY **認可測試類別**	:	Pharmaceutical Products 藥物

The Chinese University of Hong Kong – School of Pharmacy - Bioanalytical Unit
香港中文大學藥劑學院藥物檢定中心

Rm. 823, 8/F, Lo Kwee Seong Integrated Biomedical Sciences Building, The Chinese University of Hong Kong, Shatin, N.T..
香港中文大學羅桂祥綜合生物醫學大樓 8 樓 823 室

Pharmaceutical Products 藥物		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Physical and Chemical tests:-	
Amoxicillin Capsules	a. Identification (All tests) - Test A: Infrared absorption spectrum - Test B: Thin-layer chromatography b. Assay c. Uniformity of Dosage Unit (hard capsule) - Mass variation d. Disintegration	British Pharmacopoeia 2025 (BP 2025)
Paracetamol Tablets	a. Identification (All tests) - Test A: Infrared absorption spectrum - Test B: Colour test - Test C: Melting point b. Dissolution c. Related substances d. Assay e. Uniformity of Dosage Unit (uncoated and film-coated tablet) - Mass variation	British Pharmacopoeia 2024 (BP 2024)
Liquid Dosage Form Pharmaceutical Preparation	pH	British Pharmacopoeia 2025 (BP 2025)

Sam Hing Scales Factory Limited – Testing and Calibration Laboratory
三興製磅廠有限公司 – 測試及校正實驗室

ADDRESS 地址	:	Room 402, 4/F, Fuk Hong Industrial Building, 60 Tong Mi Road, Mongkok, Kowloon, Hong Kong 香港九龍旺角塘尾道 60 號福康工業大廈 4 字樓 402 室
ENQUIRY 查詢	:	Mr William TANG Yeung-wai, Quality Manager 鄧揚威先生
TELEPHONE 電話	:	2393 1144
FAX 傳真	:	2789 3030
E-MAIL 電郵	:	lab@samhing.com.hk
WEBSITE ADDRESS 網址	:	www.samhing.com.hk
CLIENTELE 服務對象	:	Public 公眾

Sam Hing Scales Factory Limited – Testing and Calibration Laboratory
三興製磅廠有限公司 – 測試及校正實驗室

ADDRESS **地址**	:	Room 402, 4/F, Fuk Hong Industrial Building, 60 Tong Mi Road, Mongkok, Kowloon, Hong Kong 香港九龍旺角塘尾道 60 號福康工業大廈 4 字樓 402 室
ACCREDITED TEST CATEGORY **認可測試類別**	:	Calibration Services 校正服務

Sam Hing Scales Factory Limited – Testing and Calibration Laboratory
三興製磅廠有限公司 – 測試及校正實驗室
Room 402, 4/F, Fuk Hong Industrial Building, 60 Tong Mi Road, Mongkok, Kowloon, Hong Kong
香港九龍旺角塘尾道 60 號福康工業大廈 4 字樓 402 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related quantities		
- Balance	Calibration for mass using following OIML Class standard weights (1) E2 weights from 1 mg to 10 kg, (2) F1 weights from 1 mg to 10 kg, (3) F2 weights from 1 mg to 50 kg, (4) M1 weights from 0.5 g to 50 kg (5) M2 weights from 0.5 g to 100 kg (6) M2 weights from 500 kg to 1000 kg in accordance with in-house procedure STC1 over the following ranges:	
	1 mg to 5 g	0.04 mg
	above 5 g to 200 g	0.02 mg
	above 200 g to 1000 g	0.2 mg
	above 1000 g to 6000 g	2 mg
	above 6 kg to 60 kg	4 mg
	above 60 kg to 600 kg	0.07 g
	above 600 kg to 1000 kg	7 g
	On-site calibration for mass using following OIML Class standard weights (1) E2 weights from 1 mg to 10 kg, (2) F1 weights from 1 mg to 10 kg, (3) F2 weights from 1 mg to 50 kg, (4) M1 weights from 0.5 g to 50 kg (5) M2 weights from 0.5 g to 100 kg (6) M2 weights from 500 kg to 1000 kg in accordance with in-house procedure STC1 over the following ranges:	
	1 mg to 5 g	0.04 mg
	above 5 g to 200 g	0.02 mg
	above 200 g to 1000 g	0.2 mg
	above 1000 g to 6000 g	2 mg
	above 6 kg to 60 kg	4 mg
	above 60 kg to 600 kg	0.07 g
	above 600 kg to 6000 kg	7 g
	above 6000 kg to 60000 kg	2 kg
	above 60000 kg to 100000 kg	40 kg

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Sam Hing Scales Factory Limited – Testing and Calibration Laboratory
三興製磅廠有限公司 – 測試及校正實驗室
Room 402, 4/F, Fuk Hong Industrial Building, 60 Tong Mi Road, Mongkok, Kowloon, Hong Kong
香港九龍旺角塘尾道 60 號福康工業大廈 4 字樓 402 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related quantities (cont'd)		
- Weight (Standard values)	Calibration for mass in accordance with in-house procedure MC1 using comparison method at the following specific nominal values :	
	1 g	0.04 mg
	2 g	0.08 mg
	5 g	0.08 mg
	10 g	0.08 mg
	20 g	0.08 mg
	50 g	0.08 mg
	100 g	0.08 mg
	200 g	0.15 mg
	500 g	2.5 mg
	1 kg	3.0 mg
	2 kg	3.0 mg
	5 kg	4.0 mg
	10 kg	30.0 mg
	20 kg	50.0 mg
	50 kg	210.0 mg
	100 kg	3.5 g
	200 kg	4.0 g
	500 kg	10.0 g
	1000 kg	20.0 g

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Prima Technical Services Limited
卓越技術服務有限公司

ADDRESS 地址	:	Unit 16-A3, 1/F, Block A, Focal Industrial Centre, 21 Man Lok Street, Hunghom, Kowloon, Hong Kong 香港九龍紅磡民樂街 21 號富高工業中心 A 座 1 樓 16-A3 室
ENQUIRY 查詢	:	Mr SHUM Siu-hung, Director 沈少雄先生，董事
TELEPHONE 電話	:	2180 8983
FAX 傳真	:	2180 8993
E-MAIL 電郵	:	168prima@gmail.com
WEBSITE ADDRESS 網址	:	http://www.ptsl.hk
CLIENTELE 服務對象	:	Public 公眾

Contact details last updated on: 22 May 2025

Prima Technical Services Limited
卓越技術服務有限公司

ADDRESS **地址**	:	Unit 16-A3, 1/F, Block A, Focal Industrial Centre, 21 Man Lok Street, Hunghom, Kowloon, Hong Kong 香港九龍紅磡民樂街 21 號富高工業中心 A 座 1 樓 16-A3 室
ACCREDITED TEST CATEGORY **認可測試類別**	:	Construction Materials 建築材料

Prima Technical Services Limited
卓越技術服務有限公司
Unit 16-A3, 1/F, Block A, Focal Industrial Centre, 21 Man Lok Street, Hunghom, Kowloon, Hong Kong
香港九龍紅磡民樂街 21 號富高工業中心 A 座 1 樓 16-A3 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Adhesive	Pull-off test of render	In-house method PTS06 (by coring method) In-house method PTS18 (by saw-cut method)
	Pull-off test of repair mortar	In-house method PTS11 (by coring method) In-house method PTS19 (by saw-cut method)
	Pull-off test of plaster	In-house method PTS08 (by coring method)
	Pull-off test of tile adhesive	In-house method PTS07 (by coring method) In-house method PTS05 (by saw-cut method)
Coating	Pull-off test of adhesion	In-house method PTS09 (by coring method)
Concrete (diagnostic)	Surface hardness measurement	BS EN 12504-2: 2001 BS EN 12504-2: 2012
Structural fixings	Tensile proof load test of drilled-in anchors used for cantilevered structure/hanger/curtain wall remedial works by incremental loading in the force range 2.5 kN – 120 kN	Buildings Department PNAP APP-169 (Oct 2023) App. A
	Tensile proof load test of drilled-in anchors used for works other than cantilevered structure /hanger/curtain wall remedial works in the force range 2.5 kN – 120 kN	Buildings Department PNAP APP-169 (Oct 2023) App. B
	Tensile proof load test for cementitious or polymer based grouted bolts or dowels or reinforcing bars works in the force range 2.5 kN – 120 kN	Buildings Department PNAP APP-169 (Oct 2023) App. C

Food and Environmental Hygiene Department - Food Research Laboratory
食物環境衞生署 – 食物研究化驗所

ADDRESS : 4/F., Public Health Laboratory Centre, 382 Nam Cheong Street, Kowloon
地址 九龍南昌街 382 號公共衞生檢測中心 4 字樓

ENQUIRY : Dr Gabriel CHAN Yee-shun
查詢 陳以信博士

TELEPHONE : 2319 8439
電話

FAX : 2776 4335
傳真

E-MAIL : gyschan@fehd.gov.hk
電郵

CLIENTELE : Government departments, normally not available for public testing
服務對象 通常只服務政府部門

Food and Environmental Hygiene Department - Food Research Laboratory
食物環境衞生署 – 食物研究化驗所

ADDRESS : 4/F., Public Health Laboratory Centre, 382 Nam Cheong Street, Kowloon
地址 九龍南昌街 382 號公共衞生檢測中心 4 字樓

ACCREDITED TEST CATEGORY : Food 食品
認可測試類別

Food and Environmental Hygiene Department - Food Research Laboratory
食物環境衞生署 – 食物研究化驗所
4/F., Public Health Laboratory Centre, 382 Nam Cheong Street, Kowloon
九龍南昌街 382 號公共衞生檢測中心 4 字樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
General foodstuff	Total fat	In-house method NU-FAT-2 (By acid hydrolysis)
	Saturated fatty acids ($C_{4:0}$, $C_{6:0}$, $C_{8:0}$, $C_{10:0}$ $C_{12:0,}$ $C_{14:0}$, $C_{15:0}$, $C_{16:0}$, $C_{17:0}$, $C_{18:0}$, $C_{20:0}$, $C_{22:0}$, $C_{24:0}$)	In-house method NU-FAS-1 (By gas chromatography)
	Trans fatty acids ($C_{14:1T}$(9-*trans*), $C_{16:1T}$(9-*trans*), $C_{18:1T}$(total), $C_{18:2TT}$(9,12-*trans*), $C_{18:2T}$(9-*cis*,12-*trans*), $C_{18:2T}$(9-*trans*,12-*cis*) $C_{20:1T}$(11-*trans*), $C_{22:1T}$(13-*trans*)) $C_{18:3T}$(total)	In-house method NU-FAS-1 (By gas chromatography)
	Protein	In-house method NU-PRO-1 (By semi-automatic Kjeldahl type equipment using block digestor, protein = nitrogen x 6.25) In-house method NU-PRO-2 (By combustion, protein = nitrogen x 6.25)
	Sugars:- Fructose, galactose, glucose, lactose, maltose, sucrose	In-house method NU-CAR-1 (By HPLC-RI)
	Cholesterol	In-house method NU-CHO-1 (By gas chromatography)
	Total Dietary Fibre	AOAC Official Method 985.29 (By enzymatic-gravimetric method)
	Moisture dried at 105ºC	In-house method NU-MOI-1 (By oven drying) In-house method NU-TGA-1 (By thermogravimetric method)
	Total ash at 525ºC	In-house method NU-ASH-1 (By drying and ashing)
	Total ash at 550ºC	In-house method NU-TGA-1 (By thermogravemetric method)
	Metals:- Sodium, calcium	In-house method NU-ELE-2 (By ICP-OES)

Asian Gemmological Institute and Laboratory Limited
亞洲寶石學院及鑑定所有限公司

ADDRESS : 707-8, 7/F, Hang Seng Tsimshatsui Building, 18 Carnarvon Road, Tsimshatsui, Kowloon, Hong Kong.
地址 香港九龍尖沙咀加拿芬道 18 號恒生尖沙咀大廈 7 樓 707-8

ENQUIRY : Mr Dominic MOK Wai-kei
查詢 莫偉基先生

TELEPHONE : 2723 0429
電話

FAX : 2367 5201
傳真

E-MAIL : agil@agil.com.hk
電郵

CLIENTELE : Public testing services
服務對象 公眾測試服務

Asian Gemmological Institute and Laboratory Limited
亞洲寶石學院及鑑定所有限公司

ADDRESS **地址**	:	707-8, 7/F, Hang Seng Tsimshatsui Building, 18 Carnarvon Road, Tsimshatsui, Kowloon, Hong Kong. 香港九龍尖沙咀加拿芬道 18 號恒生尖沙咀大廈 7 樓 707−8
ACCREDITED TEST CATEGORY **認可測試類別**	:	Physical and Mechanical Testing 物理及機械測試

Asian Gemmological Institute and Laboratory Limited
亞洲寶石學院及鑑定所有限公司
707-8, 7/F, Hang Seng Tsimshatsui Building, 18 Carnarvon Road, Tsimshatsui, Kowloon, Hong Kong.
香港九龍尖沙咀加拿芬道 18 號恒生尖沙咀大廈 7 樓 707–8

Physical and Mechanical Testing 物理及機械測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Gemstone Testing (Fei Cui)	Shape and cut identification	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 1
	Measurement of dimensions	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 2
	Measurement of weight	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 3
	Identification of transparency	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 4
	Identification of colour	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 5
	Polariscope examination	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 6
	Determination of refractive index	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 7
	Determination of specific gravity	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 8
	Examination of fluorescence	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 9

Asian Gemmological Institute and Laboratory Limited
亞洲寶石學院及鑑定所有限公司

707-8, 7/F, Hang Seng Tsimshatsui Building, 18 Carnarvon Road, Tsimshatsui, Kowloon, Hong Kong.
香港九龍尖沙咀加拿芬道 18 號恒生尖沙咀大廈 7 樓 707–8

Physical and Mechanical Testing 物理及機械測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Gemstone Testing (Fei Cui) (cont'd)	Chelsea colour filter examination	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 10
	Spectroscopic examination	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 11
	Magnification examination	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 12
	Infrared spectrum examination	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 13
	Identification of Fei Cui and its type	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited

China Gems Laboratory Limited
中華珠寶鑑定中心有限公司

ADDRESS 地址	:	Floor 15, Metropole Square, 2 On Yiu Street, Shek Mun, Shatin, N.T., Hong Kong 香港新界沙田石門安耀街 2 號新都廣場 15 樓
ENQUIRY 查詢	:	Mr LAU Chun-kit, Laboratory Assistant Director 劉進傑先生，鑑定室副總監
TELEPHONE 電話	:	2783 2742
FAX 傳真	:	2770 7185
E-MAIL 電郵	:	info@chinagemslab.com
WEBSITE 網址	:	www.chinagemslab.com
CLIENTELE 服務對象	:	Public testing services 公眾測試服務

China Gems Laboratory Limited
中華珠寶鑑定中心有限公司

ADDRESS **地址**	:	Floor 15, Metropole Square, 2 On Yiu Street, Shek Mun, Shatin, New Territories, Hong Kong 香港新界沙田石門安耀街 2 號新都廣場 15 樓
ACCREDITED TEST CATEGORY **認可測試類別**	:	Chemical Testing 化學測試 Physical and Mechanical Testing 物理及機械測試

China Gems Laboratory Limited
中華珠寶鑑定中心有限公司

Floor 15, Metropole Square, 2 On Yiu Street, Shek Mun, Shatin, New Territories, Hong Kong
香港新界沙田石門安耀街 2 號新都廣場 15 樓

Chemical Testing 化學測試			
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術	
Gold and gold alloys	Fineness	ISO 11426 : 2021	.vs.
		GB/T 9288 – 2019 <***Excluding the following***> Cl. 8.4.3	.vs.

China Gems Laboratory Limited
中華珠寶鑑定中心有限公司

Floor 15, Metropole Square, 2 On Yiu Street, Shek Mun, Shatin, New Territories, Hong Kong
香港新界沙田石門安耀街 2 號新都廣場 15 樓

Physical and Mechanical Testing 物理及機械測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Gemstone Testing (Fei Cui)	Shape and cut identification	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 1
	Measurement of dimensions	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 2
	Measurement of weight	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 3
	Identification of transparency	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 4
	Identification of colour	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 5
	Polariscope examination	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 6
	Determination of refractive index	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 7
	Determination of specific gravity	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 8
	Examination of fluorescence	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 9

China Gems Laboratory Limited
中華珠寶鑑定中心有限公司

Floor 15, Metropole Square, 2 On Yiu Street, Shek Mun, Shatin, New Territories, Hong Kong
香港新界沙田石門安耀街 2 號新都廣場 15 樓

Physical and Mechanical Testing 物理及機械測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Gemstone Testing (Fei Cui) (cont'd)	Chelsea colour filter examination	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 10
	Spectroscopic examination	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 11
	Magnification examination	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 12
	Infrared spectrum examination	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 13
	Identification of Fei Cui and its type	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited

China Gems Laboratory Limited
中華珠寶鑑定中心有限公司

Floor 15, Metropole Square, 2 On Yiu Street, Shek Mun, Shatin, New Territories, Hong Kong
香港新界沙田石門安耀街 2 號新都廣場 15 樓

Physical and Mechanical Testing 物理及機械測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Diamond Identification and Grading	Authenticity identification	Standard Methods for Testing Diamond for Hong Kong (HKSM/DT-2008) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 1 and Definition and physical properties of "diamond"
	Weight measurement	Standard Methods for Testing Diamond for Hong Kong (HKSM/DT-2008) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 2
	Colour grading	Standard Methods for Testing Diamond for Hong Kong (HKSM/DT-2008) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 3
	Fluorescence	Standard Methods for Testing Diamond for Hong Kong (HKSM/DT-2008) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 4
	Clarity grading	Standard Methods for Testing Diamond for Hong Kong (HKSM/DT-2008) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 5
	Shape & cutting style, proportion and finish grading	Standard Methods for Testing Diamond for Hong Kong, (HKSM/DT-2008) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 6
	Cut grading of round brilliant diamond	Standard Methods for Testing Diamond for Hong Kong (HKSM/DT-2008) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 7

China Gems Laboratory Limited
中華珠寶鑑定中心有限公司

Summary of Voluntary Suspension

.vs. denotes tests for which accreditation has been voluntarily suspended with effect from 13 January 2025. (Notification Letter no. HOKLAS152-37)

Hong Kong Jade & Stone Laboratory Limited
香港玉石鑑定中心有限公司

ADDRESS : Flat A, 12 Floor, Kaiser Estate Phase I, 41, Man Yue Street, Hung Hom, Kowloon, Hong Kong
地址 香港九龍紅磡民裕街 41 號凱旋工商中心第一期十二樓 A 座

ENQUIRY : Ms Joanne CHAN Wai-ching, Chief Gemmologist
查詢 陳惠貞小姐，首席寶石鑑定師

TELEPHONE : 2388 9688
電話

FAX : 2388 9921
傳真

E-MAIL : hkjsl@netvigator.com
電郵

CLIENTELE : Public testing services
服務對象 公眾測試服務

Contact details last updated on: 5 February 2016

Hong Kong Jade & Stone Laboratory Limited
香港玉石鑑定中心有限公司

ADDRESS 地址	Room 1401-2, 14/F, Chow Sang Sang Bldg, 229 Nathan Road, Kowloon, Hong Kong 香港九龍彌敦道 229 號周生生大厦 14 樓 1401-2 室

ACCREDITED TEST CATEGORY : Physical and Mechanical Testing 物理及機械測試
認可測試類別

Hong Kong Jade & Stone Laboratory Limited
香港玉石鑑定中心有限公司
Room 1401-2, 14/F, Chow Sang Sang Bldg, 229 Nathan Road, Kowloon, Hong Kong
香港九龍彌敦道 229 號周生生大廈 14 樓 1401-2 室

Physical and Mechanical Testing 物理及機械測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Gemstone Testing (Fei Cui)	Shape and cut identification	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 1
	Measurement of dimensions	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 2
	Measurement of weight	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 3
	Identification of transparency	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 4
	Identification of colour	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 5
	Polariscope examination	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 6
	Determination of refractive index	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 7
	Determination of specific gravity	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 8
	Examination of fluorescence	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 9

Hong Kong Jade & Stone Laboratory Limited
香港玉石鑑定中心有限公司
Room 1401-2, 14/F, Chow Sang Sang Bldg, 229 Nathan Road, Kowloon, Hong Kong
香港九龍彌敦道 229 號周生生大厦 14 樓 1401-2 室

Physical and Mechanical Testing 物理及機械測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Gemstone Testing (Fei Cui) (cont'd)	Chelsea colour filter examination	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 10
	Spectroscopic examination	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 11
	Magnification examination	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 12
	Infrared spectrum examination	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 13
	Identification of Fei Cui and its type	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited

Pharmtech (Hong Kong) Limited – Quality Control Laboratory
科達藥業有限公司 – 品質控制實驗室

ADDRESS 地址	:	Unit 1C, 6/F, Cheung Fung Industrial Building, 23-39 Pak Tin Par Street, Tsuen Wan, Hong Kong. 香港荃灣白田壩街 23-39 號長豐工業大廈 6 樓 1C 室
ENQUIRY 查詢	:	Ms Joanna LI Kit-ching, Director 李潔貞女士，主管
TELEPHONE 電話	:	2499 8886
FAX 傳真	:	2499 0077
E-MAIL 電郵	:	joanna.li@pharmtech.com.hk
CLIENTELE 服務對象	:	Public 公眾

Pharmtech (Hong Kong) Limited – Quality Control Laboratory
科達藥業有限公司 – 品質控制實驗室

ADDRESS **地址**	:	Unit 1C, 6/F, Cheung Fung Industrial Building, 23-39 Pak Tin Par Street, Tsuen Wan, Hong Kong. 香港荃灣白田壩街 23-39 號長豐工業大廈 6 樓 1C 室
ACCREDITED TEST CATEGORY **認可測試類別**	:	Chemical Testing 化學測試 Chinese Medicine 中藥 Pharmaceutical Products 藥物

Pharmtech (Hong Kong) Limited – Quality Control Laboratory
科達藥業有限公司 – 品質控制實驗室
Unit 1C, 6/F, Cheung Fung Industrial Building, 23-39 Pak Tin Par Street, Tsuen Wan, Hong Kong.
香港荃灣白田壩街 23-39 號長豐工業大廈 6 樓 1C 室

Chemical Testing 化學測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Powder form polyelectrolytes for wastewater and sludge treatment	Moisture Content (103-105ºC)	Drainage Services Department, HKSAR, Stonecutters Island Laboratory Standard Testing Manual SCI/STMA/014 Version 1.7 (Gravimetric)
	Organic Content (550±50ºC)	Drainage Services Department, HKSAR, Stonecutters Island Laboratory Standard Testing Manual SCI/STMA/024 Version 1.5 (Gravimetric)
Polyelectrolytes for wastewater and sludge treatment	Brookfield viscosity	Drainage Services Department, HKSAR, Stonecutters Island Laboratory Standard Testing Manual SCI /STMA/004 Version 2.3

Pharmtech (Hong Kong) Limited – Quality Control Laboratory
科達藥業有限公司 – 品質控制實驗室
Unit 1C, 6/F, Cheung Fung Industrial Building, 23-39 Pak Tin Par Street, Tsuen Wan, Hong Kong.
香港荃灣白田壩街 23-39 號長豐工業大廈 6 樓 1C 室

Chinese Medicine 中藥		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Proprietary Chinese Medicines	Microbiological examinations:- - Microbial Limit Test 微生物限度檢查法: Aerobic bacteria count 細菌數 Mold and Yeast count 霉菌與酵母菌數 *E. Coli* 大腸埃希菌	Pharmacopoeia of the People's Republic of China 2010, Volume I, Appendix XIII C 中華人民共和國藥典2010年版一部附錄XIIIC

Pharmtech (Hong Kong) Limited – Quality Control Laboratory
科達藥業有限公司 – 品質控制實驗室
Unit 1C, 6/F, Cheung Fung Industrial Building, 23-39 Pak Tin Par Street, Tsuen Wan, Hong Kong.
香港荃灣白田壩街 23-39 號長豐工業大廈 6 樓 1C 室

Pharmaceutical Products 藥物		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Physical and Chemical tests: -	
Acetaminophen Tablets	a. Identification b. Assay	United Stated Pharmacopeia 2019 (USP 42th edition)
Uncoated Tablets	Disintegration	British Pharmacopoeia 2020, Appendix XIIA, Test A
Liquid-dosage-form pharmaceutical preparation (excluding samples in suspensions, emulsions or solutions of non-aqueous or partially non-aqueous character)	Determination of pH	British Pharmacopoeia 2020, Appendix VL
Syrup-dosage-form pharmaceutical preparation	Viscosity	In-house method SOP-LAB6009 (Brookfield Viscometer)

Pharmtech (Hong Kong) Limited – Quality Control Laboratory
科達藥業有限公司 – 品質控制實驗室
Unit 1C, 6/F, Cheung Fung Industrial Building, 23-39 Pak Tin Par Street, Tsuen Wan, Hong Kong.
香港荃灣白田壩街 23-39 號長豐工業大廈 6 樓 1C 室

Pharmaceutical Products 藥物		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Non-sterile aqueous and non-aqueous preparations for oral use ***<Excluding the following>*** Oral dosage form containing raw material of natural (animal, vegetal or mineral) origin	Microbiological examinations:- Microbial enumeration tests Test for specified micro-organisms *Escherichia coli*	 British Pharmacopoeia (2020), App. XVI B-2 British Pharmacopoeia (2020), App. XVI B-1 ***<Excluding the following>:*** Bile-tolerant Gram-negative Bacteria *Salmonella* spp *Pseudomonas aeruginosa* *Staphylococcus aureus* Clostridia *Candida albicans*

Hong Kong Gems Laboratory Company Limited
香港寶石鑑定所有限公司

ADDRESS 地址	:	Room 30-36, 1/F, The Jade Plaza, 513-531 Canton Road, Jordan, Kowloon, Hong Kong 香港九龍佐敦廣東道 513-531 號玉石交易廣場 1 樓 30-36 室
ENQUIRY 查詢	:	Ms OU YANG Chiu-mei 歐陽秋眉女士
TELEPHONE 電話	:	2815 1880
FAX 傳真	:	2854 3970
E-MAIL 電郵	:	Lab@hkgems.com.hk
CLIENTELE 服務對象	:	Public testing services 公眾測試服務

Hong Kong Gems Laboratory Company Limited
香港寶石鑑定所有限公司

ADDRESS **地址**	:	Room 30-36, 1/F, The Jade Plaza, 513-531 Canton Road, Jordan, Kowloon, Hong Kong 香港九龍佐敦廣東道 513-531 號玉石交易廣場 1 樓 30-36 室
ACCREDITED TEST CATEGORY **認可測試類別**	:	Physical and Mechanical Testing 物理及機械測試

Hong Kong Gems Laboratory Company Limited
香港寶石鑑定所有限公司
Room 30-36, 1/F, The Jade Plaza, 513-531 Canton Road, Jordan, Kowloon, Hong Kong
香港九龍佐敦廣東道 513-531 號玉石交易廣場 1 樓 30-36 室

Physical and Mechanical Testing 物理及機械測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Gemstone Testing (Fei Cui)	Shape and cut identification	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 1
	Measurement of dimensions	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 2
	Measurement of weight	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 3
	Identification of transparency	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 4
	Identification of colour	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 5
	Polariscope examination	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 6
	Determination of refractive index	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 7
	Determination of specific gravity	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 8
	Examination of fluorescence	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 9

Hong Kong Gems Laboratory Company Limited
香港寶石鑑定所有限公司
Room 30-36, 1/F, The Jade Plaza, 513-531 Canton Road, Jordan, Kowloon, Hong Kong
香港九龍佐敦廣東道 513-531 號玉石交易廣場 1 樓 30-36 室

Physical and Mechanical Testing 物理及機械測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Gemstone Testing (Fei Cui) (cont'd)	Chelsea colour filter examination	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 10
	Spectroscopic examination	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 11
	Magnification examination	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 12
	Infrared spectrum examination	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 13
	Identification of Fei Cui and its type	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited

HILTI (Hong Kong) Limited – Testing Laboratory
喜利得(香港)有限公司 – 試驗所

ADDRESS 地址	:	701-704A & 708A&B, 7/F, Tower A, Manulife Financial Centre, 223 Wai Yip Street, Kwun Tong, Kowloon, Hong Kong 香港九龍觀塘偉業街 223 號宏利金融中心 A 座 7 樓 701-704A 及 708A&B 室
ENQUIRY 查詢	:	Mr CHEUNG Chi-hung, Quality Manager 張志雄先生，品質經理
TELEPHONE 電話	:	9310 2317, 8228 8118
FAX 傳真	:	2954 1751
E-MAIL 電郵	:	hksales@hilti.com
WEBSITE ADDRESS **網址**	:	https://www.hilti.com.hk/zh
CLIENTELE 服務對象	:	Public 公眾

HILTI (Hong Kong) Limited – Testing Laboratory
喜利得(香港)有限公司 – 試驗所

ADDRESS **地址**	:	701-704A & 708A&B, 7/F, Tower A, Manulife Financial Centre, 223 Wai Yip Street, Kwun Tong, Kowloon, Hong Kong 香港九龍觀塘偉業街 223 號宏利金融中心 A 座 7 樓 701-704A 及 708A&B 室
ACCREDITED TEST CATEGORY **認可測試類別**	:	Construction Materials 建築材料

HILTI (Hong Kong) Limited – Testing Laboratory
喜利得(香港)有限公司 – 試驗所

701-704A & 708A&B, 7/F, Tower A, Manulife Financial Centre, 223 Wai Yip Street, Kwun Tong, Kowloon, Hong Kong
香港九龍觀塘偉業街 223 號宏利金融中心 A 座 7 樓 701-704A 及 708A&B 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Structural fixings	Tensile proof load test of anchors and dowel bars by incremental loading in the force range 2 kN – 170 kN	BS 5080: Part 1: 1993 Cl. 6, 7.1.1 & 7.1.3 with modifications
	Tensile proof load test of drilled-in anchors used for cantilevered structure/hanger/curtain wall remedial works by incremental loading in the force range 2 kN – 170 kN	Buildings Department PNAP APP-169 (Oct 2023) App. A
	Tensile proof load test of drilled-in anchors used for works other than cantilevered structure/ hanger/curtain wall remedial works in the force range 1 kN – 170 kN	Buildings Department PNAP APP-169 (Oct 2023) App. B
	Tensile proof load test for cementitious or polymer based grouted bolts or dowels or reinforcing bars works in the force range 1 kN to 170 kN	Buildings Department PNAP APP-169 (Oct 2023) App. C

CTC Asia Limited

ADDRESS 地址	:	Rooms 1801-02 and 2010, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong 香港新界葵涌和宜合道 63 號麗晶中心 B 座 1801-02 及 2010 室
ENQUIRY 查詢	:	Mr Leo TOM, General Manager 湯傑輝先生
TELEPHONE 電話	:	3614 0328
FAX 傳真	:	3614 5702
E-MAIL 電郵	:	ctcasia@ctcgroupe.com
WEBSITE ADDRESS 網址	:	www.ctchongkong.com
CLIENTELE 服務對象	:	Public 公眾

CTC Asia Limited

ADDRESS **地址**	:	Rooms 1801-02 and 2010, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong 香港新界葵涌和宜合道 63 號麗晶中心 B 座 1801-02 及 2010 室
ACCREDITED TEST CATEGORIES **認可測試類別**	:	Textiles and Garments 紡織品及成衣

CTC Asia Limited

Rooms 1801-02 and 2010, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 1801-02 及 2010 室

Textiles and Garments 紡織品及成衣		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**C SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
General Textiles and Garments :-		
	Chemical analysis :-	
- General textiles and garments	- Formaldehyde (water extraction method)	BS EN ISO 14184-1: 2011 EN ISO 14184-1: 2011 ISO 14184-1: 2011
	- pH value	BS EN ISO 3071: 2020 EN ISO 3071: 2020 ISO 3071: 2020
	Performance tests :-	
- General textiles and garments	- Abrasion resistance	
	a) Martindale tester	ASTM D4966-98 (Reapproved 2007)e1 BS EN ISO 12947-2 to 4: 1999 EN ISO 12947-2 to 4: 1998 ISO 12947-2 to 4: 1998 **< *Excluding the following* >** for the above three standards Annex A.1 JIS L 1096: 1999 Cl. 8.17.5 AS 2001.2.25-1990 BS 5690: 1991
	b) Taber tester	ASTM D3884-22 ASTM D3884-01 (Reapproved 2007) ASTM D3389-21 ASTM D3389-05 JIS L 1096-1999 Cl. 8.17.3 method C JIS L 1018-1990 Cl. 6.18.3 method C

CTC Asia Limited

Rooms 1801-02 and 2010, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 1801-02 及 2010 室

Textiles and Garments 紡織品及成衣		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**C SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Other Materials :-		
	Chemical analysis :-	
- Leather	- Chromium (VI)	BS EN ISO 17075-1: 2017 EN ISO 17075-1: 2017 ISO 17075-1: 2017 IULTCS/IUC 18-1: 2017
	- Formaldehyde	BS EN ISO 17226-2: 2019 EN ISO 17226-2: 2019 ISO 17226-2: 2018 IULTCS/IUC 19-2: 2018
	- pH value	BS EN ISO 4045: 2018 EN ISO 4045: 2018 ISO 4045: 2018 IULTCS/IUC 11: 2018

CTC Asia Limited

Rooms 1801-02 and 2010, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 1801-02 及 2010 室

Textiles and Garments 紡織品及成衣		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**C SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Other Materials :- (cont'd)		
	Colour fastness tests :-	
- Leather	- To-and-fro rubbing	ISO 11640: 2018 IULTCS/IUF 450: 2018 < ***Excluding the following*** > for the above two standards Cl. 7.3 Wet leather test
	Performance tests :-	
- Leather	- Water vapour absorption	BS EN ISO 17229: 2016 EN ISO 17229: 2016 ISO 17229: 2016 IULTCS/IUP 42: 2016
	- Water vapour permeability	EN ISO 14268: 2012 NF EN ISO 14268: 2012 ISO 14268: 2012 IULTCS/IUP 15: 2012
	Strength tests :-	
- Leather	- Tearing resistance	
	a) single edge tear	ISO 3377-1: 2011 IULTCS/IUP 40-1: 2011 In-house CTC Method AP009-a
	b) double edge tear	ISO 3377-2: 2016 IUTCS/IUP 8: 2016 In-house CTC Method AP014-a
	- Tensile strength and elongation	ISO 3376: 2011 IULTCS/IUP 6: 2011 In-house CTC Method AP007-a
	Performance tests :-	
- Rubber, vulcanized or thermoplastic used in footwear	- Abrasion resistance	ISO 4649: 2017 (Method A)

CTC Asia Limited

Rooms 1801-02 and 2010, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 1801-02 及 2010 室

Textiles and Garments 紡織品及成衣		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**C SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Specific Products :-		
	Construction tests :-	
- Children's clothing	- Measurement cords and drawstrings	BS EN 14682: 2007 EN 14682: 2007 ASTM F1816-97 (Reapproved 2004)
	Colour fastness tests :-	
- Footwear	- Rubbing	NF G 62-005: 1983 NF EN ISO 17700: 2019 (Method A) EN ISO 17700: 2019 (Method A) ISO 17700: 2019 (Method A) In-house CTC Method AP002-a
	Construction tests :-	
- Footwear	- Labeling	French Decree 96-477 (30 May 1996)
	Performance tests :-	
- Footwear	- Abrasion resistance (Martindale)	BS EN 13520: 2002 EN 13520: 2002 + A1: 2004 ISO 17704: 2004 In-house CTC Method AP021-a
	- Abrasion resistance of outsole	EN 12770: 1999 NF EN 12770: 2000 ISO 20871: 2018 In-house CTC Method AP001-a
	- Water vapour permeability and water vapour absorption	BS EN 13515: 2002 EN 13515: 2001 ISO 17699: 2003
	Strength tests :-	
- Footwear	- Upper sole adhesion / upper sole bond strength	ISO 17708: 2018 NF G 62-014: 1984 In-house CTC Method AP003-a BS 5131-5.4: 1978 with Amd. 1

CTC Asia Limited

Rooms 1801-02 and 2010, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 1801-02 及 2010 室

Textiles and Garments 紡織品及成衣		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**C SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Specific Products :- (cont'd)		
	Performance tests :- (cont'd)	
- Protective clothing	- Puncture resistance	BS EN 863: 1996 EN 863: 1995 ISO 13996: 1999 ASTM F1342-05
	- Chemicals resistance	BS EN ISO 6529: 2001 with Corr. 1 & 2 Method A EN ISO 6529: 2001 Method A ISO 6529: 2001 Method A
	- Determination of resistance to cutting by sharp objects	BS EN ISO 13997: 1999 EN ISO 13997: 1999 ISO 13997: 1999 ***<Excluding of the following>*** for the above three standards Cl. 5.1 ANSI/ISEA 105-2016 Cl. 5.1.1 and Appendix A using test method of ASTM F2992/F2992M-15 ***<Excluding of the following>*** Cl. 8.1, 8.2, 8.3 and 8.4
	Flammability tests :-	
- Protective clothing	- Contact heat	BS EN 702: 1995 EN 702: 1994 ISO 12127-1: 2015
	- Convective heat	BS EN 367: 1992 + A1: 1993 EN 367: 1992 ISO 9151: 2016 BS EN 531: 1995 + A1: 1999 Cl. 6.3 EN 531: 1995 + A1: 1999 Cl. 6.3 BS EN ISO 11612: 2008 Cl. 7.2 EN ISO 11612: 2008 Cl. 7.2 ISO 11612: 2008 Cl. 7.2

CTC Asia Limited

Rooms 1801-02 and 2010, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 1801-02 及 2010 室

Textiles and Garments 紡織品及成衣		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**C SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Specific Products :- (cont'd)		
	Flammability tests :- (cont'd)	
- Protective clothing	- Burning behaviour	BS EN ISO 15025: 2016 EN ISO 15025: 2016 ISO 15025: 2016 BS EN ISO 11612: 2008 Cl. 6.3 EN ISO 11612: 2008 Cl. 6.3 ISO 11612: 2008 Cl. 6.3 BS EN ISO 14116: 2008 Cl. 6.1 EN ISO 14116: 2008 Cl. 6.1 ISO 14116: 2008 Cl. 6.1
- Protective clothing for firefighters	- Convective heat	BS EN 13911: 2004 Cl. 6.1.3 EN 13911: 2004 Cl. 6.1.3 BS EN 469: 2005 Cl. 6.2 EN 469: 2005 + A1: 2006 Cl. 6.2
	- Burning behaviour	BS EN 469: 2005 Cl. 6.1 EN 469: 2005 + A1: 2007 Cl. 6.1 BS EN 13911: 2004 Cl. 6.1.2 EN 13911: 2004 Cl. 6.1.2
- Protective clothing for use in welding and allied processes	- Burning behaviour	BS EN ISO 11611: 2007 Cl. 6.7 EN ISO 11611: 2007 Cl. 6.7 ISO 11611: 2007 Cl. 6.7
	Chemical analysis :-	
- Protective gloves	- pH	BS EN ISO 21420: 2020 Cl. 4.2 (c) EN ISO 21420: 2020 Cl. 4.2 (c) ISO 21420: 2020 Cl. 4.2 (c)
	- Chromium (VI)	BS EN ISO 21420: 2020 Cl. 4.2 (a) EN ISO 21420: 2020 Cl. 4.2 (a) ISO 21420: 2020 Cl. 4.2 (a)
	Performance tests :-	
- Protective gloves	- Chemicals resistance	BS EN 16523-1: 2015 + A1: 2018 EN 16523-1: 2015 + A1: 2018
	- Determination of resistance to permeation 抗滲透性能	GB 28881-2012 cl. 4.3.2 and 5.4 using test method of GB/T 23462-2009 cl. 6.4

CTC Asia Limited

Rooms 1801-02 and 2010, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 1801-02 及 2010 室

Textiles and Garments 紡織品及成衣		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**C SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Specific Products :- (cont'd)		
	Performance tests :- (cont'd)	
- Protective gloves	- General requirements (sizing, dexterity, water vapour transmission and water vapour absorption)	BS EN ISO 21420: 2020 Cl. 6.1, 6.2, 6.3 and 6.4 EN ISO 21420: 2020 Cl. 6.1, 6.2, 6.3 and 6.4 ISO 21420: 2020 Cl. 6.1, 6.2, 6.3 and 6.4 ***<Excluding of the following>*** for the above three standards Cl. 6.3.2
	- Mechanical risks	BS EN 388: 2016 + A1: 2018 EN 388: 2016 + A1: 2018
	- Impact attenuation 防沖擊性	BS EN 13594: 2015 Cl. 6.9 EN 13594: 2015 Cl. 6.9 GB 24541-2022 cl. 4.2 using test method of cl. 6.6
	- Impact resistance	ANSI/ISEA 138:2019
	- Electrostatic properties	BS EN ISO 21420: 2020 Cl. 4.4.1 EN ISO 21420: 2020 Cl. 4.4.1 ISO 21420: 2020 Cl. 4.4.1 BS EN 16350: 2014 EN 16350: 2014
	- Determination of resistance to penetration	BS EN ISO 374-2:2019 EN ISO 374-2:2019 ISO 374-2: 2019 ASTM D5151-06
	- Determination of resistance to degradation by chemicals	BS EN ISO 374-4: 2019 EN ISO 374-4: 2019 ISO 374-4: 2019 ANSI/ISEA 105-2016 CL. 5.2.2 using test method of ANSI/ISEA 105-2016 Appendix B

CTC Asia Limited

Rooms 1801-02 and 2010, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 1801-02 及 2010 室

Textiles and Garments 紡織品及成衣		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**C SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Specific Products :- (cont'd)		
	Flammability tests :-	
- Protective gloves	- Contact heat	BS EN 407: 2020 Cl. 6.3 EN 407: 2020 Cl. 6.3
	- Convective heat	BS EN 407: 2020 Cl. 6.4 EN 407: 2020 Cl. 6.4
	- Limited flame spread	BS EN 407: 2020 Cl. 6.2 EN 407: 2020 Cl. 6.2
	Strength tests :-	
- Protective gloves	- Tear resistance	NF EN 407: 2020 Cl. 6.8 BS EN 407: 2020 Cl. 6.8 EN 407: 2020 Cl. 6.8

CTC Asia Limited

Rooms 1801-02 and 2010, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 1801-02 及 2010 室

Textiles and Garments 紡織品及成衣		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**C SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Specific Products :- (cont'd)		
	Construction tests :-	
- Protective gloves for firefighters	- Sizes	BS EN 659: 2003 + A1: 2008 Cl. 3.2 EN 659: 2003 + A1: 2008 Cl. 3.2
	Performance tests :-	
- Protective gloves for firefighters	- Dexterity	BS EN 659: 2003 + A1: 2008 Cl. 3.13 EN 659: 2003 + A1: 2008 Cl. 3.13 ISO 15383: 2001 Cl. 6.5.1
	- Time for removal of gloves	BS EN 659: 2003 + A1: 2008 Cl. 3.15 EN 659: 2003 + A1: 2008 Cl. 3.15
	- Whole glove integrity test	BS EN 659: 2003 + A1: 2008 Cl. 3.17 EN 659: 2003 + A1: 2008 Cl. 3.17 ISO 15383: 2001 Annex A
	Flammability tests :-	
- Protective gloves for firefighters	- Contact heat	BS EN 659: 2003 + A1: 2008 Cl. 3.10 EN 659: 2003 + A1: 2008 Cl. 3.10
	- Convective heat	BS EN 659: 2003 + A1: 2008 Cl. 3.8 EN 659: 2003 + A1: 2008 Cl. 3.8
	- Burning behaviour	BS EN 659: 2003 + A1: 2008 Cl. 3.7 EN 659: 2003 + A1: 2008 Cl. 3.7
	Strength tests :-	
- Protective gloves for firefighters	- Abrasion resistance	BS EN 659: 2003 + A1: 2008 Cl. 3.3 EN 659: 2003 + A1: 2008 Cl. 3.3
	- Tear resistance	BS EN 659: 2003 + A1: 2008 Cl. 3.5 EN 659: 2003 + A1: 2008 Cl. 3.5 ISO 15383: 2001Cl. 6.3.3
	- Cut resistance	BS EN 659: 2003 + A1: 2008 Cl. 3.4 EN 659: 2003 + A1: 2008 Cl. 3.4
	- Puncture resistance	BS EN 659: 2003 + A1: 2008 Cl. 3.6 EN 659: 2003 + A1: 2008 Cl. 3.6 ISO 15383: 2001 Cl. 6.3.4

CTC Asia Limited

Rooms 1801-02 and 2010, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 1801-02 及 2010 室

Textiles and Garments 紡織品及成衣		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**C SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Specific Products :- (cont'd)		
	Performance tests :-	
- Protective gloves for welders	- Sizes	BS EN 12477:2001 Cl. 3.2 EN 12477:2001 + A1: 2005 Cl. 3.2
	- Dexterity	BS EN 12477:2001 Cl. 5.9 EN 12477:2001 + A1: 2005 Cl. 5.9
	Flammability tests :-	
- Protective gloves for welders	- Contact heat	BS EN 12477: 2001 Cl. 5.6 EN 12477: 2001 + A1: 2005 Cl. 5.6
	- Convective heat	BS EN 12477: 2001 Cl. 5.7 EN 12477: 2001 + A1: 2005 Cl. 5.7
	- Burning behaviour	BS EN 12477: 2001 Cl. 5.5 EN 12477: 2001 + A1: 2005 Cl. 5.5
	Strength tests :-	
- Protective gloves for welders	- Abrasion resistance	BS EN 12477:2001 Cl. 5.1 EN 12477:2001 + A1: 2005 Cl. 5.1
	- Tear resistance	BS EN 12477:2001 Cl. 5.3 EN 12477:2001 + A1: 2005 Cl. 5.3
	- Cut resistance	BS EN 12477:2001 Cl. 5.2 EN 12477:2001 + A1: 2005 Cl. 5.2
	- Puncture resistance	BS EN 12477:2001 Cl. 5.4 EN 12477:2001 + A1: 2005 Cl. 5.4

API Lab Testing Limited
法亞太產品測試有限公司

ADDRESS 地址	:	Unit F and G, 22/F, Golden Bear Industrial Centre, 66-82 Chai Wan Kok Street, Tsuen Wan, New Territories, Hong Kong 香港新界荃灣柴灣角街 66-82 號金熊工業中心 22 樓 F 及 G 室
ENQUIRY 查詢	:	Mr Raymond YEUNG Hung-to, General Manager 楊鴻韜先生，總經理
TELEPHONE 電話	:	2611 5627
FAX 傳真	:	--
E-MAIL 電郵	:	raymond.yeung@api-hk.com
WEBSITE ADDRESS 網址	:	--
CLIENTELE 服務對象	:	Public 公眾

API Lab Testing Limited
法亞太產品測試有限公司

ADDRESS **地址**	:	Unit F and G, 22/F, Golden Bear Industrial Centre, 66-82 Chai Wan Kok Street, Tsuen Wan, New Territories, Hong Kong 香港新界荃灣柴灣角街 66-82 號金熊工業中心 22 樓 F 及 G 室
ACCREDITED TEST CATEGORY **認可測試類別**	:	Food 食品 Physical and Mechanical Testing 物理及機械測試 Toys and Children's Products 玩具及兒童產品

API Lab Testing Limited
法亞太產品測試有限公司

Unit F and G, 22/F, Golden Bear Industrial Centre, 66-82 Chai Wan Kok Street, Tsuen Wan, New Territories, Hong Kong
香港新界荃灣柴灣角街 66-82 號金熊工業中心 22 樓 F 及 G 室

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Food containers (ceramic ware)	Toxicological test :- - Leachable lead and cadmium	Council Directive 84/500/EEC Annex I and II with amendment Commission Directive 2005/31/EC

API Lab Testing Limited
法亞太產品測試有限公司

Unit F and G, 22/F, Golden Bear Industrial Centre, 66-82 Chai Wan Kok Street, Tsuen Wan, New Territories, Hong Kong
香港新界荃灣柴灣角街 66-82 號金熊工業中心 22 樓 F 及 G 室

Physical and Mechanical Testing 物理及機械測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Safety and performance tests :-	
Furniture		
- Chairs or seating		
- Domestic seating ***<Excluding the following>*** - tilting chairs - rocking chairs - reclining chairs	- Strength, durability and safety requirements	EN 12520: 2015
	- Stability tests	EN 1022: 2018 ***<Excluding the following>*** Cl. 7.4.1, 7.4.2, 7.4.3, 7.4.4, 7.4.5 and 8
- Outdoor single-seat seating for domestic use	- General safety requirements	BS EN 581-1: 2006 BS EN 581-1: 2017
	- Mechanical safety tests	BS EN 581-2: 2015 ***<Excluding the following>*** Cl. 6 and 7.2 (durability tests on seating with a multi-position back rest, seating with variable geometry)
- Tables		
- Domestic tables ***<Excluding the following>*** - tables with glass in their construction	- Strength, durability and safety requirements	EN 12521: 2015 ***<Excluding the following>*** Cl. 6.1 (vertical impact for tables with glass in their construction) and Annex A
- Outdoor tables	- General safety requirements	BS EN 581-1: 2006 BS EN 581-1: 2017
	- Mechanical safety tests	BS EN 581-3: 2017 ***<Excluding the following>*** Cl. 5.1 (Tests for glass table tops)

API Lab Testing Limited
法亞太產品測試有限公司

Unit F and G, 22/F, Golden Bear Industrial Centre, 66-82 Chai Wan Kok Street, Tsuen Wan, New Territories, Hong Kong
香港新界荃灣柴灣角街 66-82 號金熊工業中心 22 樓 F 及 G 室

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Chemical test :-	
Toys – paint and similar surface-coating materials	- Total lead content	ASTM F963-17 Cl. 4.3.5.1 (1) ASTM F963-23 Cl. 4.3.5.1 (1) *Test procedures for compliance testing:-* CPSC Test method: CPSC-CH-E1003-09.1 Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings, February 25, 2011 (by microwave digestion only)
	- Migration of the elements Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	ASTM F963-17 Cl. 4.3.5.1 (2) *Test procedures for compliance testing:-* ASTM F963-17 Cl. 8.3.2 - 8.3.4 ASTM F963-23 Cl. 4.3.5.1 (2) *Test procedures for compliance testing:-* ASTM F963-23 Cl. 8.3.2 - 8.3.4
Toys – substrate materials (plastic, polymers and other non-siliceous materials only)	- Total lead content	ASTM F963-17 Cl. 4.3.5.2 (2) (a) *Test procedures for compliance testing:-* CPSC Test Method: CPSC-CH-E1002-08.1 Standard Operating Procedure for Determining Total Lead (Pb) in Non-Metal Children's Products , June 21, 2010 ASTM F963-23 Cl. 4.3.5.2 (2) (a) *Test procedures for compliance testing:-* CPSC Test Method: CPSC-CH-E1002-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Non-Metal Children's Products , November 15, 2012 ***<Excluding the following>*** XRF Spectrometry
Toys – substrate materials	- Migration of the elements Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	ASTM F963-17 Cl. 4.3.5.2 (2) (b) *Test procedures for compliance testing:-* ASTM F963-17 Cl. 8.3.5
Toys – substrate materials (excluding modelling clay)	- Migration of the elements Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	ASTM F963-23 Cl. 4.3.5.2 (2) (b) *Test procedures for compliance testing:-* ASTM F963-23 Cl. 8.3.5

API Lab Testing Limited
法亞太產品測試有限公司

Unit F and G, 22/F, Golden Bear Industrial Centre, 66-82 Chai Wan Kok Street, Tsuen Wan, New Territories, Hong Kong
香港新界荃灣柴灣角街 66-82 號金熊工業中心 22 樓 F 及 G 室

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Chemical test (cont'd):-	
Toys and other articles intended for use by children – paint and other similar surface-coating materials	- Total lead content	US Public Law 110-314 Consumer Product Safety Improvement Act 2008 US 16 CFR Part 1303 *Test procedures for compliance testing:-* CPSC Test method: CPSC-CH-E1003-09.1 Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings, February 25, 2011 (by microwave digestion only)
Children's non-metal products (plastic, polymers and other non-siliceous materials only)	- Total lead content	*Test Procedures for Compliance testing:-* CPSC Test Method: CPSC-CH-E1002-08.1 Standard Operating Procedure for Determining Total Lead (Pb) in Non-Metal Children's Products , June 21, 2010
Children's metal products	- Total lead content	US Public Law 110-314 Consumer Product Safety Improvement Act 2008 *Test Procedures for Compliance testing:-* CPSC Test Method: CPSC-CH-E1001-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Children's Metal Products (Including Children's Metal Jewelry), November 15, 2012 ***<Excluding the following>*** XRF spectrometry
All toys - Category III toy materials: scraped-off materials	- Migration of certain elements Aluminum, Antimony, Arsenic, Barium, Boron, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Mercury, Nickel, Selenium, Strontium, Tin and Zinc	EN71-3: 2013 + A1: 2014 Technique used: ICP-OES

API Lab Testing Limited
法亞太產品測試有限公司

Unit F and G, 22/F, Golden Bear Industrial Centre, 66-82 Chai Wan Kok Street, Tsuen Wan, New Territories, Hong Kong
香港新界荃灣柴灣角街 66-82 號金熊工業中心 22 樓 F 及 G 室

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical test (cont'd):-	
All toys	- Migration of certain elements	EN71-3: 2019 + A1: 2021
- Category III toy materials: scraped-off materials	Aluminum, Antimony, Arsenic, Barium, Boron, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Mercury, Nickel, Selenium, Strontium, Tin and Zinc	Technique used: ICP-OES
	Chromium (VI) and Chromium (III) (by calculation)	Annex F (IC-ICP-MS)
	Organic Tin: Methyl tin, Dimethyltin, Butyltin, Dibutyl tin, Tributyl tin, Tetrabutyltin n-Octy tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin, Triphenyl tin	Annex G (GC-MS)
All toys	- Migration of elements Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	AS/NZS ISO 8124.3: 2003
All toys ***<Excluding the following>*** Finger paints	- Migration of elements Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	AS/NZS ISO 8124.3: 2012 ISO 8124.3: 2020 (For dewaxing: Method A) AS/NZS ISO 8124.3: 2021 (For dewaxing: Method A)
Toys and childcare articles	- Dibutyl Phthalate (DBP) - Di-(2ethylhexyl) phthalate (DEHP) - Benzyl Butyl Phthalate (BBP) - Diisobutyl phthalate (DIBP) - Di-n-pentyl phthalate (DPENP) - Di-n-hexyl phthalate (DHEXP) - Dicyclohexyl phthalate (DCHP) - Diisononyl phthalate (DINP)	US 16 CFR Part 1307.3 *Test Procedures for Compliance testing:-* CPSC Test Method: CPSC-CH-C1001-09.4 Standard Operating Procedure for Determination of Phthalates, January 17, 2018

API Lab Testing Limited
法亞太產品測試有限公司

Unit F and G, 22/F, Golden Bear Industrial Centre, 66-82 Chai Wan Kok Street, Tsuen Wan, New Territories, Hong Kong
香港新界荃灣柴灣角街 66-82 號金熊工業中心 22 樓 F 及 G 室

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Electrical tests :-	
Battery operated toys	- Battery operated toy safety tests	ASTM F963-17 Section 4.25 ***<Excluding the following>*** Section 4.25.8.1, 4.25.10, 4.25.11 ASTM F963-23 Section 4.25 ***<Excluding the following>*** Section 4.25.7.1, 4.25.9, 4.25.10
Electric toys	- Compliance inspection and safety tests	EN IEC 62115: 2020 + A11: 2020 ***<Excluding the following>*** Cl. 5.1 (dynamic strength test toy and static strength test), 9.1 (protective electronic circuit), 11 (IP test to IEC 60529), 13.8, 13.10, 18 (burning tests to IEC 60695-11-10 and ISO 9772, glow-wire ignition temperature tests to IEC 60695-2-13), 19, Annexes C, D, E, I and J

API Lab Testing Limited
法亞太產品測試有限公司

Unit F and G, 22/F, Golden Bear Industrial Centre, 66-82 Chai Wan Kok Street, Tsuen Wan, New Territories, Hong Kong
香港新界荃灣柴灣角街 66-82 號金熊工業中心 22 樓 F 及 G 室

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Toys	Flammability test	ASTM F963-17 Section 4.2 ASTM F963-23 Section 4.2 EN 71-2: 2011 + A1: 2014 ***<Excluding the following>*** Tests for cellulose nitrate, flammable gas, flammable gel, extremely flammable liquid, highly flammable liquid and flammable liquid EN 71-2: 2020 ***<Excluding the following>*** Tests for cellulose nitrate, flammable gas, flammable gel, extremely flammable liquid, highly flammable liquid and flammable liquid AS/NZS ISO 8124.2: 2016 ISO 8124-2: 2014 ***<Excluding the following>*** for the above two standards Tests for cellulose nitrate, flammable gas, flammable gel, highly flammable liquid and flammable liquid
Textile fabrics used in toys		16 CFR Part 1610

API Lab Testing Limited
法亞太產品測試有限公司

Unit F and G, 22/F, Golden Bear Industrial Centre, 66-82 Chai Wan Kok Street, Tsuen Wan, New Territories, Hong Kong
香港新界荃灣柴灣角街 66-82 號金熊工業中心 22 樓 F 及 G 室

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Physical and mechanical tests :-	
Toys		ASTM F963-17 ASTM F963-23
	- Safety Requirements:	Section 4.1, 4.6, 4.7, 4.8, 4.9, 4.10, 4.11, 4.12, 4.13, 4.14, 4.15, 4.16, 4.17, 4.18, 4.19, 4.20, 4.21, 4.22, 4.23, 4.24, 4.26, 4.27, 4.28, 4.30, 4.31, 4.32, 4.33, 4.34, 4.35, 4.36, 4.38, 4.39 and 4.41 ***<Excluding the following>*** for the above two standards Section 4.1 (reprocessed material to 4.3.1), 4.6.2, 4.8.1 and 4.20.1
	- Safety labeling requirements	Section 5
	- Instructional literature	Section 6
	- Producer's markings	Section 7
	- Test Methods	Section 8
Toys ***<Excluding the following>*** - toys intended to bear the mass of more than one child at a time		EN 71-1: 2014 + A1: 2018
	- General requirements:	Cl. 4.1, 4.2, 4.3, 4.4, 4.5, 4.6, 4.7, 4.8, 4.9, 4.10, 4.12, 4.13, 4.14, 4.15.3, 4.15.4, 4.16, 4.17, 4.18, 4.22, 4.23, 4.24, 4.25 and 4.27 ***<Excluding the following>*** Cl. 4.18 (Tests to EN 15649-3)
	- Toys intended for children under 36 months:	Cl. 5.1, 5.2, 5.3, 5.4, 5.5, 5.7, 5.8, 5.9, 5.10, 5.11, 5.12, 5.13, 5.14 and 5.15
	- Packaging	Cl. 6
	- Warnings, markings and instruction for use	Cl. 7
	- Test methods	Cl. 8
Toys	- General requirements	AS/NZS ISO 8124.1: 2019 + Amd. 1: 2020 + Amd. 2: 2020 ISO 8124-1: 2018 + Amd.1: 2020 + Amd.2: 2020 Cl. 4.1, 4.2, 4.3, 4.4, 4.5, 4.6, 4.7, 4.8, 4.9, 4.10, 4.11 4.12, 4.13, 4.14, 4.15, 4.16, 4.17, 4.18, 4.19, 4.20, 4.25, 4.26, 4.31, 4.32, 4.33, 4.34, 4.35 and 4.36 ***<Excluding the following>*** for the above two standards Cl. 4.3.2, 4.8.2, 4.15.1, 4.15.2, 4.18.4.1, 4.26c
	- Test methods	Cl. 5
Toys and other articles intended for use by children under 3 years of age	- Method for identifying choking, aspiration, or ingestion hazards because of small parts	16 CFR 1501 in conjunction with test methods specified in 16 CFR 1500.51 or 16 CFR 1500.52 [excluding bite test to 1500.51(c) or 1500.52 (c)]

Far East Technical Services Limited

ADDRESS 地址	:	Room F, 14/F, Selwyn Factory Building, 404 Kwun Tong Road, Kwun Tong, Kowloon, Hong Kong 香港九龍觀塘觀塘道 404 號時運工業大廈 14 樓 F 室
ENQUIRY 查詢	:	Mr Cedric CHOW Shek-chung, Director 周錫聰先生，董事
TELEPHONE 電話	:	2575 7777, 2575 7557
FAX 傳真	:	2591 6608
E-MAIL 電郵	:	info@far-east.hk
CLIENTELE 服務對象	:	Public 公眾

Far East Technical Services Limited

ADDRESS **地址**	:	Room F, 14/F, Selwyn Factory Building, 404 Kwun Tong Road, Kwun Tong, Kowloon, Hong Kong 香港九龍觀塘觀塘道 404 號時運工業大廈 14 樓 F 室
ACCREDITED TEST CATEGORY **認可測試類別**	:	Construction Materials 建築材料

Far East Technical Services Limited

Room F, 14/F, Selwyn Factory Building, 404 Kwun Tong Road, Kwun Tong, Kowloon, Hong Kong
香港九龍觀塘觀塘道 404 號時運工業大廈 14 樓 F 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Metallic materials (non-destructive)	Ultrasonic thickness measurement	BS EN 14127: 2011
Structural fixings	Tensile proof load test of anchors by incremental loading in the force range 1 kN – 120 kN	BS 5080 Part 1: 1993, Cl. 6, 7.1.1 & 7.1.3 with modifications
	Tensile proof load test of drilled-in anchors used for cantilevered structure/hanger/curtain wall remedial works by incremental loading in the force range 5 kN – 50 kN	Buildings Department PNAP APP-169 (Oct 2023) App. A
	Tensile proof load test of drilled-in anchors used for works other than cantilevered structure/ hanger/ curtain wall remedial works in the force range 1 kN – 50 kN	Buildings Department PNAP APP-169 (Oct 2023) App. B
	Tensile proof load test for cementitious or polymer based grouted bolts or dowels or reinforcing bars works or/and steel T-bolts with cast-in channels in the force range 1 kN – 300 kN	Buildings Department PNAP APP-169 (Oct 2023) App. C

Far East Technical Services Limited

Room F, 14/F, Selwyn Factory Building, 404 Kwun Tong Road, Kwun Tong, Kowloon, Hong Kong
香港九龍觀塘觀塘道 404 號時運工業大廈 14 樓 F 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Welds (non-destructive)	Liquid penetrant test (Colour contrast method)	BS EN 571-1 : 1997 BS EN ISO 3452-1 : 2013 BS EN ISO 3452-1 : 2021 in conjunction with the following specification(s): BS 4515-1: 2009 Table 9 BS EN ISO 5817: 2014 Table 1 Buildings Department Code of Practice for Structural Use of Steel (2011) Table 14.3b
	Magnetic particle test (Magnetic flow method, colour contrast method using permanent magnets, A.C. & D.C. yokes)	BS 6072: 1981 (1986) BS EN 1290: 1998 BS EN ISO 9934-1: 2015 BS EN ISO 17638: 2009 BS EN ISO 17638: 2016 in conjunction with the following specification(s): BS 4515-1: 2009 Table 9 BS EN ISO 5817: 2014 Table 1 Buildings Department Code of Practice for Structural Use of Steel (2011) Table 14.3b
	Ultrasonic test (Butt welds in plates and pipes, 'T' joint welds, nozzle welds and node welds)	BS 3923: Part 1: 1986 (Level 1, 2A, 2B & 3) BS EN 1714: 1998 (Level A, B, & C) BS EN ISO 17640: 2010 (Level A, B, & C) BS EN ISO 17640: 2018 (Level A, B, & C) in conjunction with the following specification(s): BS 4515-1: 2009 Table 9 BS EN ISO 5817: 2014 Table 1 Buildings Department Code of Practice for Structural Use of Steel (2011) Table 14.3b
	Visual examination	BS 5289: 1976 (1983) BS EN 970: 1997 BS EN ISO 17637: 2011 BS EN ISO 17637: 2016 in conjunction with the following specification(s): BS 4515-1: 2009 Table 9 BS EN ISO 5817: 2014 Table 1 Buildings Department Code of Practice for Structural Use of Steel (2011) Table 14.3b

MaxLab Calibration Centre Limited – Calibration Laboratory
萬儀校正中心有限公司 – 校正實驗室

ADDRESS 地址	:	Unit B, 9/F, Boldwin Industrial Building, 16-18 Wah Sing Street, Kwai Chung, Hong Kong. 香港葵涌華星街16-18號保盈工業大廈9樓B室
ENQUIRY 查詢	:	Ms Anita SHUM, Customer Service Officer 岑嘉韻小姐，客戶服務主任
TELEPHONE 電話	:	2116 1380
FAX 傳真	:	2264 6480
E-MAIL 電郵	:	info@maxlab.com.hk
WEBSITE ADDRESS 網址	:	http://www.maxlab.com.hk
CLIENTELE 服務對象	:	Public 公眾

MaxLab Calibration Centre Limited – Calibration Laboratory
萬儀校正中心有限公司 – 校正實驗室

ADDRESS **地址**	:	Unit B, 9/F, Boldwin Industrial Building, 16-18 Wah Sing Street, Kwai Chung, Hong Kong. 香港葵涌華星街 16-18 號保盈工業大廈 9 樓 B 室
ACCREDITED TEST CATEGORY **認可測試類別**	:	Calibration Services 校正服務

MaxLab Calibration Centre Limited – Calibration Laboratory
萬儀校正中心有限公司 – 校正實驗室

Unit B, 9/F, Boldwin Industrial Building, 16-18 Wah Sing Street, Kwai Chung, Hong Kong
香港葵涌華星街 16-18 號保盈工業大廈 9 樓 B 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurement		
- Direct current and low frequency measurement		
- AC ammeter	Calibration for AC current in accordance with in-house procedure MLTP1 over the following ranges:	
	50 Hz	
	3 mA to 3.3 mA	4.1 μA to 4.5 μA
	above 3.3 mA to 33 mA	14 μA to 51 μA
	above 33 mA to 330 mA	0.13 mA to 0.67 mA
	above 330 mA to 2.2 A	0.82 mA to 2.8 mA
	above 2.2 A to 10 A	4.1 mA to 9.2 mA
- AC voltmeter	Calibration for AC voltage in accordance with in-house procedure MLTP1 over the following ranges:	
	50 Hz to 1 kHz	
	100 mV to 330 mV	0.083 mV to 0.21 mV
	above 330 mV to 3.3 V	0.35 mV to 1.2 mV
	above 3.3 V to 33 V	3.1 mV to 16 mV
	above 33 V to 330 V	0.038 V to 0.20 V
	above 330 V to 1000 V	0.29 V to 0.69 V

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

MaxLab Calibration Centre Limited – Calibration Laboratory
萬儀校正中心有限公司 – 校正實驗室

Unit B, 9/F, Boldwin Industrial Building, 16-18 Wah Sing Street, Kwai Chung, Hong Kong
香港葵涌華星街 16-18 號保盈工業大廈 9 樓 B 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurement (cont'd)		
- Direct current and low frequency measurement (cont'd)		
- DC ammeter	Calibration for DC current in accordance with in-house procedure MLTP1 over the following ranges:	
	1 mA to 3.3 mA	0.22 μA to 0.56 μA
	above 3.3 mA to 33 mA	0.89 μA to 4.1 μA
	above 33 mA to 330 mA	0.010 mA to 0.043 mA
	above 330 mA to 2.2 A	0.26 mA to 0.83 mA
	above 2.2 A to 10 A	1.9 mA to 7.2 mA
- DC voltmeter	Calibration for DC voltage in accordance with in-house procedure MLTP1 over the following ranges:	
	100 mV to 330 mV	0.016 mV to 0.029 mV
	above 330 mV to 3.3 V	0.045 mV to 0.20 mV
	above 3.3 mV to 33 V	0.51 mV to 2.0 mV
	above 33 V to 330 V	5.9 mV to 22 mV
	above 330 V to 1000 V	0.027 V to 0.068 V

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

MaxLab Calibration Centre Limited – Calibration Laboratory
萬儀校正中心有限公司 – 校正實驗室

Unit B, 9/F, Boldwin Industrial Building, 16-18 Wah Sing Street, Kwai Chung, Hong Kong
香港葵涌華星街 16-18 號保盈工業大廈 9 樓 B 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurement (cont'd)		
- Direct current and low frequency measurement (cont'd)		
- DC ohmmeter	Calibration for resistance in accordance with in-house procedure MLTP1 over the following ranges:	
	1 Ω to 11 Ω	11 mΩ to 12 mΩ
	above 11 Ω to 33 Ω	20 mΩ to 23 mΩ
	above 33 Ω to 110 Ω	22 mΩ to 29 mΩ
	above 110 Ω to 330 Ω	30 mΩ to 52 mΩ
	above 330 Ω to 1.1 kΩ	0.11 Ω to 0.18 Ω
	above 1.1 kΩ to 3.3 kΩ	0.20 Ω to 0.41 Ω
	above 3.3 kΩ to 11 kΩ	1.1 Ω to 1.8 Ω
	above 11 kΩ to 33 kΩ	2.2 Ω to 4.2 Ω
	above 33 kΩ to 110 kΩ	12 Ω to 21 Ω
	above 110 kΩ to 330 kΩ	30 Ω to 55 Ω
	above 330 kΩ to 1.1 MΩ	0.13 kΩ to 0.26 kΩ
	above 1.1 MΩ to 3.3 MΩ	0.25 kΩ to 0.62 kΩ
	above 3.3 MΩ to 10 MΩ	6.4 kΩ to 9.4 kΩ

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Excel Building Diagnostic & Inspection Services Limited
卓立檢測有限公司

ADDRESS 地址	:	Room 02 & 21, 2/F., Yale Industrial Centre, 61-63 Au Pui Wan Street, Fo Tan, Shatin, New Territories, Hong Kong 香港沙田火炭坳背灣街 61-63 號盈力工業中心 2 樓 02 及 21 室
ENQUIRY 查詢	:	Mr KWUNG Man-chiu, Quality Manager 龔文超先生，質檢經理
TELEPHONE 電話	:	2422 9123
FAX 傳真	:	2422 9163
E-MAIL 電郵	:	excel_bdis@yahoo.com.hk
CLIENTELE 服務對象	:	Public 公眾

Excel Building Diagnostic & Inspection Services Limited
卓立檢測有限公司

ADDRESS **地址**	:	Room 02 & 21, 2/F, Yale Industrial Centre, 61-63 Au Pui Wan Street, Fo Tan, Shatin, New Territories, Hong Kong 香港沙田火炭坳背灣街 61-63 號盈力工業中心 2 樓 02 及 21 室
ACCREDITED TEST CATEGORY **認可測試類別**	:	Construction Materials 建築材料

Excel Building Diagnostic & Inspection Services Limited
卓立檢測有限公司
Room 02 & 21, 2/F, Yale Industrial Centre, 61-63 Au Pui Wan Street, Fo Tan, Shatin, New Territories, Hong Kong
香港沙田火炭坳背灣街 61-63 號盈力工業中心 2 樓 02 及 21 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Adhesive	Pull-off test of adhesive	In-house method BD13
	Pull-off test of mortar	Hong Kong Housing Authority Materials Testing Services (2004/2006) for Maintenance and Building Materials Specification Part D Cl. 2.1.15
	Pull-off test of plaster	In-house method BD16 (by coring method)
	Pull-off test of render	In-house method BD17 (by coring method)
	Pull-off test of tiles	In-house method BD18 (by coring method) In-house method BD19 (by saw-cut method)
Coating	Pull-off test of adhesion	In-house method BD14
Concrete	Removal of concrete cover to expose reinforcement	Hong Kong Housing Authority Materials Testing Services (2004/2006) for Maintenance and Building Materials Specification Part D Cl. 4.2.1
	Reinforcement survey	Hong Kong Housing Authority Materials Testing Services (2004/2006) for Maintenance and Building Materials Specification Part D Cl. 4.3.13

Excel Building Diagnostic & Inspection Services Limited
卓立檢測有限公司
Room 02 & 21, 2/F, Yale Industrial Centre, 61-63 Au Pui Wan Street, Fo Tan, Shatin, New Territories, Hong Kong
香港沙田火炭坳背灣街 61-63 號盈力工業中心 2 樓 02 及 21 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Concrete (diagnostic)	Carbonation test	Building Research Establishment Information Paper IP 6/81 Hong Kong Housing Authority Materials Testing Services (2004/2006) for Maintenance and Building Materials Specification Part D Cl. 4.3.1 Method 1 & Method 2
	Covermeter survey	Hong Kong Housing Authority Materials Testing Services (2004/2006) for Maintenance and Building Materials Specification Part D Cl. 4.3.2 Method 1 & Method 2
	Half-cell potential measurement	ASTM C876-91 (Reapproved 1999)
	Resistivity measurement	BS 1881: Part 201: 1986 Cl. 2.3 Hong Kong Housing Authority Materials Testing Services (2004/2006) for Maintenance and Building Materials Specification Part D Cl. 4.3.6
	Surface hardness measurement	BS 1881: Part 202: 1986 BS EN 12504-2: 2012
	Ultrasonic pulse velocity measurement	BS 1881: Part 203: 1986 Cl. 6 (by direct transmission)
Metallic materials (non-destructive)	Ultrasonic test of H beams with parallel flanges (manual method)	BS EN 10306: 2002
	Ultrasonic test of metallic materials (Reflection method)	BS 5996: 1993 BS EN 10160: 1999

.vs.

Excel Building Diagnostic & Inspection Services Limited
卓立檢測有限公司
Room 02 & 21, 2/F, Yale Industrial Centre, 61-63 Au Pui Wan Street, Fo Tan, Shatin, New Territories, Hong Kong
香港沙田火炭坳背灣街 61-63 號盈力工業中心 2 樓 02 及 21 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Structural fixings	Tensile proof load test of anchors and dowel bars by incremental loading in the force range 1 kN – 500 kN	BS 5080: Part 1: 1993 Cl. 6, 7.1.1 & 7.1.3 with modifications
	Tensile proof load test of drilled-in anchors used for cantilevered structure/hanger/curtain wall remedial works by incremental loading in the force range 5 kN – 120 kN	Buildings Department PNAP APP-169 (Oct 2023) App. A
	Tensile proof load test of drilled-in anchors used for works other than cantilevered structure/ hanger/curtain wall remedial works in the force range 1 kN – 500 kN	Buildings Department PNAP APP-169 (Oct 2023) App. B
	Tensile proof load test for cementitious or polymer based grouted bolts or dowels or reinforcing bars works in the force range 1 kN – 500 kN	Buildings Department PNAP APP-169 (Oct 2023) App. C
Welds (non-destructive)	Liquid penetrant test (Colour contrast method, solvent removable)	BS EN ISO 3452-1: 2021 in conjunction with the following specification(s): BS EN ISO 5817: 2014 Table 1
	Magnetic particle test (Magnetic flow method, colour contrast method using permanent magnets)	BS EN 1290: 1998 + A1: 2002 + A2: 2003 BS EN ISO 17638: 2009 BS EN ISO 17638: 2016 in conjunction with the following specification(s): Buildings Department Code of Practice for the Structural Use of steel (2011) Table 14.3b
	Ultrasonic test (Butt welds in plates and pipes, ‘T’ joint welds and nozzle welds)	BS EN 1714: 1998 + Amd. 10286, 13990 & 14941 (Level A, B, & C) BS EN ISO 17640: 2010 (Level A, B, & C) BS EN ISO 17640: 2018 (Level A, B & C) in conjunction with the following specification(s): Buildings Department Code of Practice for the Structural Use of steel (2011) Table 14.3b
	Visual examination	BS EN 970: 1997 BS EN ISO 17637: 2011 BS EN ISO 17637: 2016 in conjunction with the following specification(s): Buildings Department Code of Practice for the Structural Use of steel (2011) Table 14.3b

Excel Building Diagnostic & Inspection Services Limited
卓立檢測有限公司

Summary of Voluntary Suspension

.vs. denotes test for which accreditation has been voluntarily suspended with effect from 20 January 2025 (Notification Letter No. HOKLAS167-39).

Fugro Technical Services (Guangzhou) Limited
廣州市輝固技術服務有限公司

ADDRESS 地址	:	No. 6, Nongye Gongsi Road, Caotang, Hualong, Panyu, Guangzhou, China 中國廣州市番禺區化龍鎮草堂村農業公司路 6 號
ENQUIRY 查詢	:	Mr Jimmy YAN Cai-sheng, Deputy General Manager 晏才聖先生，副總經理
TELEPHONE 電話	:	(020) 3482 8832 / (86) 13928817071
FAX 傳真	:	(020) 3482 8831
E-MAIL 電郵	:	ftsgz@fugro.com
WEBSITE ADDRESS 網址	:	www.fugro.com
CLIENTELE 服務對象	:	Public 公眾

Fugro Technical Services (Guangzhou) Limited
廣州市輝固技術服務有限公司

ADDRESS
地址

Main Laboratory	:	No. 6, Nongye Gongsi Road, Caotang, Hualong, Panyu, Guangzhou, China 中國廣州市番禺區化龍鎮草堂村農業公司路 6 號
Branch Laboratories	:	1/F, Block 2, No. 34, Nanguang Road, Nancun, Panyu, Guangzhou, China 中國廣州市番禺區南村鎮南光路 34 號 2 棟 1 樓
		No 8, Hougang Industrial Street, Shachong, Dalong, Panyu, Guangzhou, China 廣州市番禺區大龍街沙湧村後崗工業街 8 號
ACCREDITED TEST CATEGORY **認可測試類別**	:	Construction Materials 建築材料

Fugro Technical Services (Guangzhou) Limited
廣州市輝固技術服務有限公司
No. 6, Nongye Gongsi Road, Caotang, Hualong, Panyu, Guangzhou, China
中國廣州市番禺區化龍鎮草堂村農業公司路 6 號

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Adhesive	Pull-off test of tiles	In-house method P-T-001
Admixtures	Air content test	BS EN 12350-7: 2009 Cl. 5 (Pressure gauge method) in conjunction with the following specification: BS EN 934-2: 2009 + A1: 2012 Table 2(3), 3.1(3), 3.2(4), 4(3), 5(1), 6(3), 7(2), 8(3), 9(3), 10(4), 11.1(4), 11.2(3) & 12(4)
	Bleeding test	BS EN 480-4: 2005 in conjunction with the following specification: BS EN 934-2: 2009 + A1: 2012 Table 4(1)
	Capillary absorption	BS EN 480-5: 2005 in conjunction with the following specification: BS EN 934-2: 2009 + A1: 2012 Table 9(1)
	Compression strength	BS EN 12390-3: 2019 in conjunction with the following specification: BS EN 934-2: 2009 + A1: 2012 Table 2(No. 2), 3.1(2), 3.2(3), 4(2), 5(3), 6(2), 7(1), 8(2), 9(2), 10(1), 11.1(1), 11.2(2) & 12(1)
	Increase in consistence	BS EN 12350-2: 2009 & BS EN 480-1: 2014 BS EN 12350-5: 2009 & BS EN 480-1: 2014 in conjunction with the following specification: BS EN 934-2: 2009 + A1: 2012 Table 3.2(1)
	Retention of consistence	BS EN 12350-2: 2009 & BS EN 480-1: 2014 BS EN 12350-5: 2009 & BS EN 480-1: 2014 in conjunction with the following specification: BS EN 934-2: 2009 + A1: 2012 Table 3.2(2) & 11.2(1)
	Setting time	BS EN 480-2: 2006 in conjunction with the following specification: BS EN 934-2: 2009 + A1: 2012 Table 6(1), 8(1), 10(2), 11.1(2) & 12(2)
	Water reduction	BS EN 12350-2: 2009 & BS EN 480-1: 2014 BS EN 12350-5: 2009 & BS EN 480-1: 2014 in conjunction with the following specification: BS EN 934-2: 2009 + A1: 2012 Table 2(1), 3.1(1), 10(3), 11.1(3) & 12(3)

Fugro Technical Services (Guangzhou) Limited
廣州市輝固技術服務有限公司
No. 6, Nongye Gongsi Road, Caotang, Hualong, Panyu, Guangzhou, China
中國廣州市番禺區化龍鎮草堂村農業公司路 6 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Aggregates	Sampling	BS 812: Part 102: 1989 CS3: 2013 Section 8
	Particle size distribution	BS 812: Section 103.1: 1985 + Amd. 6003 (by sieve analysis) BS EN 933-1: 1997 CS3: 2013 Section 10 (by sieve analysis)
	Flakiness index	BS 812: Section 105.1: 1989 CS3: 2013 Section 11
	Elongation index	BS 812: Section 105.2: 1990 CS3: 2013 Section 12
	Methylene blue value	CS3: 2013 Section 13
	Los Angeles value	CS3: 2013 Section 14
	Aggregate impact value	BS 812: Part 112: 1990 + Amd. 8772 CS3: 2013 Section 15
	Ten per cent fines value	BS 812: Part 111: 1990 CS3: 2013 Section 16
	Particle densities and water absorption	BS 812: Part 2: 1995 + Amd. 9195 CS3: 2013 Section 17
	Moisture content	BS 812: Part 109: 1990 (by oven drying method) CS3: 2013 Section 18 (by oven drying method)
	Soundness	BS 812: Part 121: 1989 CS3: 2013 Section 19
	Drying shrinkage	CS3: 2013 Section 20
	Alkali silica reaction potential by ultra-accelerated mortar-bar test	CS1: 2010 Section 22 RILEM TC 106-2: 2000
	Aggregate crushing value	BS 812: Part 110: 1990
	Bulk density, voids and bulking	BS 812: Part 2: 1995 Cl. 6
	Clay, silt and dust content	BS 812: Part 1: 1975 + Amd. 4875 (by decantation method)

Fugro Technical Services (Guangzhou) Limited
廣州市輝固技術服務有限公司
No. 6, Nongye Gongsi Road, Caotang, Hualong, Panyu, Guangzhou, China
中國廣州市番禺區化龍鎮草堂村農業公司路 6 號

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Aggregates (cont'd)	Relative densities and water absorption	BS 812: Part 2: 1975 + Amd. 4615 (by Gas jar method and Pycnometer method)
	Reduction of laboratory samples	BS EN 932-2: 1999 Cl. 8 & 10 (Riffle box method and Quartering method)
	Shell content in coarse aggregates	BS 812: Part 106: 1985
Cement & Portland pulverised fuel ash cement (PPFAC)	Compressive strength of broken mortar prisms in the force range 15 kN – 300 kN	BS EN 196-1: 2016
	Density	BS EN 196-6: 2010 Annex NC
	Fineness	BS EN 196-6: 2010 (by Blaine method)
	Flexural strength of mortar prisms	BS EN 196-1: 2016
	Setting times	BS EN 196-3: 2016
	Soundness	BS EN 196-3: 2016
	Standard consistence	BS EN 196-3: 2016
Concrete	Sampling fresh concrete on site	BS EN 12350-1: 2009 CS1: 2010 Section 1
	Slump of fresh concrete	BS EN 12350-2: 2009 CS1: 2010 Section 2 Part I
	Flow table test	BS 1881: Part 105: 1984 + Amd. 6087 BS EN 12350-5: 2000 + Amd. 11078 CS1: 2010: Section 2 Part IV
	Stiffening time of fresh concrete	CS1: 2010 Section 3
	Density of compacted fresh concrete	BS EN 12350-6: 2009 CS1: 2010 Section 5
	Air content of fresh concrete	BS EN 12350-7: 2009 CS1: 2010 Section 6

Fugro Technical Services (Guangzhou) Limited
廣州市輝固技術服務有限公司
No. 6, Nongye Gongsi Road, Caotang, Hualong, Panyu, Guangzhou, China
中國廣州市番禺區化龍鎮草堂村農業公司路 6 號

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Concrete (cont'd)	Making test cubes from fresh concrete	CS1: 2010 Section 7
	Making test cylinders from fresh concrete	CS1: 2010 Section 9
	Curing test specimens	BS EN 12390-2: 2019 CS1: 2010 Section 10
	Mixing and sampling of fresh concrete	CS1: 2010 Section 11
	Compressive strength of concrete cubes in the force range 50 kN – 3000 kN	BS EN 12390-3: 2019 CS1: 2010 Section 12
	Tensile splitting strength of cylindrical specimens	CS1: 2010 Section 13
	Obtaining core samples	CS1: 2010 Section 15
	Compressive strength of concrete cores in the force range 50 kN – 3000 kN	CS1: 2010 Section 15
	Density of hardened concrete	CS1: 2010 Section 16
	Bleeding test	ASTM C232-99 Method A BS EN 480-4: 1997
	Capillary absorption	BS EN 480-5: 2005
	Consistence of mortar	BS EN 413-2: 2016 Cl. 5
	Mixing of concrete and mortar	BS EN 480-1: 2014
	Setting time	BS EN 480-2: 2006
	Suitability of water for making concrete (strength and setting time)	BS EN 196-1: 2016 BS EN 196-3: 2016 in conjunction with the following specification: BS EN 1008: 2002 Cl. 4.4
	Temperature measurement of fresh concrete	BS 5328: Part 4: 1990 Cl. 3.4(b)
	Water absorption	BS 1881: Part 122: 2011 + A1: 2020

Fugro Technical Services (Guangzhou) Limited
廣州市輝固技術服務有限公司
No. 6, Nongye Gongsi Road, Caotang, Hualong, Panyu, Guangzhou, China
中國廣州市番禺區化龍鎮草堂村農業公司路 6 號

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Fire (Smoke control tests)	Pre-test conditioning for doors, shutters and openable windows	BS EN 14600: 2005 Cl.5.2 & 5.3.2 BS EN 16034-2014 Annex A.3.2 & A.4
	Smoke control test for smoke control doors and shutters	BS EN 1634-3: 2004
Fire (Thermal insulation)	Determination of steady-state thermal transmission properties - Calibrated and guarded hot box	ISO 8990: 1994 GB/T 13475-2008 BS EN ISO 8990: 1996
	Determination of steady-state thermal resistance and related properties - Guarded hot plate apparatus	ISO 8302: 1991 GB/T 10294-2008
Fire (Other)	Cellular plastics - Determination of horizontal burning characteristics of small specimens subjected to a small flame 泡沫塑料燃燒性能試驗方法 –水平燃燒法	ISO 9772: 2012 GB/T 8332-2008
	Combustibility test for building materials	AS 1530.1: 1994 (R2016)
	Determination of the heat of combustion 建築材料及製品的燃燒性能燃燒熱值的測定	BS EN ISO 1716: 2010 BS EN ISO 1716: 2018 GB/T 14402-2007 in conjunction with the following specification(s) BS EN 13501-1: 2018
	Determination of the burning behaviour using a radiant heat source 鋪地材料燃燒性能測定 - 輻射熱源法	AS ISO 9239-1: 2003 (R2016) BS EN ISO 9239-1: 2010 GB/T 11785-2005 in conjunction with the following specification(s) BS EN 13501-1: 2018
	Determining the flammability characteristics of nonrigid solid plastics	ASTM D 4804-20

Fugro Technical Services (Guangzhou) Limited
廣州市輝固技術服務有限公司
No. 6, Nongye Gongsi Road, Caotang, Hualong, Panyu, Guangzhou, China
中國廣州市番禺區化龍鎮草堂村農業公司路 6 號

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Fire (Other) (cont'd)	Fire hazard testing – test flames – 50W horizontal and vertical flame test methods – Horizontal burning test 塑膠 – 燃燒性能的測定-水平法	IEC 60695-11-10: 2013 Cl. 8 GB/T 2408-2008 Cl. 8
	Fire hazard testing – test flames – 50W horizontal and vertical flame test methods – Vertical burning test 塑膠 – 燃燒性能的測定-垂直法	IEC 60695-11-10: 2013 Cl. 9 GB/T 2408-2008 Cl. 9
	Fire hazard testing – test flames – 500W flame test methods	IEC 60695-11-20: 2015
	Horizontal burning characteristics of cellular polymeric materials	ASTM D 4986-18
	Ignitability of building products subjected to direct impingement of flame – Single-flame source test 建築材料可燃性試驗方法	BS EN ISO 11925-2: 2010 BS EN ISO 11925-2: 2020 GB/T 8626-2007 in conjunction with the following specification(s): BS EN 13501-1: 2018
	Measuring the comparative burning characteristics of solid plastics in a vertical position	ASTM D3801-20
	Measuring the comparative burning characteristics and resistance to burn-through of solid plastics using a 125-mm flame	ASTM D 5048-20
	Non-combustibility test for building products 建築材料不燃性試驗	BS 476: Part 4: 1970 + Amd. 2483 & 4390 BS EN ISO 1182: 2010 BS EN ISO 1182: 2020 GB/T 5464-2010 in conjunction with the following specification(s): BS EN 13501-1: 2018
	Rate of burning and/or extent and time of burning of plastics in a horizontal position	ASTM D 635-18
	Response to ignition by a small flame – Edge ignition	DIN 53438 Part 2: June 1984
	Response to ignition by a small flame – Surface ignition	DIN 53438 Part 3: June 1984
	Tests for flammability of plastic materials – Horizontal burning test	ANSI/UL 94-2013 Cl. 7

Fugro Technical Services (Guangzhou) Limited
廣州市輝固技術服務有限公司
No. 6, Nongye Gongsi Road, Caotang, Hualong, Panyu, Guangzhou, China
中國廣州市番禺區化龍鎮草堂村農業公司路 6 號

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Fire (Other) (cont'd)	Tests for flammability of plastic materials – 50W (20mm) vertical burning test	ANSI/UL 94-2013 Cl. 8
	Tests for flammability of plastic materials – 500W (125mm) vertical burning test	ANSI/UL 94-2013 Cl. 9
	Tests for flammability of plastic materials – Thin material vertical burning test	ANSI/UL 94-2013 Cl. 11
	Tests for flammability of plastic materials – Horizontal burning foamed material test	ANSI/UL 94-2013 Cl. 12
Glass	Impact test of glass	BS 6206: 1981
Ground Granulated Blastfurnace Slag (GGBS)	Activity index	BS EN 196-1: 2016 in conjunction with the following specification: BS EN 15167-1: 2006 Cl. 5.3.2.3
	Density	BS EN 196-6: 2010 Annex NC in conjunction with the following specification: BS EN 15167-1: 2006 Cl. 5.5g
	Fineness	BS EN 196-6: 2010 (using Blaine Method) in conjunction with the following specification: BS EN 15167-1: 2006 Cl. 5.3.1
	Initial setting time	BS EN 196-3: 2016 in conjunction with the following specification: BS EN 15167-1: 2006 Cl. 5.3.2.2
	Moisture content	BS EN 15167-1: 2006 Annex A

Fugro Technical Services (Guangzhou) Limited
廣州市輝固技術服務有限公司
No. 6, Nongye Gongsi Road, Caotang, Hualong, Panyu, Guangzhou, China
中國廣州市番禺區化龍鎮草堂村農業公司路 6 號

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Metallic materials	Bond property of steel reinforcing bars by surface geometry measurement	CS2: 2012 (Rev. 5) Cl. 6.1 & 6.7
	Brinell hardness test of metallic materials in the scales of HBW 2.5 / 187.5, HBW 5 /750, HBW 10 / 1000 & HBW 10 /3000	BS EN ISO 6506-1: 2014
	Charpy 'V' notch impact test	BS EN 10045-1: 1990
	Mass per meter of steel reinforcing bars	CS2: 2012 (Rev. 5) Cl. 6.1 & 6.2
	Rebend test of steel reinforcing bars for reinforcement of concrete	CS2: 2012 (Rev. 5) Cl. 1.6.3, 6.1 & 6.5
	Rockwell hardness test in the scale range HRA to HRC	BS EN ISO 6508-1: 2016
	Tensile test of metallic materials in the force range 0.2 kN - 1000 kN	BS EN 10002-1: 2001 BS EN ISO 6892-1:2019 Cl. 10.3.3 Method B in conjunction with the following specification(s): BS EN 10025-1: 2004 Cl. 10.2 BS EN 10025-2: 2004 Cl. 10.2 BS EN 10210-1: 2006 Cl. 9.2.2
	Tensile test of steel reinforcing bars for reinforcement of concrete in the force range 10 kN – 1000 kN	BS EN ISO 6892-1: 2009 Cl. 10.4 Method B in conjunction with the following specification: CS2: 2012 (Rev. 5) Cl. 1.6.2, 6.1 & 6.4
	Vickers hardness test in scales of HV10 and HV30	BS EN ISO 6507-1: 2018

Fugro Technical Services (Guangzhou) Limited
廣州市輝固技術服務有限公司
No. 6, Nongye Gongsi Road, Caotang, Hualong, Panyu, Guangzhou, China
中國廣州市番禺區化龍鎮草堂村農業公司路 6 號

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Pulverized fuel ash (PFA)	Activity index	BS EN 196-1: 2016 in conjunction with the following specification(s): BS EN 450-1: 2005 + A1: 2007 Cl. 5.3.2
	Fineness	BS 3892: Part 1: 1997 Annex D with modifications BS EN 451-2: 1995
	Initial setting time	BS EN 196-3: 2016 in conjunction with the following specification(s): BS 3892: Part 1: 1997 Cl. 10 BS EN 450-1: 2005 + A1: 2007 Cl. 5.3.5
	Moisture content	BS 3892: Part 1: 1997 Annex C with modifications
	Particle density	BS EN 196-6: 1992 Annex NC in conjunction with the following specification(s): BS 3892: Part 1: 1997 Cl. 7 BS EN 196-6: 2010 Annex NC in conjunction with the following specification(s): BS EN 450-1: 2005 + A1:2007 Cl. 5.3.4
	Soundness	BS EN 196-3: 2016 in conjunction with the following specification(s): BS 3892: Part 1: 1997 Cl. 11 BS EN 450-1: 2005 + A1: 2007 Cl. 5.3.3
	Strength factor	BS 3892: Part 1: 1997 Annex F
	Water requirement	BS 3892: Part 1: 1997 Annex E BS EN 450-1: 2005 + A1: 2007 Annex B

Fugro Technical Services (Guangzhou) Limited
廣州市輝固技術服務有限公司
No. 6, Nongye Gongsi Road, Caotang, Hualong, Panyu, Guangzhou, China
中國廣州市番禺區化龍鎮草堂村農業公司路 6 號

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Showers	Endurance test for flow controllers	AS/NZS 3662: 2013 + A1:2017 App. F Water Supplies Department The Hong Kong Voluntary Water Efficiency Labelling Scheme on Showers for Bathing (Dec 2018) Annex 1 Section IID
	Mean spray spread angle	AS/NZS 3662: 2013 + A1:2017 App. C Water Supplies Department The Hong Kong Voluntary Water Efficiency Labelling Scheme on Showers for Bathing (Dec 2018) Annex 1 Section IIB
	Nominal flow rate	AS/NZS 3662: 2013 + A1:2017 App. B Water Supplies Department The Hong Kong Voluntary Water Efficiency Labelling Scheme on Showers for Bathing (Dec 2018) Annex 1 Section I
	Temperature drop	AS/NZS 3662: 2013 + A1:2017 App. D Water Supplies Department The Hong Kong Voluntary Water Efficiency Labelling Scheme on Showers for Bathing (Dec 2018) Annex 1 Section IIC
Tapwares - Water taps	Endurance test for flow controllers	AS/NZS 3718: 2005 (R2016) App. Q Water Supplies Department The Hong Kong Voluntary Water Efficiency Labelling Scheme on Water Taps (Dec 2018) Annex 1 Section II
	Nominal flow rate	AS/NZS 3718: 2005 (R2016) App. G Water Supplies Department The Hong Kong Voluntary Water Efficiency Labelling Scheme on Water Taps (Dec 2018) Annex 1

Fugro Technical Services (Guangzhou) Limited
廣州市輝固技術服務有限公司
No. 6, Nongye Gongsi Road, Caotang, Hualong, Panyu, Guangzhou, China
中國廣州市番禺區化龍鎮草堂村農業公司路 6 號

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Admixtures (chemical analysis)	Ash content	BS 5075: Part 1: 1982 (Amd. 4910) App. D.2
	Chloride ion content	BS 5075: Part 1: 1982 (Amd. 4910) App. E (By potentiometric titration)
	Conventional dry material content	BS EN 480-8: 2012
	pH value (liquid)	ISO 4316: 1977 (E)
	Relative density (liquid)	BS 5075: Part 1: 1982 (Amd. 4910) App. D.3
	Density (liquid)	ISO 758: 1976
	Acid-soluble alkali content (equivalent Na_2O)	BS EN 480-12: 2005
	Water soluble chloride content	BS EN 480-10: 2009 (Method 1)
	Dry material content	BS 5075: Part 1: 1982 (Amd. 4910) App. D1
Aggregates (chemical analysis)	Water-soluble chloride salts	BS 812: Part 117: 1988 *Excluding* Cl. 4 BS EN 1744-1: 2009 + A1: 2012 Cl. 7 *Excluding* Cl. 7.2
	Total sulphate content by acid extraction	BS 812: Part 118: 1988 Cl. 6 *Excluding* Cl. 4
	Water-soluble chloride ion content	CS3: 2013 Section 21.3
	Acid-soluble chloride ion content	CS3: 2013 Section 21.4
	Acid-soluble sulphate content	BS EN 1744-1: 2009 + A1: 2012 Cl. 12 *Excluding* Cl. 12.2 CS3: 2013 Section 21.5
	Total sulphur content	CS3: 2013 Section 21.6
	Presence of humus	CS3: 2013 Section 21.7

Fugro Technical Services (Guangzhou) Limited
廣州市輝固技術服務有限公司
No. 6, Nongye Gongsi Road, Caotang, Hualong, Panyu, Guangzhou, China
中國廣州市番禺區化龍鎮草堂村農業公司路 6 號

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Cement (chemical analysis)	Chloride content (Cl^-)	BS EN 196-2: 2013 Cl. 4.5.16
	Residue insoluble in hydrochloric acid and sodium carbonate	BS EN 196-2: 2013 Cl. 4.4.3
	Loss on ignition (L.O.I.)	BS EN 196-2: 2013 Cl. 4.4.1
	Sulfate content (as SO_3)	BS EN 196-2: 2013 Cl. 4.4.2
	Acid-soluble alkali content (equivalent Na_2O)	BS EN 196-2: 2013 Cl. 4.5.19
Ground Granulated Blastfurnace Slag (GGBS) (chemical analysis)	Sulphate content (as SO_3)	BS EN 15167-1: 2006 (E) Cl. 5.2 & BS EN 196-2 : 2013 Cl. 4.4.2
	Total alkali content	BS EN 15167-1: 2006 (E) Cl. 5.5e & BS EN 196-2 : 2013 Cl. 4.4.19
Hardened concrete (chemical analysis)	Chloride content (by weight of hardened concrete sample)	BS 1881-124: 2015 Cl. 12.1 in conjunction with in-house method C-T-027 (by calculation) CS1: 2010 Section 21.10.2 in conjunction with in-house method C-T-030 (by calculation)
	Sulphate content (by weight of hardened concrete sample)	BS 1881-124: 2015 Cl. 12.2 in conjunction with in-house method C-T-029 (by calculation) CS1: 2010 Section 21.10.3 in conjunction with in-house method C-T-031 (by calculation)

Fugro Technical Services (Guangzhou) Limited
廣州市輝固技術服務有限公司
No. 6, Nongye Gongsi Road, Caotang, Hualong, Panyu, Guangzhou, China
中國廣州市番禺區化龍鎮草堂村農業公司路 6 號

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Pulverized fuel ash (PFA) (chemical analysis)	Loss on ignition (L.O.I.)	BS EN 196-2: 2013 Cl. 4.4.1 (using 1h ignition time)
	Sulfate content (as SO_3)	BS EN 196-2: 2013 Cl. 4.4.2
	Chloride content (Cl^-)	BS EN 196-2: 2013 Cl. 4.5.16
	Total alkali content (equivalent Na_2O)	BS EN 196-2: 2013 Cl. 4.5.19
	Calcium oxide	In-house method C-T-036 (by titration with EDTA-vision determination of end-point)
Steel (chemical analysis) - Carbon steel and low alloy steel	Elemental Composition Carbon Sulphur Phosphorus Nitrogen Copper Manganese Nickel Chromium Molybdenum Vanadium	In-house method C-T-085
	Carbon equivalent value	CS2: 2012 (Rev.6) Cl. 1.5.1
Water (chemical analysis)	Bicarbonate and carbonate content	In-house method C-T-038
	Chloride content	BS EN 1008: 2002 Cl. 6.1.3
	Sulphate content	BS EN 1008: 2002 Cl. 6.1.3
	Acid-soluble alkali content (equivalent Na_2O)	BS EN 1008: 2002 Cl. 6.1.3
	Total dissolved solids dried at 180℃	BS 1377-3: 1990 Cl. 8
	pH value	BS 1377-3: 1990 Cl. 9

Fugro Technical Services (Guangzhou) Limited
廣州市輝固技術服務有限公司
1/F, Block 2, No. 34, Nanguang Road, Nancun, Panyu, Guangzhou, China
中國廣州市番禺區南村鎮南光路 34 號 2 棟 1 樓

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Acoustics (Sound insulation)	Laboratory measurement of airborne sound insulation of building elements	BS 2750-3: 1995 + Amd. 1 BS EN ISO 140-3: 1995 BS EN ISO 10140-2: 2010 BS EN ISO 10140-2: 2021 in conjunction with the following rating method(s): BS EN ISO 717-1: 1997 BS EN ISO 717-1: 2013 BS EN ISO 717-1: 2020
	建筑构件空气声隔声的实验室测量	GB/T 19889.3-2005 in conjunction with the following rating method(s): GB/T 50121-2005
	Laboratory measurement of airborne sound transmission loss of building partitions and elements	ASTM E90-09 ASTM E90-09 (2016) in conjunction with the following rating method(s): ASTM E413-16 ASTM E413-22 ASTM E1332-10a ASTM E1332-22
	Laboratory measurement of intrinsic characteristics of airborne sound insulation for road traffic noise reducing devices.	BS EN ISO 10140-2: 2010 in conjunction with the following rating method(s): BS EN 1793-2: 2012
	Field measurement of airborne sound attenuation between rooms in buildings	ASTM E336-16 in conjunction with the following rating method(s): ASTM E413-16
	Field measurement of airborne sound insulation between rooms in buildings and of building elements	BS EN ISO 140-4: 1998 in conjunction with the following rating method(s): BS EN ISO 717-1: 1997 BS EN ISO 717-1: 2013
	房间之间空气声隔声的现场测量	GB/T 19889.4-2005 in conjunction with the following rating method(s): GB/T 50121-2005

Fugro Technical Services (Guangzhou) Limited
廣州市輝固技術服務有限公司
1/F, Block 2, No. 34, Nanguang Road, Nancun, Panyu, Guangzhou, China
中國廣州市番禺區南村鎮南光路 34 號 2 棟 1 樓

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Acoustics (Sound absorption)	Laboratory measurement of sound absorption and sound absorption coefficients by the reverberation room method (Mounting Type: A, B, C, D, E, F, G, H, I, J, K, L & M)	ASTM C423-09a in conjunction with the following mounting method(s): ASTM E795-16
	Laboratory measurement of sound absorption in a reverberation room (Mounting Type: A, B, E, G, I & J) 混响室吸声测量	BS EN ISO 354: 2003 GB/T 20247-2006 in conjunction with the following rating method(s): BS EN ISO 11654: 1997
	Laboratory measurement of intrinsic characteristics of sound absorption for road traffic noise reducing devices	ISO 354: 2003 in conjunction with the following rating method(s): BS EN 1793-1: 1998
Acoustics (Other)	Field measurement of reverberation time in ordinary rooms	BS EN ISO 3382-2: 2008

Fugro Technical Services (Guangzhou) Limited
廣州市輝固技術服務有限公司
No 8, Hougang Industrial Street, Shachong, Dalong, Panyu, Guangzhou, China
廣州市番禺區大龍街沙湧村後崗工業街 8 號

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Fire (Fire resistance tests)	Fire resistance tests for doors, shutters and openable windows	BS EN 1634-1: 2008 BS EN 1634-1: 2014 + A1: 2018 GB/T 7633-2008
	Fire resistance tests for glazed elements of building construction	GB/T 12513-2006
	Fire resistance tests for loadbearing horizontal elements in the force range 0 kN - 280 kN	BS EN 1365-2: 2014 BS 476: Part 20: 1987 + Amd. 6487 + Corr. 1: 2014 and BS 476: Part 21: 1987 + Corr. 1: 2014
	Fire resistance tests for loadbearing vertical elements (excluding impact test) in the force range 0 kN - 1000 kN	BS EN 1365-1: 2012 excluding Cl. 9.5 BS 476: Part 20: 1987 + Amd. 6487 + Corr. 1: 2014 and BS 476: Part 21: 1987 + Corr. 1: 2014
	Fire resistance tests for non-loadbearing elements – walls (excluding impact test)	BS EN 1364-1: 1999 excluding Cl. 9.5 BS EN 1364-1: 2015
	Fire resistance tests for non-loadbearing horizontal elements	BS EN 1364-2: 2018
	Fire resistance tests for non-loadbearing horizontal elements of building construction	BS 476: Part 20: 1987 + Amd. 6487 + Corr. 1: 2014 and BS 476: Part 22: 1987 + Corr. 1: 2014
	Fire resistance tests for non-loadbearing vertical elements of building construction	BS 476: Part 20: 1987 + Amd. 6487 + Corr. 1: 2014 and BS 476: Part 22: 1987 + Corr. 1: 2014 GB/T 9978.1-2008 and GB/T 9978.8-2008
	Fire resistance tests – general requirements alternative and additional procedures (excluding impact test)	AS 1530.4: 2005 Section 3, 7 & 8 AS 1530.4: 2014 Section 3, 7 & 8 BS EN 1363-1: 1999 BS EN 1363-1: 2012 BS EN 1363-1: 2020 BS EN 1363-2: 1999 excluding Cl. 4 & Cl. 7
	Pre-test conditioning for doors, shutters and openable windows	BS EN 14600: 2005 Cl. 5.1 (excluding Cl. 5.1.1.2) & Cl. 5.3.2 BS EN 16034: 2014 Annex A.2.2 & A.4

Modern Testing Consultants Limited
現代試驗顧問有限公司

ADDRESS : Room A1, 2/F, Cheung Lung Industrial Building, 10 Cheung Yee Street, Cheung Sha Wan, Kowloon, Hong Kong
地址 香港九龍長沙灣長義街 10 號昌隆工業大廈二樓 A1 室

ENQUIRY : Mr TANG Yui-him, Associate Director
查詢 鄧睿謙先生，聯席董事

TELEPHONE : (852) 3171 6823
電話

FAX : (852) 3171 6861
傳真

E-MAIL : info@mtcl.hk
電郵

WEBSITE ADDRESS : https://www.mtcl.hk
網址

CLIENTELE : Public
服務對象 公眾

Modern Testing Consultants Limited
現代試驗顧問有限公司

ADDRESS
地址 : Room A1, 2/F, Cheung Lung Industrial Building, 10 Cheung Yee Street, Cheung Sha Wan, Kowloon, Hong Kong
香港九龍長沙灣長義街 10 號昌隆工業大廈二樓 A1 室

ACCREDITED TEST CATEGORY
認可測試類別 : Construction Materials 建築材料

Modern Testing Consultants Limited
現代試驗顧問有限公司
Room A1, 2/F, Cheung Lung Industrial Building, 10 Cheung Yee Street, Cheung Sha Wan, Kowloon, Hong Kong
香港九龍長沙灣長義街 10 號昌隆工業大廈二樓 A1 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Adhesive	Pull-off test of adhesive	In-house method TPS 01
Concrete (diagnostic)	Infrared thermography for detection of building surface defects	Hong Kong Concrete Institute TM1 Issue 2 (2022)

Acoustic Testing Services Limited
聲學測試服務有限公司

ADDRESS : Unit N, 5/F, Century Industrial Centre, 33-35, Au Pui Wan Street, Fo Tan, Shatin, New Territories, Hong Kong
地址 香港新界沙田火炭坳背灣街 33-35 號世紀工業中心 5 字樓 N 室

ENQUIRY : Dr CHONG Fan, Managing Director
查詢 莊凡博士， 常務董事

TELEPHONE : (852) 2690 9126
電話

FAX : (852) 2690 9125
傳真

E-MAIL : info@ATSL.com.hk
電郵

WEBSITE ADDRESS : http://www.atsl.com.hk/
網址

CLIENTELE : Public
服務對象 公眾

Acoustic Testing Services Limited
聲學測試服務有限公司

ADDRESS
地址

Main Laboratory	:	Unit E, 2/F, Century Industrial Centre, 33-35 Au Pui Wan Street, Fo Tan, Shatin, New Territories, Hong Kong 香港新界沙田火炭坳背灣街 33-35 號世紀工業中心 2 字樓 E 室
Test Location at Jiangmen City	:	No. 1, 1st Industrial Area, Lile, Wusha, Jianghai District, Jiangmen, Guangdong Province, P. R. China 中國廣東省江門市江海區禮樂鎮烏紗第一工業園 1 號
Test Location at Dongguan City	:	Chemco Building, Wang Zhongming Road Nos.1, Shipai Town, Dongguan City, Guangdong Province, P. R. China 中國廣東省東莞市石排鎮王仲銘大道興隆一路精科大廈
ACCREDITED TEST CATEGORY **認可測試類別**	:	Construction Materials 建築材料

Acoustic Testing Services Limited
聲學測試服務有限公司

Unit E, 2/F, Century Industrial Centre, 33-35 Au Pui Wan Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭坳背灣街 33-35 號世紀工業中心 2 字樓 E 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Acoustics (Sound insulation)	Laboratory measurement of airborne sound insulation of building elements	BS 2750: Part 3: 1995 BS EN ISO 140-3: 1995 + Amd. 1: 2004 BS EN ISO 10140-2: 2010 BS EN ISO 10140-2: 2021 in conjunction with the following rating method(s): BS EN ISO 717-1: 1997 BS EN ISO 717-1: 2013 BS EN ISO 717-1: 2020 ISO 717-3: 1982
	建筑构件空气声隔声的实验室测量	GB/T 19889.3-2005 in conjunction with the following rating method: GB/T 50121-2005
	Laboratory measurement of airborne sound insulation of small building elements	BS EN 20140-10: 1992 ISO 140-10: 1991 in conjunction with the following rating method(s): BS EN ISO 717-1: 1997 ISO 717-3: 1982
	Laboratory measurement of airborne sound transmission loss of building partitions and elements	ASTM E90-04 ASTM E90-09 ASTM E90-09 (2016) in conjunction with the following rating method(s): ASTM E413-10 ASTM E413-16 ASTM E413-22 ASTM E1332-10a ASTM E1332-16 ASTM E1332-22 BS EN ISO 717-1: 2013 BS EN ISO 717-1: 2020
	Laboratory measurement of intrinsic characteristics of airborne sound insulation for road traffic noise reducing devices.	BS 2750: Part 3: 1995 BS EN ISO 140-3: 1995 + Amd. 1: 2004 BS EN ISO 10140-2: 2010 BS EN ISO 10140-2: 2021 in conjunction with the following specification(s): BS EN 1793-2: 1998 BS EN 1793-2: 2012 BS EN 1793-2: 2018 BS EN 1793-3: 1998

Acoustic Testing Services Limited
聲學測試服務有限公司
Unit E, 2/F, Century Industrial Centre, 33-35 Au Pui Wan Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭坳背灣街 33-35 號世紀工業中心 2 字樓 E 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Acoustics (Sound insulation) (cont'd)	Field measurement of airborne sound insulation between rooms in buildings and of building elements	BS EN ISO 140-4: 1998 in conjunction with the following rating method: BS EN ISO 717-1: 1997
	Field measurement of airborne sound attenuation between rooms in buildings	ASTM E336-16 ASTM E336-17a ASTM E336-20 ASTM E336-23 in conjunction with the following rating method(s): ASTM E413-10 ASTM E413-16 ASTM E413-22
Acoustics (Sound absorption)	Laboratory measurement of sound absorption in a reverberation room (All Mounting Types)	BS EN ISO 354: 2003 in conjunction with the following rating method: BS EN ISO 11654: 1997
	Laboratory measurement of sound absorption and sound absorption coefficients by the reverberation room method (All Mounting Types)	ASTM C423-09a ASTM C423-17 ASTM C423-22 in conjunction with the following mounting method(s): ASTM E795-05 ASTM E795-16 ASTM E795-23
	Laboratory measurement of intrinsic characteristics of sound absorption for road traffic noise reducing devices	BS EN ISO 354: 2003 in conjunction with the following specification(s): BS EN 1793-1: 2012 BS EN 1793-1: 2017 BS EN 1793-3: 1998
	混响室吸声测量 （所有安装类型）	GB/T 20247-2006 in conjunction with the following rating method: BS EN ISO 11654: 1997

Acoustic Testing Services Limited
聲學測試服務有限公司
Unit E, 2/F, Century Industrial Centre, 33-35 Au Pui Wan Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭坳背灣街 33-35 號世紀工業中心 2 字樓 E 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Acoustics (Impact insulation)	Field measurement of impact sound insulation of floors in buildings and of building elements	BS EN ISO 140-7: 1998 / ISO 140-7: 1998 in conjunction with the following rating method: BS EN ISO 717-2: 1997
	楼板撞击声隔声的现场测量	GB/T 19889.7-2005 in conjunction with the following rating method: GB/T 50121-2005
	Field measurement of tapping machine impact sound transmission through floor-ceiling assemblies and associated support structures.	ASTM E1007-04$^{\varepsilon 1}$ ASTM E1007-16 ASTM E1007-19 ASTM E1007-21 in conjunction with the following rating method(s): ASTM E989-06 ASTM E989-06 (2012) ASTM E989-18 ASTM E989-21
	Field measurement of rain impact insulation of building elements excited by artificial rainfall	In house method ATS-IHM002-RI
Acoustics (Sound power level and sound energy level)	Laboratory measurement of sound power levels and sound energy levels of noise sources using sound pressure – precision methods for reverberation test rooms	BS EN ISO 3741: 2010
Acoustics (others)	Field measurement of background noise for rooms of Noise Criteria (NC) and/or Noise Rating (NR)	In house method ATS-IHM001-NC
	Field measurement of reverberation time in ordinary rooms	BS EN ISO 3382-2: 2008

Acoustic Testing Services Limited
聲學測試服務有限公司
No. 1, 1st Industrial Area, Lile, Wusha, Jianghai District, Jiangmen, Guangdong Province, P. R. China
中國廣東省江門市江海區禮樂鎮烏紗第一工業園 1 號

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Acoustics (Sound insulation)	Laboratory measurement of airborne sound insulation of building elements	BS 2750: Part 3: 1995 BS EN ISO 140-3: 1995 + Amd. 1: 2004 BS EN ISO 10140-2: 2010 BS EN ISO 10140-2: 2021 in conjunction with the following rating method(s): BS EN ISO 717-1: 1997 BS EN ISO 717-1: 2013 BS EN ISO 717-1: 2020 ISO 717-3: 1982
	建筑构件空气声隔声的实验室测量	GB/T 19889.3-2005 in conjunction with the following rating method: GB/T 50121-2005
	Laboratory measurement of airborne sound insulation of small building elements	BS EN 20140-10: 1992 ISO 140-10: 1991 in conjunction with the following rating method(s): BS EN ISO 717-1: 1997 ISO 717-3: 1982
	Laboratory measurement of airborne sound transmission loss of building partitions and elements	ASTM E90-04 ASTM E90-09 ASTM E90-09 (2016) in conjunction with the following rating method(s): ASTM E413-10 ASTM E413-16 ASTM E413-22 ASTM E1332-10a ASTM E1332-16 ASTM E1332-22 BS EN ISO 717-1: 2013 BS EN ISO 717-1: 2020
	Laboratory measurement of intrinsic characteristics of airborne sound insulation for road traffic noise reducing devices.	BS 2750: Part 3: 1995 BS EN ISO 140-3: 1995 + Amd. 1: 2004 BS EN ISO 10140-2: 2010 BS EN ISO 10140-2: 2021 in conjunction with the following specification(s): BS EN 1793-2: 1998 BS EN 1793-2: 2012 BS EN 1793-2: 2018 BS EN 1793-3: 1998

Acoustic Testing Services Limited
聲學測試服務有限公司
No. 1, 1st Industrial Area, Lile, Wusha, Jianghai District, Jiangmen, Guangdong Province, P. R. China
中國廣東省江門市江海區禮樂鎮烏紗第一工業園 1 號

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Acoustics (Sound absorption)	Laboratory measurement of sound absorption in a reverberation room (All Mounting Types)	BS EN ISO 354: 2003 in conjunction with the following rating method: BS EN ISO 11654: 1997
	Laboratory measurement of sound absorption and sound absorption coefficients by the reverberation room method (All Mounting Types)	ASTM C423-09a ASTM C423-17 ASTM C423-22 in conjunction with the following mounting method(s): ASTM E795-05 ASTM E795-16 ASTM E795-23
	Laboratory measurement of intrinsic characteristics of sound absorption for road traffic noise reducing devices	BS EN ISO 354: 2003 in conjunction with the following specification(s): BS EN 1793-1: 2012 BS EN 1793-1: 2017 BS EN 1793-3: 1998
	混响室吸声测量 （所有安装类型）	GB/T 20247-2006 in conjunction with the following rating method: BS EN ISO 11654: 1997
Acoustics (Impact insulation)	Laboratory measurement of impact sound insulation of floors in buildings and of building elements	BS EN ISO 140-6: 1998/ ISO 140-6: 1998 in conjunction with the following rating method: BS EN ISO 717-2: 1997
	楼板撞击声隔声的实验室测量	GB/T 19889.6-2005 in conjunction with the following rating method: GB/T 50121-2005
	Laboratory measurement of impact sound transmission through floor-ceiling assemblies using the tapping machine	ASTM E492-09 ASTM E492-09 (2016)$^{\varepsilon 1}$ ASTM E492-22 in conjunction with the following rating method(s): ASTM E989-06 (2012) ASTM E989-18 ASTM E989-21
	Laboratory measurement of the reduction of transmitted impact noise by floor coverings on a heavyweight standard floor in buildings and of building elements	BS EN ISO 140-8: 1998 / ISO 140-8: 1997 in conjunction with the following rating method: BS EN ISO 717-2: 1997

Acoustic Testing Services Limited
聲學測試服務有限公司
No. 1, 1st Industrial Area, Lile, Wusha, Jianghai District, Jiangmen, Guangdong Province, P. R. China
中國廣東省江門市江海區禮樂鎮烏紗第一工業園 1 號

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Acoustics (Impact insulation) (cont'd)	重质标准楼板覆面层撞击声改善量的实验室测量	GB/T 19889.8-2006 in conjunction with the following rating method: GB/T 50121-2005
	Laboratory measurement of impact sound insulation of building elements	BS EN ISO 10140-3: 2010 + A1: 2015 BS EN ISO 10140-3: 2021 in conjunction with the following rating method(s): BS EN ISO 717-2: 2013 BS EN ISO 717-2: 2020
	Laboratory measurement of the effectiveness of floor coverings in reducing impact sound transmission through concrete floors	ASTM E2179-03 (2009) ASTM E2179-03 (2016) ASTM E2179-21 in conjunction with the following rating method(s): ASTM E989-06 (2012) ASTM E989-18 ASTM E989-21 BS EN ISO 717-2: 1997 BS EN ISO 717-2: 2020
	Laboratory measurement of sound generated by rainfall on building elements	BS EN ISO 140-18: 2006
Acoustics (Sound power level and sound energy level)	Laboratory measurement of sound power levels and sound energy levels of noise sources using sound pressure – precision methods for reverberation test rooms	BS EN ISO 3741: 2010
Acoustics (others)	Laboratory measurement of room-to-room airborne sound insulation of a suspended ceiling with a plenum above it	BS 2750-9: 1987 BS EN 20140-9: 1994 ISO 140-9: 1985 in conjunction with the following rating method: BS EN ISO 717-1: 1997
	Laboratory measurement of airborne sound attenuation between rooms sharing a common ceiling plenum	ASTM E1414-06 ASTM E1414/E1414M-16 ASTM E1414/E1414M-21 ASTM E1414/E1414M-21a in conjunction with the following rating method(s): ASTM E413-10 ASTM E413-16 ASTM E413-22

Acoustic Testing Services Limited
聲學測試服務有限公司
No. 1, 1st Industrial Area, Lile, Wusha, Jianghai District, Jiangmen, Guangdong Province, P. R. China
中國廣東省江門市江海區禮樂鎮烏紗第一工業園 1 號

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Acoustics (others) (cond't)	Laboratory measurement of the flanking transmission of airborne and impact sound between adjoining rooms – application to light elements when the junction has a small influence	BS EN ISO 10848-2: 2006 BS EN ISO 10848-2: 2017 in conjunction with the following rating method(s): BS EN ISO 717-1: 2013 BS EN ISO 717-1: 2020
	Laboratory measurement of acoustical and airflow performance of duct liner materials and prefabricated silencers	ASTM E477-06a ASTM E477-20
	Laboratory measurement procedures for ducted silencers and air-terminal units – insertion loss, flow noise and total pressure loss	BS EN ISO 7235: 2009
	管道消声器和风道末端单元的实验室测量方法 –插入损失, 气流噪声和全压损失	GB/T 25516-2010

Acoustic Testing Services Limited
聲學測試服務有限公司
Chemco Building, Wang Zhongming Road Nos.1, Shipai Town, Dongguan City, Guangdong Province, P. R. China
中國廣東省東莞市石排鎮王仲銘大道興隆一路精科大廈

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Acoustics (Sound power level and sound energy level)	Laboratory measurement of sound power levels of noise sources – engineering methods for small movable sources in reverberant fields – comparison method for hard-walled test rooms	ARI Standard 260- 2001 BS EN ISO 3743-1: 1995

South China Inspection & Testing Limited
華南檢測有限公司

ADDRESS : Unit 7 to 8, 11/F, Block B, Veristrong Industrial Centre,
34-36 Au Pui Wan Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭坳背灣街 34-36 號豐盛工業中心 B 座 11 樓 7-8 室
地址

ENQUIRY : Mr CHEUNG Fai-wah, General Manager
張輝華先生，總經理
查詢

TELEPHONE : (852) 3124 1261
電話

FAX : (852) 3124 1272
傳真

E-MAIL : scit1689@gmail.com
電郵

WEBSITE ADDRESS : www.scit1689.com
網址

CLIENTELE : Public
服務對象
公眾

Contact details last updated on: 25 September 2024

South China Inspection & Testing Limited
華南檢測有限公司

ADDRESS : Unit 7 to 8, 11/F, Block B, Veristrong Industrial Centre,
地址 34-36 Au Pui Wan Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭坳背灣街 34-36 號豐盛工業中心 B 座 11 樓 7-8 室

ACCREDITED TEST CATEGORY : Construction Materials 建築材料
認可測試類別

South China Inspection & Testing Limited
華南檢測有限公司
Unit 7 to 8, 11/F, Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭坳背灣街 34-36 號豐盛工業中心 B 座 11 樓 7-8 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Structural fixings	Tensile proof load test of anchors by incremental loading in the force range 1 kN to 300 kN	BS 5080: Part 1: 1993 Cl. 6, 7.1.1 & 7.1.3 with modifications
	Tensile proof load test of drilled-in anchors used for cantilevered structure/hanger/curtain wall remedial works by incremental loading in the force range 1 kN – 300 kN	Buildings Department PNAP APP-169 (Oct 2023) App. A
	Tensile proof load test of drilled-in anchors used for works other than cantilevered structure/ hanger/curtain wall remedial works in the force range 1 kN – 300 kN	Buildings Department PNAP APP-169 (Oct 2023) App. B
	Tensile proof load test for cementitious or polymer based grouted bolts or dowels or reinforcing bars works or/and steel T-bolts with cast-in channels in the force range 1 kN – 300 kN	Buildings Department PNAP APP-169 (Oct 2023) App. C
Welds (non-destructive)	Liquid penetrant test (Colour contrast method)	BS 6443: 1984 + Amd. 4844 BS EN 571-1: 1997 BS EN ISO 3452-1: 2013 BS EN ISO 3452-1: 2021 in conjunction with the following specification(s): BS 2971: 1991 Section 7 BS 4515-1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 BS EN 1289: 1998 Table 1 BS EN ISO 5817: 2014 Table 1 BS EN ISO 5817: 2023 Table 1 BS EN ISO 23277: 2015 Table 1

South China Inspection & Testing Limited
華南檢測有限公司
Unit 7 to 8, 11/F, Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭坳背灣街 34-36 號豐盛工業中心 B 座 11 樓 7-8 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Welds (non-destructive) (cont'd)	Magnetic particle test (Magnetic flow method colour contrast technique using permanent magnets & A.C. yokes)	BS 6072: 1981 (1986) BS EN 1290: 1998 BS EN ISO 9934-1: 2001 + A1: 2003 BS EN ISO 9934-1: 2016 BS EN ISO 17638: 2009 BS EN ISO 17638: 2016 in conjunction with the following specification(s): BS 2971: 1991 Section 7 BS 4515-1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 BS 5400-6: 1999 Cl. 5.5.2.4.1 BS EN 1291: 1998 Table 1 BS EN ISO 5817: 2014 Table 1 BS EN ISO 5817: 2023 Table 1 BS EN ISO 23278: 2015 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b
	Ultrasonic test (Butt welds in plates & pipes, 'T' joint welds, nozzle welds & node welds)	BS 3923: Part 1: 1986 (Examination Level 1, 2a, 2b & 3) BS EN 1714: 1998 (Testing Level A, B & C) BS EN ISO 17640: 2010 (Testing Level A, B & C) BS EN ISO 17640: 2018 (Testing Level A, B & C) in conjunction with the following specification(s): BS 2971: 1991 Section 7 BS 4515-1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 BS 5400-6: 1999 Cl. 5.5.2.4.2 BS EN 1712: 1997 Table A.1 BS EN ISO 5817: 2014 Table 1 BS EN ISO 5817: 2023 Table 1 BS EN ISO 11666: 2018 Cl. 6 & Annex A Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b

South China Inspection & Testing Limited
華南檢測有限公司
Unit 7 to 8, 11/F, Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭坳背灣街 34-36 號豐盛工業中心 B 座 11 樓 7-8 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Welds (non-destructive) (cont'd)	Visual examination	BS 5289: 1976 BS EN 970: 1997 BS EN ISO 17637: 2011 BS EN ISO 17637: 2016 in conjunction with the following specification(s): BS 2971: 1991 Section 7 BS 4515-1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 BS 5400-6: 1999 Cl. 5.5.2.4.1 BS EN ISO 5817: 2014 Table 1 BS EN ISO 5817: 2023 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b
	Visual examination and bend test on stud connectors	<Visual examination as follows:> BS 5289: 1976 BS EN 970: 1997 BS EN ISO 17637: 2011 BS EN ISO 17637: 2016 <together with the following bend test method(s):> BS 5400-6: 1999 Cl. 5.5.4(b) BS EN ISO 14555: 2017 Cl. 11.2, 11.3 (excluding Torque wrench method), 12.2 & 12.3 Buildings Department Code of Practice for the Structural Use of Steel 2011 (2023) Cl. 14.3.7.3

Water Supplies Department - Tai Po Water Treatment Works Laboratory
水務署 － 大埔濾水廠化驗室

ADDRESS 地址	:	Tai Po Water Treatment Works, Tai Po Road, Tai Wo Section, Tai Po, New Territories, Hong Kong 香港新界大埔大埔道太和段大埔濾水廠
ENQUIRY 查詢	:	Mr CHOY Tak-yip, Chief Waterworks Chemist 蔡德業先生，總水務化驗師
TELEPHONE 電話	:	2829 4443
FAX 傳真	:	2824 0578
E-MAIL 電郵	:	wsdinfo@wsd.gov.hk
WEBSITE ADDRESS 網址	:	http://www.wsd.gov.hk
CLIENTELE 服務對象	:	Government departments, normally not available for public testing 通常只服務政府部門

Water Supplies Department - Tai Po Water Treatment Works Laboratory
水務署 – 大埔濾水廠化驗室

ADDRESS **地址**	:	Tai Po Water Treatment Works, Tai Po Road, Tai Wo Section, Tai Po, New Territories, Hong Kong 香港新界大埔大埔道太和段大埔濾水廠
ACCREDITED TEST CATEGORY **認可測試類別**	:	Environmental Testing 環境測試

Water Supplies Department - Tai Po Water Treatment Works Laboratory
水務署 – 大埔濾水廠化驗室

Tai Po Water Treatment Works, Tai Po Road, Tai Wo Section, Tai Po, New Territories, Hong Kong
香港新界大埔大埔道太和段大埔濾水廠

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Water	Physical Examination:-	
	Turbidity	In-house method FW-PH-006 (By Nephelometric Method)
	Total Hardness (EDTA)	In-house method FW-CH-011 (By EDTA Titrimetric Method)
	Calcium Hardness	In-house method FW-CH-025 (By EDTA Titrimetric Method)
	Non-metallic Constituents:-	
	Fluoride	In-house method FW-CH-020 (By Ion-selective Electrode Method)
	Chloride	In-house method FW-CH-016 (By Argentometric Method)

Hong Kong Baptist University – Chemical Testing Services
香港浸會大學 – 化學分析中心

ADDRESS 地址	:	Room T1212, Cha Chi-Ming Science Tower, Ho Sin Hang Campus, 224 Waterloo Road, Kowloon Tong, Hong Kong. 香港九龍塘窩打老道 224 號何善衡校園查濟民科學大樓 T1212 室
ENQUIRY 查詢	:	Prof Kelvin LEUNG Sze-yin, Director 梁士賢博士
TELEPHONE 電話	:	3411 7072
FAX 傳真	:	3411 2343
E-MAIL 電郵	:	cts@sci.hkbu.edu.hk
WEBSITE ADDRESS 網址	:	www.hkbu.edu.hk/~cts
CLIENTELE 服務對象	:	Public 公眾

Hong Kong Baptist University – Chemical Testing Services
香港浸會大學 – 化學分析中心

ADDRESS **地址**	:	Room T1212, Cha Chi-Ming Science Tower, Ho Sin Hang Campus, 224 Waterloo Road, Kowloon Tong, Hong Kong. 香港九龍塘窩打老道 224 號何善衡校園查濟民科學大樓 T1212 室
ACCREDITED TEST CATEGORY **認可測試類別**	:	Food 食品 Pharmaceutical Products 藥物

Hong Kong Baptist University – Chemical Testing Services
香港浸會大學 – 化學分析中心

Room T1212, Cha Chi-Ming Science Tower, Ho Sin Hang Campus, 224 Waterloo Road, Kowloon Tong, Hong Kong.
香港九龍塘窩打老道 224 號何善衡校園查濟民科學大樓 T1212 室

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
General foodstuff	Preservatives:-	
	- Sulphur dioxide	In-house method AMM-15 (Screening by lead acetate paper)
	- Sulphur dioxide	In-house method AMM-16 (Quantitative by titration method)

Hong Kong Baptist University – Chemical Testing Services
香港浸會大學 – 化學分析中心

Room T1212, Cha Chi-Ming Science Tower, Ho Sin Hang Campus, 224 Waterloo Road, Kowloon Tong, Hong Kong.
香港九龍塘窩打老道 224 號何善衡校園查濟民科學大樓 T1212 室

Pharmaceutical Products 藥物		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Physical and Chemical tests:-	
Tablets (uncoated and film-coated)	Disintegration	British Pharmacopoeia 2005 (BP 2005), App. VII A, Test A
Liquid-dosage-form pharmaceutical preparation	Determination of pH (4-10)	British Pharmacopoeia 2005 (BP 2005), App. V L.

Qualitech Testing & Consultancy Limited
匯駿檢測及顧問有限公司

ADDRESS 地址	:	Flat E & F, 9/F, Block B, Universal Industrial Centre, 19-25 Shan Mei Street, Fo Tan, New Territories, Hong Kong 香港新界火炭山尾街19-25號宇宙工業中心B座9樓E 及 F室
ENQUIRY 查詢	:	Mr Stanley TSE Wai-lai, General Manager 謝懷禮先生，總經理
TELEPHONE 電話	:	2185 0900
FAX 傳真	:	2687 6752
E-MAIL 電郵	:	qtc@qtc-hk.com
WEBSITE ADDRESS 網址	:	www.qtc-hk.com
CLIENTELE 服務對象	:	Public 公眾

Qualitech Testing & Consultancy Limited
匯駿檢測及顧問有限公司

ADDRESS
地址

Main Laboratory	:	Flat E & F, 9/F, Block B, Universal Industrial Centre, 19-25 Shan Mei Street, Fo Tan, New Territories, Hong Kong 香港新界火炭山尾街 19-25 號宇宙工業中心 B 座 9 樓 E 及 F 室
Branch Laboratories	:	Flat G, 9/F, Block B, Universal Industrial Centre, 19-25 Shan Mei Street, Fo Tan, New Territories, Hong Kong 香港新界火炭山尾街 19-25 號宇宙工業中心 B 座 9 樓 G 室 Workshop 3, 1/F, Wah Wai Centre, 38-40 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong 香港新界火炭坳背灣街 38-40 號華衛工貿中心 1 樓 3 號鋪 Flat E, 6/F, Block B, Universal Industrial Centre, 19-25 Shan Mei Street, Fo Tan, New Territories, Hong Kong 香港新界火炭山尾街 19-25 號宇宙工業中心 B 座 6 樓 E 室 Flat N, 17/F, Block B, Universal Industrial Centre, 19-25 Shan Mei Street, Fo Tan, New Territories, Hong Kong 香港新界火炭山尾街 19-25 號宇宙工業中心 B 座 17 樓 N 室
ACCREDITED TEST CATEGORY **認可測試類別**	:	Calibration Services 校正服務 Construction Materials 建築材料 Environmental Testing 環境測試 Miscellaneous 雜類

Qualitech Testing & Consultancy Limited
匯駿檢測及顧問有限公司
Flat G, 9/F, Block B, Universal Industrial Centre, 19-25 Shan Mei Street, Fo Tan, New Territories, Hong Kong
香港新界火炭山尾街 19-25 號宇宙工業中心 B 座 9 樓 G 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Construction materials testing equipment		
- Cement grout flow cone	Verification in accordance with in-house method CAL-CGFLOWCONE for the performance as specified in: ASTM C939-02 Cl. 8; or ASTM C939-16a Cl. 9	
	Time of efflux of water from cone: 8.0s	0.07 s
- Compacting bar	Verification in accordance with in-house method CAL-COMPBAR for the dimensional and mass requirements as specified in CS1: 2010 Vol. 1 App. A10	
	Dimensions of ramming face: 25 mm x 25 mm Length: 380 mm Mass: 1.8 kg	0.1 mm 0.5 mm 4 g
- Covermeter	Calibration for depth of cover in accordance with in-house method CAL-COVERMETER(C) using a device as specified in BS 1881: Part 204: 1988 Cl. 6.4 (Method C) over the following ranges :	
	20 mm to 120 mm	1.5 mm
- Cube mould	Verification in accordance with in-house method CAL-CUBEMOULD for the dimensional requirements as specified in CS1: 2010 Vol. 1 App. A25	
	Dimensions: 100 mm or 150 mm Flatness: not more than 0.03 mm or 0.06 mm Perpendicularity: 0.5 mm Parallelism: 1 mm	0.03 mm 0.01 mm 0.05 mm 0.20 mm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Qualitech Testing & Consultancy Limited
匯駿檢測及顧問有限公司
Flat G, 9/F, Block B, Universal Industrial Centre, 19-25 Shan Mei Street, Fo Tan, New Territories, Hong Kong
香港新界火炭山尾街 19-25 號宇宙工業中心 B 座 9 樓 G 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Construction materials testing equipment (cont'd)		
- Cube mould (cont'd)	On-site verification in accordance with in-house method CAL-CUBEMOULD for the dimensional requirements as specified in CS1: 2010 Vol. 1 App. A25	
	Dimensions: 100 mm or 150 mm	0.03 mm
	Flatness: not more than 0.03 mm or 0.06 mm	0.01 mm
	Perpendicularity: 0.5 mm	0.05 mm
	Parallelism: 1 mm	0.20 mm
- Curing tank	On-site verification for the following parameters in accordance with in-house method CAL-CURTANK for the requirements as specified in CS1: 2010: Vol. 1 App. A28	
	Temperature distribution at a range of (27 ± 3) ℃	0.4 K
	Efficiency of circulation	0.5 min
- Flow mould for determination of flow of fresh concrete	Verification in accordance with in-house method CAL-FLOWMOULD for the dimensional requirements as specified in CS1: 2010 Vol. 1 App. A15.2	
	Internal diameter of top: 130 mm	0.5 mm
	Internal diameter of base: 200 mm	0.5 mm
	Height: 200 mm	0.4 mm
	Thickness of metal: 1.5 mm	0.1 mm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Qualitech Testing & Consultancy Limited
匯駿檢測及顧問有限公司
Flat G, 9/F, Block B, Universal Industrial Centre, 19-25 Shan Mei Street, Fo Tan, New Territories, Hong Kong
香港新界火炭山尾街 19-25 號宇宙工業中心 B 座 9 樓 G 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Construction materials testing equipment (cont'd)		
- Flow table for determination of flow of fresh concrete	Verification in accordance with in-house method CAL-FLOWTABLE for the dimensional and mass requirements as specified in CS1: 2010 Vol. 1 App. A15.1	
	Dimensions of metal plate: 700 mm x 700 mm	0.6 mm
	Thickness of metal plate: minimum 2 mm	0.2 mm
	Diameter of central circle: 210 mm	0.2 mm
	Fall height: 40 mm	0.2 mm
	Mass: 16 kg	0.01 kg
- Flow tamping bar for determination of flow of fresh concrete	Verification in accordance with in-house method CAL-FLOWTAMPBAR for the dimensional requirements as specified in CS1: 2010 Vol. 1 App. A15.3	
	Dimensions of square section: 40 mm x 40 mm	0.1 mm
	Length of square section: 200 mm	0.5 mm
	Length of circular handle: 120 mm to 150 mm	0.5 mm
- Mixer	On-site calibration for rotation speed of mixing blade and mixing bowl in accordance with in-house method CAL-MIX-SP over the following ranges :	
	20 rpm to 1000 rpm	1 rpm
	above 1000 rpm to 2000 rpm	2 rpm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Qualitech Testing & Consultancy Limited
匯駿檢測及顧問有限公司
Flat G, 9/F, Block B, Universal Industrial Centre, 19-25 Shan Mei Street, Fo Tan, New Territories, Hong Kong
香港新界火炭山尾街 19-25 號宇宙工業中心 B 座 9 樓 G 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Construction materials testing equipment (cont'd)		
- Rebound hammer	Calibration for rebound value in accordance with in-house method CAL-REBHAM using anvil complying with BS EN 12504-2: 2001 Cl. 4.2; or BS EN 12504-2: 2012 Cl. 4.2; or BS EN 12504-2: 2021 Cl. 5.2	1 rebound count
- Slump cone	Verification in accordance with in-house method CAL-SLUMPCONE for the dimensional requirements as specified in CS1: 2010 Vol. 1 App. A5	
	Internal diameter of base: 200 mm	0.5 mm
	Internal diameter of top: 100 mm	0.5 mm
	Wall thickness: minimum 1.5 mm	0.1 mm
	Height: 300 mm	0.4 mm
- Slump flow base plate	Verification in accordance with in-house method CAL-SFBASEPL for the dimensional requirements as specified in CS1: 2010 Vol. 1 App. A16	
	Plate thickness: minimum 2 mm	0.1 mm
	Deviation from flatness: less than 3 mm	0.1 mm
	Dimensions of plate: minimum 800 mm x 800 mm	0.6 mm
	Diameters of central circles: 200 mm and 500 mm	0.6 mm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Qualitech Testing & Consultancy Limited
匯駿檢測及顧問有限公司
Flat G, 9/F, Block B, Universal Industrial Centre, 19-25 Shan Mei Street, Fo Tan, New Territories, Hong Kong
香港新界火炭山尾街 19-25 號宇宙工業中心 B 座 9 樓 G 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Construction materials testing equipment (cont'd)		
- Tamping rod	Verification in accordance with in-house method CAL-TAMPROD for the dimensional requirements as specified in CS1: 2010 Vol. 1 App. A6	
	Diameter: 16 mm	0.2 mm
	Length: 600 mm	0.5 mm
- Weld gauge	Calibration in accordance with in-house method CAL-WELDGAUGE for the following parameters :	
	Scale measuring bevel angle: 0° to 90°	1.1°
	Scale measuring fixed bevel angle: 0° to 90°	1.1°
	Ruler: 0.5 mm to 60 mm	0.6 mm
	Scale measuring weld width: 0 mm to 10 mm	0.6 mm
	Scale measuring high low, weld cap and leg length: 0 mm to 50 mm	0.6 mm
	Scale measuring undercut depth: 0 mm to 25 mm	0.6 mm
	Scale measuring weld throat: 0 mm to 20 mm	0.6 mm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Qualitech Testing & Consultancy Limited
匯駿檢測及顧問有限公司
Flat G, 9/F, Block B, Universal Industrial Centre, 19-25 Shan Mei Street, Fo Tan, New Territories, Hong Kong
香港新界火炭山尾街 19-25 號宇宙工業中心 B 座 9 樓 G 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Electrical measurements		
- Time and frequency measuring instruments		
- Digital stop watch / Timer	Calibration for time in accordance with in-house method CAL-TIMER over the following ranges :	
	5 s to 3600 s	60 ms
	1 h to 4 h	60 ms

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Qualitech Testing & Consultancy Limited
匯駿檢測及顧問有限公司
Flat G, 9/F, Block B, Universal Industrial Centre, 19-25 Shan Mei Street, Fo Tan, New Territories, Hong Kong
香港新界火炭山尾街 19-25 號宇宙工業中心 B 座 9 樓 G 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related measurements		
- Angle measuring instruments		
- Engineer's square	Calibration for deviation from squareness in accordance with in-house method CAL-SQUARE over the following ranges :	
- Square with inner length of blade from 10 mm to 270 mm	20 μm to 1000 μm	10 μm
- Square with inner length of blade above 270 mm to 350 mm	20 μm to 1000 μm	20 μm
- Spirit level	Calibration of sensitivity in accordance with in-house method CAL-SPLVL-SEN over the following range :	
	0.35 mm/m to 35 mm/m	0.28 mm/m to 7.5 mm/m

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Qualitech Testing & Consultancy Limited
匯駿檢測及顧問有限公司
Flat G, 9/F, Block B, Universal Industrial Centre, 19-25 Shan Mei Street, Fo Tan, New Territories, Hong Kong
香港新界火炭山尾街 19-25 號宇宙工業中心 B 座 9 樓 G 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related measurements (cont'd)		
- Form measuring instruments		
- Straight edge 10 mm to 1000 mm length	Calibration for deviation from straightness in accordance with in-house method CAL-STREDGE over the following range :	
	-20 µm to 1000 µm	11 µm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Qualitech Testing & Consultancy Limited
匯駿檢測及顧問有限公司
Flat G, 9/F, Block B, Universal Industrial Centre, 19-25 Shan Mei Street, Fo Tan, New Territories, Hong Kong
香港新界火炭山尾街 19-25 號宇宙工業中心 B 座 9 樓 G 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Length and related measurements (cont'd)		
- Length measuring instruments		
- Calibration foil	Calibration for thickness in accordance with in-house method CAL-CTG+FOIL over the following ranges :	
	12 µm to 12.5 mm	3 µm to 5 µm
- Calliper (Vernier)	Calibration for length in accordance with BS 887: 2008 App. B.1 over the following range :	
	external measurement: 0.5 mm to 305 mm	0.02 mm
	internal measurement: 10 mm to 305 mm	0.03 mm
- Calliper	Calibration for partial surface contact error and shift error in accordance with ISO 13385-1: 2019 (excluding cl. 4, 5.7, 5.8, 6.1, 6.3, 7 and Annex B) over the following ranges :	
	partial surface contact error: 0.5 mm to 305 mm	0.02 mm
	shift error: 0.5 mm to 305 mm	0.02 mm
- Coating thickness gauge	Calibration for thickness using calibration foils in accordance with in-house method CAL-CTG+FOIL over the following ranges :	
	12 µm to 12.5 mm	6 µm to 70 µm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Qualitech Testing & Consultancy Limited
匯駿檢測及顧問有限公司
Flat G, 9/F, Block B, Universal Industrial Centre, 19-25 Shan Mei Street, Fo Tan, New Territories, Hong Kong
香港新界火炭山尾街 19-25 號宇宙工業中心 B 座 9 樓 G 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related measurements (cont'd)		
- Length measuring instruments		
- Dial gauge	Calibration for length in accordance with BS 907: 2008 App. B3 using micrometer calibrator over the following range :	
	0.001 mm to 25 mm	5 µm
	Calibration for length in accordance with BS 907: 2008 App. B3 using gauge blocks over the following ranges :	
	0.1 mm to 50 mm	6 µm
	above 50 mm to 100 mm	7 µm
	Calibration for length in accordance with BS 907: 2008 App. B3 using micrometer calibrator with gauge blocks over the following range :	
	0.001 mm to 100 mm	7 µm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Qualitech Testing & Consultancy Limited
匯駿檢測及顧問有限公司
Flat G, 9/F, Block B, Universal Industrial Centre, 19-25 Shan Mei Street, Fo Tan, New Territories, Hong Kong
香港新界火炭山尾街 19-25 號宇宙工業中心 B 座 9 樓 G 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related measurements (cont'd)		
- Length measuring instruments (cont'd)		
- Digimatic indicator	Calibration for length in accordance with in-house method CAL-LVDT using micrometer calibrator over the following range :	
	0.001 mm to 25 mm	2 µm
	Calibration for length in accordance with in-house method CAL-LVDT using gauge blocks over the following ranges :	
	0.1 mm to 50 mm	2 µm
	above 50 mm to 100 mm	3 µm
- Feeler gauge	Calibration for thickness of blade in accordance with in-house method CAL-FEELERG over the following range :	
	0.02 mm to 5 mm	2 µm
- Engineer's steel rule	Calibration for length in accordance with in-house method CAL-STRULE (Method I) over the following range :	
	1 mm to 1 m	0.23 mm
	Calibration for length in accordance with in-house method CAL-STRULE (Method II) over the following range :	
	1 mm to 1 m	0.5 mm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Qualitech Testing & Consultancy Limited
匯駿檢測及顧問有限公司
Flat G, 9/F, Block B, Universal Industrial Centre, 19-25 Shan Mei Street, Fo Tan, New Territories, Hong Kong
香港新界火炭山尾街 19-25 號宇宙工業中心 B 座 9 樓 G 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Length and related measurements (cont'd)		
- Length measuring instruments (cont'd)		
- External micrometer	Calibration for travel length in accordance with BS 870: 2008 App. A.6 and A.7 over the following range :	
	0.5 mm to 25 mm	2 µm
	above 25 mm to 50 mm	3 µm
	Calibration for length measurement error and variation in length measurement error in accordance with ISO 3611: 2023 (excluding cl. 5.7, 5.8 and 6) over the following range :	
	length measurement error: 0.5 mm to 50 mm	2 to 3 µm
	variation in length measurement error: 0.5 to 50 mm	2 to 3 µm
- Extensometer - Grade A with gauge length from 50 mm to 100 mm - Grade B with gauge length from 25 mm to 100 mm - Grade C with gauge length from 12 mm to 100 mm - Grade D with gauge length from 5 mm to 100 mm	On-site calibration for displacement using calibration rig in accordance with BS 3846: 1970 over the following range :	
	0.01 mm to 50 mm	0.6 µm
- Class 0.5, 1 or 2 with gauge length from 5 mm to 100 mm	On-site calibration for displacement using calibration rig in accordance with BS EN ISO 9513: 2002; or BS EN ISO 9513: 2012 over the following range:	
	0.01 mm to 50 mm	0.6 µm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Qualitech Testing & Consultancy Limited
匯駿檢測及顧問有限公司
Flat G, 9/F, Block B, Universal Industrial Centre, 19-25 Shan Mei Street, Fo Tan, New Territories, Hong Kong
香港新界火炭山尾街 19-25 號宇宙工業中心 B 座 9 樓 G 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related measurements (cont'd)		
- Length measuring instruments (cont'd)		
- Linear displacement indicator	Calibration for length in accordance with in-house method CAL-LVDT using micrometer calibrator over the following range :	
	0.001 mm to 25 mm	2 µm
	Calibration for length in accordance with in-house method CAL-LVDT using gauge blocks over the following ranges :	
	0.1 mm to 50 mm	2 µm
	above 50 mm to 100 mm	3 µm
- Linear variable displacement transducer (LVDT)	Calibration for length in accordance with in-house method CAL-LVDT using micrometer calibrator over the following range :	
	0.001 mm to 25 mm	2 µm
	Calibration for length in accordance with in-house method CAL-LVDT using gauge block over the following ranges :	
	0.1 mm to 50 mm	2 µm
	above 50 mm to 100 mm	3 µm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Qualitech Testing & Consultancy Limited
匯駿檢測及顧問有限公司
Flat G, 9/F, Block B, Universal Industrial Centre, 19-25 Shan Mei Street, Fo Tan, New Territories, Hong Kong
香港新界火炭山尾街 19-25 號宇宙工業中心 B 座 9 樓 G 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Length and related measurements (cont'd)		
- Length measuring instruments (cont'd)		
- Measuring tape	Calibration for length in accordance with in-house method CAL-MTAPE over the following range : 0.1 m to 100 m	0.4 mm to 8.0 mm
- Steel tape	Calibration for length in accordance with in-house method CAL-MTAPE over the following range : 0.1 m to 100 m	0.4 mm to 8.0 mm
- Rotational speed measurements		
- Tachometer	Calibration for rotational speed in accordance with in-house method CAL-TACHOMETER over the following range: 20 rpm to 100 rpm above 100 rpm to 1000 rpm above 1000 rpm to 2000 rpm	 0.03 rpm 0.2 rpm 2 rpm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Qualitech Testing & Consultancy Limited
匯駿檢測及顧問有限公司
Flat G, 9/F, Block B, Universal Industrial Centre, 19-25 Shan Mei Street, Fo Tan, New Territories, Hong Kong
香港新界火炭山尾街 19-25 號宇宙工業中心 B 座 9 樓 G 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related measurements		
- Force measurements		
- Compression testing machine	On-site calibration for compressive force using Grade 1.0 load cells and verification for grade in accordance with BS 1610: Part 1: 1985 (Amd. 6175) (constant true force method or indicated force method) over the following range :	
	0.2 kN to 0.4 kN	0.6% of reading
	above 0.4 kN to 3000 kN	0.3% of reading
- Concrete testing machine	On-site calibration for compressive force using Class 1.0 load cells and verification for class in accordance with BS EN 12390-4: 2000 Annex B; or CS1: 2010 App. D (constant true force method or indicated force method for above two standards) over the following range :	
	0.2 kN to 0.4 kN	0.6% of reading
	above 0.4 kN to 3000 kN	0.3% of reading
	On-site calibration for strain ratio by performing strain gauged column and proving test (stability test) in accordance with CS1 : 2010 App. D; BS EN 12390-4: 2000 Table 3 and Annex A; or BS EN 12390-4: 2019 Table 1 and Annex A over the following range of compressive force:	
	200 kN to 2000 kN	0.03 strain ratio
- Force measuring device (compression)	Calibration for compressive force in accordance with in-house method CAL-LOADCELL over the following ranges :	
	0.2 kN to 0.4 kN	0.6% of reading
	above 0.4 kN to 2 kN	0.3% of reading
	above 2 kN to 10 kN	0.5% of reading
	above 10 kN to 2000 kN	0.3% of reading

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Qualitech Testing & Consultancy Limited
匯駿檢測及顧問有限公司
Flat G, 9/F, Block B, Universal Industrial Centre, 19-25 Shan Mei Street, Fo Tan, New Territories, Hong Kong
香港新界火炭山尾街 19-25 號宇宙工業中心 B 座 9 樓 G 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related measurements (cont'd)		
- Force measurements (cont'd)		
- Impact testing machine	On-site indirect calibration for energy absorbed by breaking of Charpy V reference test piece in accordance with BS EN 10045-2: 1993 Cl. 6; or BS EN ISO 148-2: 2016 Cl. 7 over the following ranges :	
	1 J to 40 J	1.7 J at 21.1 J
	above 40 J to 220 J	11 J at 209 J
- Pull-off tester	Calibration for lifting force in accordance with in-house method CAL-POTESTER over the following ranges :	
	0.2 kN to 2 kN	5.6 N
	above 2 kN to 50 kN	10 N to 100 N
- Static uniaxial testing machine (compression mode)	On-site calibration for compressive force using Class 1.0 load cells and verification for class in accordance with BS EN ISO 7500-1: 2018; or BS EN ISO 7500-1: 2004 (Cor.1: 2008) (constant true force method or indicated force method for above two standards) over the following range :	
	0.2 kN to 0.4 kN	0.6% of reading
	above 0.4 kN to 3000 kN	0.3% of reading

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Qualitech Testing & Consultancy Limited
匯駿檢測及顧問有限公司
Flat G, 9/F, Block B, Universal Industrial Centre, 19-25 Shan Mei Street, Fo Tan, New Territories, Hong Kong
香港新界火炭山尾街 19-25 號宇宙工業中心 B 座 9 樓 G 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related measurements (cont'd)		
- Force measurements (cont'd)		
- Static uniaxial testing machine (tension mode)	On-site calibration for tension force using Class 1.0 load cells and verification for class in accordance with BS EN ISO 7500-1: 2018; or BS EN ISO 7500-1: 2004 (Cor.1: 2008) (constant true force method or indicated force method for above two standards) over the following range :	
	0.2 kN to 0.8 kN	0.6% of reading
	above 0.8 kN to 50 kN	0.3% of reading
- Universal testing machine (compression mode)	On-site calibration for compressive force using Class 1.0 load cells and verification for class in accordance with BS 1610: Part 1: 1985 (Amd. 6175); BS EN 12390-4: 2000 Annex B; or CS1: 2010 App. D (constant true force method or indicated force method for above three standards) over the following range :	
	0.2 kN to 0.4 kN	0.6% of reading
	above 0.4 kN to 3000 kN	0.3% of reading

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Qualitech Testing & Consultancy Limited
匯駿檢測及顧問有限公司
Flat G, 9/F, Block B, Universal Industrial Centre, 19-25 Shan Mei Street, Fo Tan, New Territories, Hong Kong
香港新界火炭山尾街 19-25 號宇宙工業中心 B 座 9 樓 G 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related measurements (cont'd)		
- Balance	Calibration for mass using following OIML Class standard weights (1) E2 weights from 1 mg to 1 g (2) E2 weights from 1 g to 200 g (3) F1 weights from 1 g to 60 kg in accordance with in-house method CAL-BALANCE over the following ranges :	
	1 mg to 1 g	0.2 mg
	above 1 g to 1 kg	0.2 mg to 1.7 mg
	above 1 kg to 6 kg	7 mg to 11 mg
	above 6 kg to 60 kg	0.07 g to 0.6 g
	On-site calibration for mass using following OIML Class standard weights (1) E2 weights from 1 mg to 1 g (2) E2 weights from 1 g to 200 g (3) F1 weights from 1 g to 60 kg in accordance with in-house method CAL-BALANCE over the following ranges :	
	1 mg to 1 g	0.2 mg
	above 1 g to 1 kg	0.2 mg to 1.7 mg
	above 1 kg to 6 kg	7 mg to 11 mg
	above 6 kg to 60 kg	0.07 g to 0.6 g

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Qualitech Testing & Consultancy Limited
匯駿檢測及顧問有限公司
Flat G, 9/F, Block B, Universal Industrial Centre, 19-25 Shan Mei Street, Fo Tan, New Territories, Hong Kong
香港新界火炭山尾街 19-25 號宇宙工業中心 B 座 9 樓 G 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related measurements (cont'd)		
- Weight (Standard values)	Calibration for mass by comparison with reference mass in accordance with in-house method CAL-WEIGHT at the following specific nominal values :	
	1 mg	0.2 mg
	2 mg	0.2 mg
	5 mg	0.2 mg
	10 mg	0.2 mg
	20 mg	0.2 mg
	50 mg	0.2 mg
	100 mg	0.2 mg
	200 mg	0.2 mg
	500 mg	0.2 mg
	1 g	0.2 mg
	2 g	0.2 mg
	5 g	0.2 mg
	10 g	0.2 mg
	20 g	0.2 mg
	50 g	0.2 mg
	100 g	0.2 mg
	200 g	0.2 mg
	500 g	2 mg
	1 kg	2 mg
	2 kg	20 mg
	5 kg	20 mg
	10 kg	3 g
	20 kg	3 g
	50 kg	3 g
- Weight (Non-standard values)	Calibration for mass by comparison with reference mass in accordance with in-house method CAL-WEIGHT over the following ranges :	
	1 mg to 200 g	0.2 mg to 0.8 mg
	above 200 g to 1 kg	1.0 mg to 4 mg
	above 1 kg to 6.2 kg	20 mg
	above 6.2 kg to 60 kg	3 g to 4 g

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Qualitech Testing & Consultancy Limited
匯駿檢測及顧問有限公司
Flat G, 9/F, Block B, Universal Industrial Centre, 19-25 Shan Mei Street, Fo Tan, New Territories, Hong Kong
香港新界火炭山尾街 19-25 號宇宙工業中心 B 座 9 樓 G 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related measurements (cont'd)		
- Hardness measurements		
- Hardness testing machine	On-site indirect verification for testing machine for Vickers hardness scales in accordance with BS EN ISO 6507-2: 2018 cl. 6; or ISO 6507-2: 2005 cl. 5 over the following ranges :	
	100 HV 5 to 700 HV 5	2.8 % of reading
	100 HV 10 to 700 HV 10	1.5 % of reading
	100 HV 30 to 900 HV 30	1.2 % of reading

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Qualitech Testing & Consultancy Limited
匯駿檢測及顧問有限公司
Flat G, 9/F, Block B, Universal Industrial Centre, 19-25 Shan Mei Street, Fo Tan, New Territories, Hong Kong
香港新界火炭山尾街 19-25 號宇宙工業中心 B 座 9 樓 G 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related measurements (cont'd)		
- Volume measurements		
- Volumetric glassware		
- Cylinder	Calibration for volume in accordance with in-house method CAL-VOL-LBW using the tables in BS EN ISO 4787: 2011 for temperature correction over the following ranges :	
	10 ml to 50 ml	0.23 ml
	above 50 ml to 100 ml	0.33 ml
	above 100 ml to 500 ml	1.1 ml
	above 500 ml to 1000 ml	1.8 ml
- Volumetric flask	Calibration of volume in accordance with in-house method CAL-VOL-LBW using the tables in BS EN ISO 4787: 2011 for temperature correction over the following ranges :	
	10 ml to 50 ml	0.12 ml
	above 50 ml to 100 ml	0.17 ml
	above 100 ml to 500 ml	0.6 ml
	above 500 ml to 1000 ml	0.9 ml
- Volumetric plasticware	Calibration for contained capacity in accordance with in-house method CAL-VOL-LBW over the following ranges	
	10 ml to 50 ml	0.12 ml
	above 50 ml to 100 ml	0.17 ml
	above 100 ml to 500 ml	0.6 ml
	above 500 ml to 1000 ml	0.9 ml

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Qualitech Testing & Consultancy Limited
匯駿檢測及顧問有限公司
Flat G, 9/F, Block B, Universal Industrial Centre, 19-25 Shan Mei Street, Fo Tan, New Territories, Hong Kong
香港新界火炭山尾街 19-25 號宇宙工業中心 B 座 9 樓 G 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Temperature measurements		
- Dial / analogue thermometer	Calibration for temperature in accordance with in-house method CAL-THERMOMETER over the following ranges :	
	-40 ℃ to 130 ℃	0.6 K
	above 130 ℃ to 320 ℃	6.0 K
- Digital thermometer	Calibration of temperature in accordance with in-house method CAL-THERMOMETER over the following ranges :	
	-40 ℃ to 130 ℃	0.3 K
	above 130 ℃ to 200 ℃	0.7 K
	above 200 ℃ to 320 ℃	1.4 K
- Liquid-in-glass thermometer (LIGT)	Calibration of temperature in accordance with in-house method CAL-THERMOMETER over the following ranges :	
	10 ℃ to 80 ℃	0.3 K
- Temperature recorder with sensor	Calibration of temperature in accordance with in-house method CAL-THERMOMETER over the following ranges :	
	10 ℃ to 80 ℃	0.5 K
- Digital thermometer with thermocouple	Calibration of temperature in accordance with in-house method CAL-THERMOMETER over the following ranges :	
	-40 ℃ to 130 ℃	0.3 K
	above 130 ℃ to 200 ℃	0.7 K
	above 200 ℃ to 320 ℃	1.4 K

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Qualitech Testing & Consultancy Limited
匯駿檢測及顧問有限公司
Flat E & F, 9/F, Block B, Universal Industrial Centre, 19-25 Shan Mei Street, Fo Tan, New Territories, Hong Kong
香港新界火炭山尾街 19-25 號宇宙工業中心 B 座 9 樓 E 及 F 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Adhesive	Pull-off test of repair mortar	BS 1881: Part 207: 1992 Cl. 8 In-house method BD-MORTAR-POT
	Pull-off test of tiles	Hong Kong Housing Authority Specification Library (2018) FIN5.TI50.8 Hong Kong Housing Authority Specification Library (2022) FIN5.TI50.9
Coating	Pull-off test of adhesion	ASTM D4541-02 Test Method A ASTM D7234-05
Concrete (diagnostic)	Carbonation test	BS EN 14630: 2006 Building Research Establishment Information Paper IP 6/81 Hong Kong Housing Authority Materials Testing Services (2024/2027) for Maintenance & Building Materials Specification Part D Cl. 4.3.1 (Method 2)
	Covermeter survey	BS 1881: Part 204: 1988 + Amd. 6201 Cl. 7.3
	Half-cell potential measurement	ASTM C876-09 (Method A & B for pre-wetting)
	Infrared thermography for detection of building surface defects	Hong Kong Concrete Institute TM1 Issue 2 (2022) + Amd. No. 1/2024
	Resistivity measurement	BS 1881: Part 201: 1986 Cl. 2.3
	Surface hardness measurement	BS 1881: Part 202: 1986 BS EN 12504-2: 2021
	Ultrasonic pulse velocity measurement	BS EN 12504-4: 2004

Qualitech Testing & Consultancy Limited
匯駿檢測及顧問有限公司
Flat E & F, 9/F, Block B, Universal Industrial Centre, 19-25 Shan Mei Street, Fo Tan, New Territories, Hong Kong
香港新界火炭山尾街 19-25 號宇宙工業中心 B 座 9 樓 E 及 F 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Foundation	Crosshole sonic logging test (SOLT)	ASTM D6760-14 ASTM D6760-16
	Pile integrity test (PIT)	ASTM D5882-16
	Pile dynamic test (PDA)	ASTM D4945-12 ASTM D4945-17
	Single hole sonic logging test (SOLT)	ASTM D6760-14 ASTM D6760-16
	Ultrasonic echo sounder test (UEST)	Hong Kong Concrete Institute TM3 Issue 2 (2024)
Foundation (geotechnical monitoring)	Inclination monitoring by inclinometer	In-house method FPT-IH-IM
	Monitoring ground movement using probe-type inclinometers	ASTM D6230-13
	Verticality check using inclinometer	In-house method FPT-IH-VC
	Vibration monitoring	In-house method FPT-IH-VIB
Metallic materials (non-destructive)	Ultrasonic test of H beams with parallel flanges and IPE beams (manual method)	BS EN 10306: 2002
	Ultrasonic test of steel flat product of thickness equal to or greater than 6 mm (reflection method)	BS EN 10160: 1999
Paint & varnish	Dry-film coating thickness	BS EN ISO 2808: 2007, BS 3900-C5: 2007 Method 6B (Wedge cut) Method 7C (Magnetic-induction) Method 7D (Eddy-current)
	Pull-off test of adhesion	BS EN ISO 4624: 2003, BS 3900-E10: 2003 Cl. 9.4.2
Rock	Point load strength index of rock by diametral and axial tests	ASTM D5731-16 International Society for Rock Mechanics (1985) Suggested method for determining point load strength

Qualitech Testing & Consultancy Limited
匯駿檢測及顧問有限公司
Flat E & F, 9/F, Block B, Universal Industrial Centre, 19-25 Shan Mei Street, Fo Tan, New Territories, Hong Kong
香港新界火炭山尾街 19-25 號宇宙工業中心 B 座 9 樓 E 及 F 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Structural fixings	Tensile proof load test of anchors, dowel bars, and channel inserts by incremental loading in the force range 1 kN – 600 kN	BS 5080: Part 1: 1993 Cl. 6, 7.1.1 & 7.1.3 with modifications
	Tensile proof load test of drilled-in anchors used for cantilevered structure/hanger/curtain wall remedial works by incremental loading in the force range 1 kN – 600 kN	Buildings Department PNAP APP-169 (Oct 2023) App. A
	Tensile proof load test of drilled-in anchors used for works other than cantilevered structure/ hanger/curtain wall remedial works in the force range 1 kN – 600 kN	Buildings Department PNAP APP-169 (Oct 2023) App. B
	Tensile proof load test for cementitious or polymer based grouted bolts or dowels or reinforcing bars works or/and steel T-bolts with cast-in channels in the force range 1 kN – 600 kN	Buildings Department PNAP APP-169 (Oct 2023) App. C
	Shear proof load test of anchors, dowel bars, and channel inserts by incremental loading in the force range 1 kN – 600 kN	BS 5080: Part 2: 1986 Cl. 7.1, 7.2.1 & 7.2.3 with modifications
	Shear proof load test of drilled-in anchors used for cantilevered structure/hanger/curtain wall remedial works by incremental loading in the force range 1 kN – 600 kN	Buildings Department PNAP APP-169 (Oct 2023) App. A
	Shear proof load test of drilled-in anchors used for works other than cantilevered structure/ hanger/curtain wall remedial works in the force range 1 kN – 600 kN	Buildings Department PNAP APP-169 (Oct 2023) App. B
	Shear proof load test for cementitious or polymer based grouted bolts or dowels or reinforcing bars works or/and steel T-bolts with cast-in channels in the force range 1 kN – 600 kN	Buildings Department PNAP APP-169 (Oct 2023) App. C

Qualitech Testing & Consultancy Limited
匯駿檢測及顧問有限公司
Flat E & F, 9/F, Block B, Universal Industrial Centre, 19-25 Shan Mei Street, Fo Tan, New Territories, Hong Kong
香港新界火炭山尾街 19-25 號宇宙工業中心 B 座 9 樓 E 及 F 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Welds (non-destructive)	Liquid penetrant test (Colour contrast method)	BS 6443: 1984 BS EN 571-1: 1997 BS EN ISO 3452-1: 2013 in conjunction with the following specification(s): BS 5135: 1984 Table 18 & 19 BS EN ISO 5817: 2014 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel (2011) (2023 Ed.) Table 14.3b Hong Kong International Airport General Material & Workmanship Specification (GMWS) Issue No. 5b (2019) Vol. 1 – Civil & Structural Works Section 22.6.22
	Magnetic particle test (Magnetic flow method colour contrast technique using permanent magnets, A.C. & D.C. yokes)	BS 6072: 1981 BS EN 1290: 1998 BS EN ISO 9934-1: 2001 BS EN ISO 9934-1: 2016 BS EN ISO 17638: 2009 BS EN ISO 17638: 2016 in conjunction with the following specification(s): BS 4515: Part 1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 BS EN ISO 5817: 2014 Table 1 BS EN ISO 23278: 2015 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel (2011) (2023 Ed.) Table 14.3b Hong Kong International Airport General Material & Workmanship Specification (GMWS) Issue No. 5b (2019) Vol. 1 – Civil & Structural Works Section 22.6.22

Qualitech Testing & Consultancy Limited
匯駿檢測及顧問有限公司
Flat E & F, 9/F, Block B, Universal Industrial Centre, 19-25 Shan Mei Street, Fo Tan, New Territories, Hong Kong
香港新界火炭山尾街 19-25 號宇宙工業中心 B 座 9 樓 E 及 F 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Welds (non-destructive) (cont'd)	Ultrasonic test (Butt welds in plates and pipes, 'T' joint welds, nozzle welds & node welds)	BS 3923: Part 1: 1986 (Level 1, 2A, 2B & 3) BS EN 1714: 1998 (Level A, B, & C) BS EN ISO 17640: 2010 (Level A, B, & C) BS EN ISO 17640: 2018 (Level A, B, & C) in conjunction with the following specification(s): BS 5135: 1984 Table 18 & 19 BS EN ISO 5817: 2014 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel (2011) (2023 Ed.) Table 14.3b Hong Kong International Airport General Material & Workmanship Specification (GMWS) Issue No. 5b (2019) Vol. 1 – Civil & Structural Works Section 22.6.22
	Visual examination	BS 5289: 1976 BS EN 970: 1997 BS EN ISO 17637: 2011 BS EN ISO 17637: 2016 in conjunction with the following specification(s): BS 4515: Part 1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 BS EN ISO 5817: 2014 Table 1 BS EN ISO 14555: 2017 Table A.5 & A.6 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel (2011) (2023 Ed.) Table 14.3b Hong Kong International Airport General Material & Workmanship Specification (GMWS) Issue No. 5b (2019) Vol. 1 – Civil & Structural Works Section 22.6.22

Qualitech Testing & Consultancy Limited
匯駿檢測及顧問有限公司
Flat E & F, 9/F, Block B, Universal Industrial Centre, 19-25 Shan Mei Street, Fo Tan, New Territories, Hong Kong
香港新界火炭山尾街 19-25 號宇宙工業中心 B 座 9 樓 E 及 F 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Welds (non-destructive) (cont'd)	Visual examination and bend test on stud connectors	<Visual examination as follows:> BS 5289: 1976 BS EN 970: 1997 BS EN ISO 17637: 2011 BS EN ISO 17637: 2016 <together with the following bend test method(s):> BS EN ISO 14555: 2017 Cl. 11.2, 11.3 (excluding Torque wrench method), 12.2 & 12.3 Buildings Department Code of Practice for the Structural Use of Steel (2011) Cl. 14.3.7.3 Buildings Department Code of Practice for the Structural Use of Steel (2011) (2023 Ed.) Cl. 14.3.7.3

Qualitech Testing & Consultancy Limited
匯駿檢測及顧問有限公司
Workshop 3, 1/F, Wah Wai Centre, 38-40 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 38-40 號華衛工貿中心 1 樓 3 號鋪

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Blocks and bricks	Bending strength of paving flags	BS 7263-1: 2001 Annex E
	Bending strength and breaking load of paving flags	BS EN 1339: 2003 + Corr. 1: 2006 Annex F
	Compressive strength of interlocking blocks	Hong Kong Housing Authority Specification Library (2018) EXT3.T120.8 – EXT3.T150.8 Hong Kong Housing Authority Specification Library (2022) EXT3.T120.9 – EXT3.T150.9
	Compressive strength of paving blocks	General Specification for Civil Engineering Works (2006) Vol. 1 App. 11.1 General Specification for Civil Engineering Works (2020) Vol. 1 App. 11.1
	Dimensions of clay and calcium silicate pavers	BS 6677: Part 1: 1986 App. C
	Dimension of clay pavers	BS EN 1344: 2002 Annex B
	Dimensions of natural stone setts	BS EN 1342: 2001 Annex A
	Dimensions of natural stone slabs	BS EN 1341: 2001 Annex A
	Dimensions of paving blocks	BS 6717: 2001 Annex B BS EN 1338: 2003 + Corr. 1: 2006 Annex C
	Dimensions of paving flags	BS 7263-1: 2001 Annex B BS EN 1339: 2003 + Corr. 1: 2006 Annex C
	Flexural strength of natural stone slabs	BS EN 1341: 2001 Cl. 4.3 BS EN 12372: 2006
	Transverse breaking load of clay and calcium silicate pavers	BS 6677: Part 1: 1986 App. D
	Transverse breaking load of clay pavers	BS EN 1344: 2002 Annex D

Qualitech Testing & Consultancy Limited
匯駿檢測及顧問有限公司
Workshop 3, 1/F, Wah Wai Centre, 38-40 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 38-40 號華衛工貿中心 1 樓 3 號鋪

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Blocks and bricks (cont'd)	Unpolished slip resistance value of natural stone setts	BS EN 1342: 2001 Annex C
	Unpolished slip resistance value of natural stone slabs	BS EN 1341: 2001 Annex D
	Unpolished slip/skid resistance value of clay pavers	BS EN 1344: 2002 Annex F
	Water absorption of masonry units, segmental pavers and flags (Cold water 24-hour immersion test)	AS/NZS 4456.14: 2003 + Amd. 1 & 2
Dimension stones	Absorption and bulk specific gravity	ASTM C97-02
	Compressive strength	ASTM C170-06
	Flexural strength	ASTM C880/C880M-09
	Strength of individual anchorages	ASTM C1354-96 (Reapproved 2004)

Qualitech Testing & Consultancy Limited
匯駿檢測及顧問有限公司
Workshop 3, 1/F, Wah Wai Centre, 38-40 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 38-40 號華衛工貿中心 1 樓 3 號鋪

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Concrete	Sample fresh concrete on site	CS1: 2010 Section 1
	Slump of fresh concrete	CS1: 2010 Section 2 Part I
	Flow table test	CS1: 2010 Section 2 Part IV
	Slump flow test	CS1: 2010 Section 2 Part V
	Stiffening time of fresh concrete	CS1: 2010 Section 3
	Density of compacted fresh concrete	CS1: 2010 Section 5
	Making test cubes from fresh concrete	CS1: 2010 Section 7
	Making test cylinders from fresh concrete	CS1: 2010 Section 9
	Curing test specimens	CS1: 2010 Section 10
	Compressive strength of concrete cubes in the force range 10 kN – 3000 kN	CS1: 2010 Section 12
	Obtaining core samples	CS1: 2010 Section 15
	Compressive strength of concrete cores in the force range 10 kN – 3000 kN	CS1: 2010 Section 15
	Density of hardened concrete	CS1: 2010 Section 16
	Concrete's ability to resist chloride ion penetration	AASHTO T277-07 ASTM C1202-05 ASTM C1202-12 CS1: 2010 Section 19
	Bleeding test	ASTM C232 / C232M-09 Method A
	Removal of concrete cover for reinforcement survey	Hong Kong Housing Authority Materials Testing Services (2024/2027) for Maintenance and Building Materials Specification Part D Cl. 4.2.1
	Temperature	BS 8500-2 2006 Cl. 5.4b
	Water absorption	BS 1881: Part 122: 1983

Qualitech Testing & Consultancy Limited
匯駿檢測及顧問有限公司
Workshop 3, 1/F, Wah Wai Centre, 38-40 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 38-40 號華衛工貿中心 1 樓 3 號鋪

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Grout	Bleeding and free expansion	General Specification for Civil Engineering Works (2006) Cl. 17.60 Hong Kong Housing Authority Specification Library (2018) PIL1.T320.8 Hong Kong Housing Authority Specification Library (2022) PIL1.T320.9
	Flow of grout for preplaced-aggregate concrete	ASTM C939-02 (flow cone method) ASTM C939/C393M-16a
Manhole covers / steps	Loading test of gully tops and manhole tops	BS EN 124-1: 2015 Cl. 7.2, 7.3, 8.1, 8.2 & 8.3, Annex A & B
	Mass determination and loading test of manhole covers, gully gratings and kerb overflow weirs	Hong Kong Housing Authority Specification Library (2022) DRA2.M650.9 & DRA2.T430.9 to DRA2.T490.9 General Specification for Civil Engineering Works (2006) Cl. 5.95 & App. 5.3 General Specification for Civil Engineering Works (2020) Cl. 5.95 & App. 5.3
Metallic materials	Bend test of carbon steel bars	CS2: 1995 Cl. 6.1 & 6.3
	Bend test of metallic materials	BS EN ISO 7438: 2016
	Bend test of reinforcing bars, wire rods and wires for reinforcement of concrete	BS EN ISO 15630-1: 2010 Cl. 6 BS EN ISO 15630-1: 2019 Cl. 6
	Bend test on welded intersection of welded fabric for concrete	BS EN ISO 15630-2: 2019 Cl. 6
	Bond property of steel reinforcing bars by surface geometry measurement	BS EN ISO 15630-1: 2010 Cl. 10, 11.2 & 11.3 BS EN ISO 15630-1: 2019 Cl. 10, 11.2 & 11.3 CS2: 2012 (Rev. 6) Cl. 6.1 & 6.7.2 in conjunction with the following specification(s): BS 4449: 2005 + A2: 2009 + A3: 2016 Cl. 7.4 & 9

Qualitech Testing & Consultancy Limited
匯駿檢測及顧問有限公司
Workshop 3, 1/F, Wah Wai Centre, 38-40 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 38-40 號華衛工貿中心 1 樓 3 號鋪

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Metallic materials (cont'd)	Charpy V-notch and U-notch impact test	BS EN 10045-1: 1990 BS EN ISO 148-1: 2016 in conjunction with the following specification(s): BS EN 1562: 2019 Cl. 9.4 & Table 3 BS EN 1563: 2018 Cl. 9.2 & Table 2 BS EN 10025-1: 2004 Cl. 10.2.2 BS EN 10025-2: 2004 Cl. 10.2 & Table 9 BS EN 10025-2: 2019 Cl. 10.2.2 & Table 8 BS EN 10025-3: 2004 Cl. 10.2, Table 6 & 7 BS EN 10025-3: 2019 Cl. 10.2.2, Table 5 & 6 BS EN 10025-4: 2004 Cl. 10.2, Table 6 & 7 BS EN 10025-4: 2019 Cl. 10.2.2, Table 5 & 6 BS EN 10025-5: 2004 Cl. 10.2 & Table 5 BS EN 10025-5: 2019 Cl. 10.2.2 & Table 5 BS EN 10025-6: 2004 + A1: 2009 Cl. 10.2, Table 6 & 7 BS EN 10025-6: 2019 Cl. 10.2.2, Table 5 & 6 BS EN 10088-2: 2005 Cl. 7.4.4 & Table 8, 10 & 11 BS EN 10088-2: 2014 Cl. 7.4.4 & Table 7, 8, 10 BS EN 10088-3: 2005 Cl. 7.4.4 & Table 9 to 12 & 14 – 17 BS EN 10088-3: 2014 Cl. 7.4.4 & Table 8, 9, 11 to 14, 16 & 17 BS EN 10210-1: 2006 Cl. 6.6.2, 9.2.3, Table A.3 & B.3 BS EN 10219-1: 2006 Cl. 6.7.2, 9.2.3, Table A.3, B.4 & B.5 BS EN ISO 898-1: 2009 Cl. 9.14.5 & Table 3 BS EN ISO 898-1: 2013 Cl. 9.14.5 & Table 3
	Mass per meter of steel reinforcing bars, wire rods and wires	BS 4449: 2005 + A2: 2009 + A3: 2016 Cl. 7.3 BS EN ISO 15630-1: 2010 Cl. 12 BS EN ISO 15630-1: 2019 Cl. 12 CS2: 2012 (Rev. 6) Cl. 6.1 & 6.2
	Mass per metre square, pitch and dimension of steel fabric for reinforcement of concrete	BS 4483: 2005 Cl. 7.3, 8.1.3.2 with BS 4449: 2005 + A2: 2009 Cl. 7.3 & BS EN ISO 15630-1: 2002 Cl. 12
	Proof load test of metallic covers in the force range 2.2 kN – 2900 kN	Buildings Department Code of Practice for the Structural Use of Steel (2005) Cl. 16.2.1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Cl. 16.2.1

Qualitech Testing & Consultancy Limited
匯駿檢測及顧問有限公司
Workshop 3, 1/F, Wah Wai Centre, 38-40 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 38-40 號華衛工貿中心 1 樓 3 號鋪

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Metallic materials (cont'd)	Proof load test of nut in the force range 0.2 kN – 2900 kN	BS 3692: 2014 Annex C.1 BS 4190: 2014 Annex A.1 BS EN ISO 898-2: 2012 Cl. 9.1
	Proof load test of stainless steel nut in the force range 0.2 kN – 2900 kN	BS EN ISO 898-2: 2012 Cl. 9.1 in conjunction with the following specification(s): BS EN ISO 3506-2: 2009 Cl. 6 BS EN ISO 3506-2: 2020 Cl.10.1
	Rebend test of carbon steel bars	CS2: 1995 Cl. 6.1 & 6.4
	Rebend test of reinforcing bars, wire rods, welded fabrics or cold reduced wires for reinforcement of concrete	CS2: 2012 (Rev. 6) Cl. 6.1 & 6.5 BS EN ISO 15630-1: 2010 Cl. 7 BS EN ISO 15630-1: 2019 Cl. 7 in conjunction with the following specification(s) BS 4449: 1997 Cl. 11.3 & App. E.1.6 BS 4449: 2005 + A2: 2009 + A3: 2016 Cl. 7.2.5 BS 4483: 2005 Cl. 7.2.5 & 8.1.3.2
	Tensile test of carbon steel bars in the force range 0.2 kN – 2900 kN	CS2: 1995 Cl. 6.1 & 6.2
	Tensile test of machined bolts and screws in the force range 0.2 kN – 2900 kN	BS EN ISO 6892-1: 2009 Cl. 10.4 Method B BS EN ISO 6892-1: 2016 Cl. 10.3.3 Method B BS EN ISO 6892-1: 2019 Cl. 10.3.3 Method B in conjunction with the following specification(s): BS EN ISO 898-1: 2009 Cl. 9.7 BS EN ISO 898-1: 2013 Cl. 9.7 BS 3692: 2014 Cl. 14 & 21 BS 4190: 2014 Cl. 15 & 21
	Tensile test of unmachined (finished) bolts and screws in the force range 0.2 kN – 2900 kN	BS EN ISO 6892-1: 2009 Cl. 10.4 Method B BS EN ISO 6892-1: 2016 Cl. 10.3.3 Method B BS EN ISO 6892-1: 2019 Cl. 10.3.3 Method B in conjunction with the following specification(s): BS EN ISO 898-1: 2009 Cl. 9.2 BS EN ISO 898-1: 2013 Cl. 9.2 BS 3692: 2014 Cl. 14 & 21 BS 4190: 2014 Cl. 15 & 21
	Proof load test of unmachined (finished) bolts and screws in the force range 0.2 kN – 2900 kN	BS EN ISO 898-1: 2009 Cl. 9.6 BS EN ISO 898-1: 2013 Cl. 9.6 in conjunction with the following specification(s): BS 3692: 2014 Cl. 14 & 21 BS 4190: 2014 Cl. 15 & 21

Qualitech Testing & Consultancy Limited
匯駿檢測及顧問有限公司
Workshop 3, 1/F, Wah Wai Centre, 38-40 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 38-40 號華衛工貿中心 1 樓 3 號鋪

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Metallic materials (cont'd)	Tensile test of metallic materials in the force range 0.2 kN – 2900 kN	BS EN 10002-1: 2001 BS EN ISO 6892-1: 2009 Cl. 10.4 method B BS EN ISO 6892-1: 2016 Cl. 10.3.3 method B BS EN ISO 6892-1: 2019 Cl. 10.3.3 method B in conjunction with the following specification(s): BS EN 1561: 1997 Cl. 9.1 & Table 1 BS EN 1561: 2011 Cl. 9.1 & Table 1 BS EN 1562: 2019 Cl. 9.1 & 9.2 Table 1 -3 BS EN 1563: 2018 Cl. 9.1 & Table 1 & 3 BS EN 10025-1: 2004 Cl. 7.3.1, 9.2.3.2 & 10.2.1 BS EN 10025-2: 2004 Cl. 10.2, Table 7 & 8 BS EN 10025-2: 2019 Cl.10.2.1, Table 6 & 7 BS EN 10025-3: 2004 Cl. 10.2 & Table 5 BS EN 10025-3: 2019 Cl. 10.2.1, Table 4 BS EN 10025-4: 2004 Cl. 10.2 & Table 5 BS EN 10025-4: 2019 Cl. 10.2.1, Table 4 BS EN 10025-5: 2004 Cl. 10.2 & Table 4 BS EN 10025-5: 2019 Cl. 10.2.1, Table 4 BS EN 10025-6: 2004 + A1: 2009 Cl. 10.2, Table 5 BS EN 10025-6: 2019 Cl. 10.2.1, Table 4 BS EN 10088-2: 2005 Cl. 7.4.2, Table 7 - 11 & Table 17 – 20 BS EN 10088-2: 2014 Cl. 7.4.2 & Table 11 & 17-20 BS EN 10088-3: 2005 Cl. 7.4.2 & Table 8 – 19 & 25 BS EN 10088-3: 2014 Cl. 7.4.2 & Table 8 - 19 & 25 BS EN 10164: 2004 Cl. 5.1 & 8.1 BS EN 10164: 2018 Cl. 6 & 9.1 BS EN 10210-1: 2006 Cl. 6.6.1, 9.2.1 & 9.2.2 BS EN 10219-1: 2006 Cl. 6.7.1, 9.2.1 & 9.2.2 BS EN 10248-1: 1996 Cl. 8.4.4 & Table 2 BS EN 10248-1: 2023 Cl. 10.2 & Table 3 BS EN 10255: 2004 + A1: 2007 Cl. 9.3 & Table 1

Qualitech Testing & Consultancy Limited
匯駿檢測及顧問有限公司
Workshop 3, 1/F, Wah Wai Centre, 38-40 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 38-40 號華衛工貿中心 1 樓 3 號鋪

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Metallic materials (cont'd)	Tensile test of reinforcing bars, wire rod, welded fabric or cold reduced wire for reinforcement of concrete in the force range 0.2 kN – 2900 kN	BS EN 10002-1: 2001 BS EN ISO 6892-1: 2009 Cl. 10.4 Method B BS EN ISO 6892-1: 2016 Cl. 10.3.3 Method B BS EN ISO 6892-1: 2019 Cl. 10.3.3 Method B in conjunction with the following specification(s) BS 4449: 1997 Cl. 11.1 & 11.2 BS 4449: 2005 + A2: 2009 + A3: 2016 Cl. 7.2.2, 7.2.3, 8.1.3.1 & 9 BS 4483: 2005 Cl. 7.2.2, 7.2.3, 8.1.3.1 & 9 BS EN ISO 15630-1: 2010 Cl. 5 BS EN ISO 15630-1: 2019 Cl. 5 BS EN ISO 15630-2: 2010 Cl. 5 BS EN ISO 15630-2: 2019 Cl. 5 CS2: 2012 (Rev. 6) Cl. 6.1 & 6.4
	Tensile test & slip/permanent elongation test of mechanical coupler in the force range 0.2 kN – 2900 kN	BS EN ISO 6892-1: 2009 Cl. 10.4 method B & In-house method ST-COUPLER-SLIP BS EN ISO 6892-1: 2016 Cl. 10.3.3 method B & In-house method ST-COUPLER-SLIP BS EN ISO 6892-1: 2019 Cl. 10.3.3 method B & In-house method ST-COUPLER-SLIP in conjunction with the following specification(s): BS 8110: Part 1: 1997 Cl. 3.12.8.16.2 Buildings Department Code of Practice for the Structural Use of Concrete (2004) Cl. 3.2.8.2 Buildings Department Code of Practice for the Structural Use of Concrete (2013) Cl. 3.2.8.3
	Vickers hardness test of metallic materials in scale range of HV0.01 to HV50	BS EN ISO 6507-1: 2005 BS EN ISO 6507-1: 2018 in conjunction with the following specification(s): BS 3692: 2001 Cl. C.4.3 & Table 9 BS 3692: 2014 Cl. C.4.4 & Table 10 BS 4190: 2001 Cl. A.2.4 & Table 14 BS 4190: 2014 Cl. A4.4 & Table 14 BS EN 10088-2: 2005 Cl. 7.4.5 & Table 8 BS EN 10088-2: 2014 Cl. 7.4.5 & Table 10 BS EN ISO 898-1: 2009 Cl. 9.9.3(a) & Table 3 BS EN ISO 898-1: 2013 Cl. 9.9.3(a) & Table 3 BS EN ISO 898-2: 2012 Cl. 9.2.2 & Table 6 BS EN ISO 3506-1: 2009 Cl. 7.2.7 & Table 3

Qualitech Testing & Consultancy Limited
匯駿檢測及顧問有限公司
Workshop 3, 1/F, Wah Wai Centre, 38-40 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 38-40 號華衛工貿中心 1 樓 3 號鋪

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Metallic materials (cont'd)	Vickers hardness test of metallic materials in scale range of HV1 to HV50	BS EN 23878: 1993 ISO 3878: 1983
	Weld shear force test on steel fabric for reinforcement of concrete in the force range 0.2 kN – 2900 kN	BS EN ISO 15630-2: 2019 Cl. 7 in conjunction with the following specification(s): BS 4483: 2005 Cl. 7.2.2 & 7.2.4
Structural fixings	Proof load test of spiders in the force range 2.2 kN – 2900 kN	Buildings Department Code of Practice for the Structural Use of Steel (2005) Cl. 16.2.1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Cl. 16.2.1
Welds (destructive)	Bend test on welds in metallic materials	BS EN 910: 1996 BS EN ISO 5173: 2010 + Al: 2011
	Bend test on welded reinforcement steel for concrete	BS EN ISO 17660-1: 2006 Cl. 14.4
	Fracture test on welds in metallic materials	BS EN 1320: 1997 BS EN ISO 9017: 2013
	Impact test on welds in metallic materials using V-notch and U-notch test pieces	BS EN 875: 1995 BS EN ISO 9016: 2011
	Longitudinal tensile test on weld metal in fusion welded joints in the force range 0.2 kN – 2900 kN	BS EN 876: 1995 BS EN ISO 5178: 2011
	Micro hardness test on welds in metallic materials in the scale of HV 0.1 to HV1	BS EN 1043-2: 1997 BS EN ISO 9015-2: 2011
	Macroscopic and microscopic examination on welds in metallic materials	BS EN 1321: 1997 BS EN ISO 17639: 2013
	Macro-etch test on welded reinforcement steel for concrete	BS 7123: 1989 Cl. 12.3.6
	Macro examination of arc stud weld	BS EN ISO 14555: 2017 Cl. 11.6

Qualitech Testing & Consultancy Limited
匯駿檢測及顧問有限公司
Workshop 3, 1/F, Wah Wai Centre, 38-40 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 38-40 號華衛工貿中心 1 樓 3 號鋪

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Welds (destructive) (cont'd)	Shear test on welded reinforcement steel for concrete in the force range 0.2 kN – 2900 kN	BS EN ISO 17660-1: 2006 Cl. 14.3
	Tensile test on welded reinforcement steel for concrete in the force range 0.2 kN – 2900 kN	BS EN ISO 17660-1: 2006 Cl. 14.2
	Transverse tensile test on weld in metallic materials in the force range 0.2 kN – 2900 kN	BS EN 895: 1995 BS EN ISO 4136: 2011 BS EN ISO 4136: 2012
	Tensile test on welded reinforcement steel for concrete in the force range 0.2 kN – 2900 kN	BS 7123: 1989 Cl. 12.3.5
	Tensile test of arc stud weld	BS EN ISO 14555: 2017 Cl. 11.4
	Vickers hardness test on welds in metallic materials in the scale of HV5 and HV10	BS EN 1043-1: 1996 BS EN ISO 9015-1: 2011

Qualitech Testing & Consultancy Limited
匯駿檢測及顧問有限公司
Flat E, 6/F, Block B, Universal Industrial Centre, 19-25 Shan Mei Street, Fo Tan, New Territories, Hong Kong
香港新界火炭山尾街 19-25 號宇宙工業中心 B 座 6 樓 E 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Coating	Mass per unit area of hot dip galvanized coating by gravimetric method	BS 729: 1971 (App. A - Stripping test) BS 2989: 1982 App. A BS 2989: 1991 App. A BS EN 10346: 2015 Annex A BS EN ISO 1460: 1995 in conjunction with the following specification(s) BS 2989: 1982 Cl. 3.4 BS 2989: 1991 Cl. 3.3 BS EN 10346: 2015 Cl. 8.5.5.1
Concrete (chemical analysis)	Cement and aggregate content (by CaO determination)	BS 1881: Part 124: 1988 Cl. 5.4 & 5.9 CS1: 2010 Section 21.6
	Aggregate/Cement ratio	BS 1881: Part 124: 1988 Cl. 5.9
	Chloride ion content	BS 1881: Part 124: 1988 Cl. 10.2 CS1: 2010 Section 21.10.2
	Sulphate content	BS 1881: Part 124: 1988 Cl. 10.3 CS1: 2010 Section 21.10.3
	Determination of chloride content in hardened concrete	BS EN 14629: 2007 (Method A)

Qualitech Testing & Consultancy Limited
匯駿檢測及顧問有限公司
Flat E, 6/F, Block B, Universal Industrial Centre, 19-25 Shan Mei Street, Fo Tan, New Territories, Hong Kong
香港新界火炭山尾街 19-25 號宇宙工業中心 B 座 6 樓 E 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Metallic materials (chemical analysis)	Elemental composition: -	
Copper and copper alloy	- Aluminium, Arsenic, Antimony, Cadmium, Chromium, Iron, Lead, Manganese, Nickel, Magnesium, Phosphorus, Silicon, Sulphur, Tin, Zinc	In-house method CHM-CU-MULTI (ICP-OES)
	- Copper	In-house method CHM-CU-CU (ICP-OES)
	- Silver	In-house method CHM-CU-AG (ICP-OES)

Qualitech Testing & Consultancy Limited
匯駿檢測及顧問有限公司
Flat E, 6/F, Block B, Universal Industrial Centre, 19-25 Shan Mei Street, Fo Tan, New Territories, Hong Kong
香港新界火炭山尾街 19-25 號宇宙工業中心 B 座 6 樓 E 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Iron (chemical analysis)	Total carbon content	BS EN ISO 15350: 2010 (Method A) ISO 15350: 2000 (Method A) GB/T 20123: 2006 In-house method CHM-STL(IN)-C&S (Carbon-Sulphur Analyser by Infrared Spectrometric Method)
	Sulfur content	BS EN ISO 15350: 2010 (Method A) ISO 15350: 2000 (Method A) GB/T 20123: 2006 In-house method CHM-STL(IN)-C&S (Carbon-Sulphur Analyser by Infrared Spectrometric Method)
	Nitrogen content	BS EN ISO 15351: 2010 ISO 15351: 1999 GB/T 20124: 2006
Steel (chemical analysis)	Total carbon content	BS EN ISO 15350: 2010 (Method A) ISO 15350: 2000 (Method A) GB/T 20123: 2006 In-house method CHM-STL(IN)-C&S (Carbon-Sulphur Analyser by Infrared Spectrometric Method)
	Sulphur content	BS EN ISO 15350: 2010 (Method A) ISO 15350: 2000 (Method A) GB/T 20123: 2006 In-house method CHM-STL(IN)-C&S (Carbon-Sulphur Analyser by Infrared Spectrometric Method)
	Nitrogen content	BS EN ISO 15351: 2010 ISO 15351: 1999 GB/T 20124: 2006
	Carbon Equivalent Value	CS2: 2012 Cl. 1.5.1 BS 4449: 2005 +A2: 2009 Cl. 7.1
	Niobium	In-house Method CHM-STL-NB (ICP-OES)

Qualitech Testing & Consultancy Limited
匯駿檢測及顧問有限公司
Flat E, 6/F, Block B, Universal Industrial Centre, 19-25 Shan Mei Street, Fo Tan, New Territories, Hong Kong
香港新界火炭山尾街 19-25 號宇宙工業中心 B 座 6 樓 E 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Steel (chemical analysis) (cont'd)	- Chromium, Copper, Manganese, Molybdenum, Nickel, Phosphorus, Silicon, Titanium, Vanadium	In-house Method CHM-STL-MULTI (ICP-OES)
Carbon and low alloy steel (chemical analysis)	- Aluminium	In-house Method CHM-STL-AL (ICP-OES)
	- Chromium, Copper, Manganese, Molybdenum, Nickel, Phosphorus, Silicon, Vanadium	In-house method CHM-STL-MULTI(II) (X-Ray Fluorescence Spectrometry)
Stainless steel (Grade 304, 316, 317 and 321) (chemical analysis)	- Chromium, Manganese, Molybdenum, Nickel, Phosphorus, Silicon	BS EN 10315: 2006
Steel reinforcing bar (Product analysis grade 250, 500B & 500C) (chemical analysis)	Carbon, Sulphur, Phosphorus, Nitrogen, Nitrogen binding element (Vanadium), Copper and Carbon Equivalent Value	CS2: 2012 Cl. 1.5.1 in conjunction with SCCT Technical Note No. 3 *Test procedure for compliance testing of total carbon and sulphur*: BS EN ISO 15350: 2010 (Method A) ISO 15350: 2000 (Method A) GB/T 20123: 2006 In-house method CHM-STL(IN)-C&S (Carbon-Sulphur Analyser by Infrared Spectrometric Method) *Test procedure for compliance testing of nitrogen*: BS EN ISO 15351: 2010 ISO 15351: 1999 GB/T 20124: 2006 *Test procedure for compliance testing of copper, phosphorous & nitrogen binding element (vanadium)*: In-house Method CHM-STL-MULTI (ICP-OES) In-house method CHM-STL-MULTI(II) (X-Ray Fluorescence Spectrometry) *Test procedure for compliance testing of carbon equivalent value*: CS2: 2012 Cl. 1.5.1

Qualitech Testing & Consultancy Limited
匯駿檢測及顧問有限公司
Flat N, 17/F, Block B, Universal Industrial Centre, 19-25 Shan Mei Street, Fo Tan, New Territories, Hong Kong
香港新界火炭山尾街 19-25 號宇宙工業中心 B 座 17 樓 N 室

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Tap water (chemical analysis)	Physical Examination: -	
	- Color	APHA 22e 2120 B
	- Conductivity	APHA 22e 2510 B
	- Turbidity	APHA 22e 2130 B
	Non-metallic constituents :-	
	- Chlorine (total residual)	APHA 22e 4500-Cl G
	- Chlorine (free residual)	APHA 22e 4500-Cl G
Tap water (≥ 1 NTU) (chemical analysis)	Trace metals (Total recoverable): - - Aluminium, Antimony, Arsenic, Boron, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Nickel, Selenium	In-house method CHM-WTR-METALS-ICPMS (ICP-MS)
Potable water (<1 NTU) (chemical analysis)	Trace metals (Total recoverable): - - Aluminium, Antimony, Arsenic, Boron, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Nickel, Selenium, Mercury	In-house method CHM-WTR-METALS-ICPMS (ICP-MS)
Water and Wastewater (chemical analysis)	Physical Examination: -	
	- pH value	APHA 22e 4500-H^+B
	- Total suspended solid dried at 103 to 105ºC	APHA 22e 2540D
	Organic Pollutants:-	
	- Chemical Oxygen Demand	APHA 22e 5220C

Qualitech Testing & Consultancy Limited
匯駿檢測及顧問有限公司
Flat N, 17/F, Block B, Universal Industrial Centre, 19-25 Shan Mei Street, Fo Tan, New Territories, Hong Kong
香港新界火炭山尾街 19-25 號宇宙工業中心 B 座 17 樓 N 室

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Water and Wastewater	Microbiological tests:-	
	- Total Coliform	DoE (1983) The Bacteriological Examination of Drinking Water Supplies, 1982 (Membrane Filtration Procedure: Section 7.8 and 7.9.4.1; Bacterial Confirmation: Section 7.9.4.3)
	- Faecal Coliform	DoE (1983) The Bacteriological Examination of Drinking Water Supplies, 1982 (Membrane Filtration Procedure: Section 7.8 and 7.9.4.2; Bacterial Confirmation: Section 7.7.6.3)
	- *E. coli*	DoE (1983) The Bacteriological Examination of Drinking Water Supplies, 1982 (Membrane Filtration Procedure: Section 7.8 and 7.9.4.2;Bacterial Confirmation: Section 7.9.4.4 and in-situ urease test)
	- Heterotrophic Plate count (Colony count at 35°C)	APHA 22e 9215 A & B

Qualitech Testing & Consultancy Limited
匯駿檢測及顧問有限公司
Flat E, 6/F, Block B, Universal Industrial Centre, 19-25 Shan Mei Street, Fo Tan, New Territories, Hong Kong
香港新界火炭山尾街 19-25 號宇宙工業中心 B 座 6 樓 E 室

Miscellaneous 雜類		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Diesel containing ≤ 25 % (w/w) FAME	Total sulfur	ASTM D2622-16 **<*Excluding the following*>** Cl. 5.2, Cl. 5.3 & Cl. 8.1
Diesel fuel containing ≤ 30 % (*V*/*V*) FAME	Total sulfur	ISO 20884:2019 (with modification) **<*Excluding the following*>** Cl. 5.3, Cl. 7 & Cl. 8.1 para. 2
Diesel fuel	Fatty acid methyl ester (FAME)	EN 14078: 2014 **<*Excluding the following*>** Cl. 6

Consumer Testing Laboratories (Far East) Ltd.

ADDRESS 地址		16/F, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong 香港新界葵涌和宜合道 63 號麗晶中心 B 座 16 樓
ENQUIRY 查詢	:	Mr Joseph SIN Wing-tat, Quality Engineering Manager 冼永達先生，質量工程經理
TELEPHONE 電話	:	2943 4692
FAX 傳真	:	2480 4758
E-MAIL 電郵	:	joseph.sin@ul.com
WEBSITE ADDRESS 網址	:	www.consumertesting.com
CLIENTELE 服務對象	:	Public 公眾

Consumer Testing Laboratories (Far East) Ltd.

ADDRESS **地址**	:	16/F, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong 香港新界葵涌和宜合道 63 號麗晶中心 B 座 16 樓
ACCREDITED TEST CATEGORY **認可測試類別**	:	Physical and Mechanical Testing 物理及機械測試 Textiles and Garments 紡織品及成衣 Toys and Children's Products 玩具及兒童產品

Consumer Testing Laboratories (Far East) Ltd.

16/F, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 16 樓

Physical and Mechanical Testing 物理及機械測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Spectacles testing:-	
Lenses in eyeglasses, sunglasses and fashion eyewear	- Impact-resistance test	21 CFR 801.410 (d)(2) ANSI Z80.3-2018 cl. 4.2 & 5.1

Consumer Testing Laboratories (Far East) Ltd.

16/F, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 16 樓

Textiles and Garments 紡織品及成衣		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Flammability test :-	
General Textiles and Garments	- 45 degree angle test	US 16 CFR Part 1610
Specific Products :-		
- Carpet and rugs	- Method for determining the surface flammability when exposed to a methenamine tablet	US 16 CFR Part 1630
- Children's sleepwear	- Vertical test	US 16 CFR Part 1615 US 16 CFR Part 1616

Consumer Testing Laboratories (Far East) Ltd.

16/F, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 16 樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
All toys	Physical and mechanical tests :-	ASTM F963-17 ASTM F963-23
	Safety requirements: - Small objects	4.6 < ***Excluding the following*** > 4.6.2
	- Accessible edges	4.7 < ***Excluding the following*** > 4.7.5
	- Accessible points	4.9
	- Pompoms	4.35
	Test method	8 < ***Excluding the following*** > 8.7.3 and 8.7.4

Consumer Testing Laboratories (Far East) Ltd.

16/F, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 B 座 16 樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Physical and mechanical tests :- (cont'd)	
Toys and other articles intended for use by children under 8 years of age	- Technical requirements for determining a sharp point in toys intended for use by children under 8 years of age	16 CFR 1500.48
	- Technical requirements for determining a sharp metal or glass edge in toys intended for use by children under 8 years of age	16 CFR 1500.49
	- Test methods for simulating use and abuse of toys intended for use by children - Impact test - Flexure test - Torque test - Tension test - Compression test	16 CFR 1500.50, 1500.51, 1500.52 and 1500.53
Toys and other articles intended for use by children under 3 years of age	- Method for identifying choking, aspiration, or ingestion hazards because of small parts	16 CFR 1501 in conjunction with test methods specified in 16 CFR 1500.51 or 16 CFR 1500.52 [excluding bite test to 1500.51(c) or 1500.52 (c)]
Infant rattles	- Method for identifying choking and/or suffocation hazards	16 CFR 1510 in conjunction with est methods specified in 16 CFR 1500.51 [excluding bite test to 1500.51(c)]
Pacifiers	- Requirement for pacifiers	16 CFR 1511

PARKnSHOP (HK) Limited – Safety Laboratory
百佳超級市場(香港)有限公司 – 安全實驗室

ADDRESS : 1/F, 6 Ka Fu Close, Sheung Shui, New Territories, Hong Kong
地址 香港新界上水嘉富坊六號一樓

ENQUIRY : Mr Jimmy TSANG Chun-kei, Laboratory Manager
查詢 曾俊錡先生，實驗室經理

TELEPHONE : 2679 2329
電話

FAX : 2670 7027
傳真

E-MAIL : JimmyTsa@asw.com.hk
電郵

CLIENTELE : Conditionally available for public testing
服務對象 有限度公眾服務

PARKnSHOP (HK) Limited – Safety Laboratory
百佳超級市場(香港)有限公司 – 安全實驗室

ADDRESS : 1/F, 6 Ka Fu Close, Sheung Shui, New Territories, Hong Kong
地址 香港新界上水嘉富坊六號一樓

ACCREDITED TEST CATEGORY : Food 食品
認可測試類別

PARKnSHOP (HK) Limited – Safety Laboratory
百佳超級市場(香港)有限公司 – 安全實驗室
1/F, 6 Ka Fu Close, Sheung Shui, New Territories, Hong Kong
香港新界上水嘉富坊六號一樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Trace metals:-	
General foodstuff	- Arsenic, Cadmium, Chromium, Lead, Mercury, Antimony, Tin	In-house method HM-MW (By ICP-MS)
	Pesticide residues: -	
Vegetables and Fruits **<*Excluding the following*>** Oily fruits	Organochlorine pesticides:- - Alpha-BHC (α-BHC) - Beta-BHC (β-BHC) - Gamma-BHC (γ-BHC) - Pentachloronitrobenzene - Pentachloroaniline - Heptachlor - Methyl pentachlorophenyl sulfide - Aldrin - Heptachlor epoxide - Oxychlordane - γ-Chlordane (trans-Chlordane) - α-Chlordane (cis-Chlordane) - Endosulfan I - Dieldrin - Endrin - Endosulfan II - p,p'-DDE (4,4'-DDE) - Procymidone	In-house Method P-QU (By GC/MSD)
Vegetables and Fruits **<*Excluding the following*>** Oily fruits	Organophosphorus pesticide: - - Chlorpyrifos	In-house Method P-QU (By GC/MSD)

PARKnSHOP (HK) Limited – Safety Laboratory
百佳超級市場(香港)有限公司 – 安全實驗室
1/F, 6 Ka Fu Close, Sheung Shui, New Territories, Hong Kong
香港新界上水嘉富坊六號一樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Pesticide residues:- (cont'd)	
Vegetables and Fruits **<*Excluding the following*>** Durian	- Acephate - Acetamiprid - Azoxystrobin - Bitertanol - Boscalid - Difenoconazole - Dimethoate - Diniconazole - Fenbuconazole - Fenpyroximate - Fludioxonil - Flutriafol - Mandipropamid - Metalaxyl - Methomyl - Metribuzin - Myclobutanil - Paclobutrazol - Tebufenozide - Tetraconazole - Trifloxystrobin	In-house method LCP-QU (Screening and Quantitation by LC-MS/MS)
Vegetables and Fruits **<*Excluding the following*>** Citrus Fruit and Durian	- Pyraclostrobin	In-house method LCP-QU (Screening and Quantitation by LC-MS/MS)

PARKnSHOP (HK) Limited – Safety Laboratory
百佳超級市場(香港)有限公司 – 安全實驗室
1/F, 6 Ka Fu Close, Sheung Shui, New Territories, Hong Kong
香港新界上水嘉富坊六號一樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Microbiological tests :-	
General foodstuff	- Aerobic plate count	US FDA Bacteriological Analytical Manual (BAM) Online (Jan. 2001) Chapter 3 (Conventional Plate Count Method)
General foodstuff (excluding dairy products)	- Coliform count	AOAC Official Methods 991.14 (2005) (By 3M Petrifilm)
	- *E. coli* count	AOAC Official Methods 991.14 (2005) (By 3M Petrifilm)

CAC (Hong Kong) Gems Laboratory Ltd.
中藝(香港)寶石鑑定所有限公司

ADDRESS : 2/F, Causeway Centre, 28 Harbour Road, Wanchai, Hong Kong
地址 香港灣仔港灣道 28 號灣景中心 2 樓

ENQUIRY : Mr CHAN Kin-chung, Chief Gemmologist
查詢 陳健忠先生，首席寶石鑒定師

TELEPHONE : 2153 3454
電話

FAX : -
傳真

E-MAIL : rexchan@cachk.com
電郵

CLIENTELE : Public testing services
服務對象 公眾測試服務

CAC (Hong Kong) Gems Laboratory Ltd.
中藝(香港)寶石鑑定所有限公司

ADDRESS **地址**	:	2/F, Causeway Centre, 28 Harbour Road, Wanchai, Hong Kong 香港灣仔港灣道 28 號灣景中心 2 樓
ACCREDITED TEST CATEGORY **認可測試類別**	:	Physical and Mechanical Testing 物理及機械測試

CAC (Hong Kong) Gems Laboratory Ltd.
中藝(香港)寶石鑑定所有限公司
2/F, Causeway Centre, 28 Harbour Road, Wanchai, Hong Kong
香港灣仔港灣道 28 號灣景中心 2 樓

Physical and Mechanical Testing 物理及機械測試			
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術	
Gemstone Testing (Fei Cui)	Shape and cut identification	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 1	.vs.
	Measurement of dimensions	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 2	.vs.
	Measurement of weight	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 3	.vs.
	Identification of transparency	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 4	.vs.
	Identification of colour	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 5	.vs.
	Polariscope examination	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 6	.vs.
	Determination of refractive index	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 7	.vs.
	Determination of specific gravity	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 8	.vs.
	Examination of fluorescence	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 9	.vs.

CAC (Hong Kong) Gems Laboratory Ltd.
中藝(香港)寶石鑑定所有限公司
2/F, Causeway Centre, 28 Harbour Road, Wanchai, Hong Kong
香港灣仔港灣道 28 號灣景中心 2 樓

Physical and Mechanical Testing 物理及機械測試			
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術	
Gemstone Testing (Fei Cui) (cont'd)	Chelsea colour filter examination	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 10	.vs.
	Spectroscopic examination	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 11	.vs.
	Magnification examination	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 12	.vs.
	Infrared spectrum examination	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 13	.vs.
	Identification of Fei Cui and its type	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited	.vs.

CAC (Hong Kong) Gems Laboratory Ltd.
中藝(香港)寶石鑑定所有限公司

Summary of Voluntary Suspension

.vs. denotes tests for which the accreditation has been voluntarily suspended with effect from 27 March 2025 (Notification Letter no. HOKLAS187-19).

Forte Testing and Consultants Company Limited
科華測試顧問有限公司

ADDRESS 地址	:	Room 31, 5/F., My Loft, 9 Hoi Wing Road, Tuen Mun, New Territories, Hong Kong 香港新界屯門海榮路九號五樓三十一室
ENQUIRY 查詢	:	Ms CHENG San-mei, Sammi, Laboratory Manager 鄭新美女士，實驗所經理
TELEPHONE 電話	:	2152 0638
FAX 傳真	:	3186 2737
E-MAIL 電郵	:	info@fortetesting.com
WEBSITE ADDRESS 網址	:	www.fortetesting.com
CLIENTELE 服務對象	:	Public 公眾

Forte Testing and Consultants Company Limited
科華測試顧問有限公司

ADDRESS
地址

Main Laboratory	:	Room 31, 5/F, My Loft, 9 Hoi Wing Road, Tuen Mun, New Territories, Hong Kong 香港新界屯門海榮路九號五樓三十一室
Test Location at Guangzhou	:	State Key Laboratory of Subtropical Building Science, North Campus of South China University of Technology, 381 Wushan Road, Tianhe District, Guangzhou Province, China 中國廣東省廣州市天河區五山路 381, 華南理工大學亞熱帶建築科學國家重點實驗室結構耐火實驗室
ACCREDITED TEST CATEGORY **認可測試類別**	:	Construction Materials 建築材料

Forte Testing and Consultants Company Limited
科華測試顧問有限公司
Room 31, 5/F, My Loft, 9 Hoi Wing Road, Tuen Mun, New Territories, Hong Kong
香港新界屯門海榮路九號五樓三十一室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Fire (Other)	Finishing fire retardant paint - Small combustion chamber test 飾面型防火塗料 - 小室燃燒法	GB 12441-2005 App. C (excluding Cl. C3.3)

Forte Testing and Consultants Company Limited
科華測試顧問有限公司
State Key Laboratory of Subtropical Building Science, North Campus of South China University of Technology, 381 Wushan Road, Tianhe District, Guangzhou Province, China
中國廣東省廣州市天河區五山路 381, 華南理工大學亞熱帶建築科學國家重點實驗室結構耐火實驗室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Fire (Fire Resistance Tests)	Fire resistance tests for non-loadbearing horizontal elements of building construction	BS 476: Part 20: 1987 and BS 476: Part 22: 1987
	Fire resistance tests for non-loadbearing vertical elements of building construction (for fire resistance tests up to 30 minutes)	ISO 834-1: 1999(E) + A1: 2012 (E) BS 476: Part 20: 1987 and BS 476: Part 22: 1987 AS 1530.4-2005 ASTM E119-09c NFPA 251-2006 GB/T 9978.1-2008
	Fire resistance tests for non-loadbearing vertical elements of building construction -general requirements, alternative and additional procedures (for fire resistance tests up to 30 minutes)	BS EN 1363-1: 1999 BS EN 1363-1: 2012 BS EN 1363-2: 1999 Cl. 7 & 8
	Fire resistance tests for glazed elements of building construction (for fire resistance tests up to 30 minutes)	ISO 3009: 2003(E) UL9-2009 NFPA 257-2007 GB/T 12513-2006
	Fire resistance tests for non-loadbearing vertical elements - Wall (for fire resistance tests up to 30 minutes)	BS EN 1364-1: 1999 (excl. Cl. 9.5) BS EN 1364-1: 2015
	Fire resistance tests for non-loadbearing wall and partition (for fire resistance tests up to 30 minutes)	UL 263-2007
	Fire resistance tests for fire doorsets and shutters assemblies (for fire resistance tests up to 30 minutes)	ISO 3008: 2007 (E) UL 10B-2009 UL 10C-2009 NFPA 252-2008 GB/T 7633-2008 SS 332: 2007 Cl. 4 & Annex E SS 333: 2012 Cl. 6 & Annex E
	Fire resistance tests for doors, shutters and openable windows (for fire resistance tests up to 30 minutes)	BS EN 1634-1: 2008 BS EN 1634-1: 2014 + A1: 2018 SS 332: 2018 SS 489: 2015 Section 5
Fire (Others)	Pre-test conditioning for doors, shutters and openable windows	BS EN 14600: 2005 Cl. 5.1 (excl. Cl. 5.1.1.5), Cl. 5.2 (excl. Cl. 5.2.2) and Cl. 5.3.2 BS EN 16034: 2014 Annex A

Promet Metals Testing Laboratory Limited
利保金屬檢測有限公司

ADDRESS : 2/F, Technology & Logistics Center, 16 Dai Fat Street, Tai Po Industrial Estate
地址 Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大發街十六號科技及物流中心二樓

ENQUIRY : Mr Alan CHAN Yuk-lun, Quality Manager
查詢 陳煜倫先生，品質經理

TELEPHONE : 2789 0282
電話

FAX : 3965 0391
傳真

E-MAIL : achan@leekeegroup.com
電郵

WEBSITE ADDRESS : www.leekeegroup.com/promet
網址

CLIENTELE : Public
服務對象 公眾

Promet Metals Testing Laboratory Limited
利保金屬檢測有限公司

ADDRESS **地址**	:	2/F, Technology & Logistics Center, 16 Dai Fat Street, Tai Po Industrial Estate Tai Po, New Territories, Hong Kong 香港新界大埔工業邨大發街十六號科技及物流中心二樓
ACCREDITED TEST CATEGORY **認可測試類別**	:	Chemical Testing 化學測試 Construction Materials 建築材料 Environmental Testing 環境測試

Promet Metals Testing Laboratory Limited
利保金屬檢測有限公司

2/F, Technology & Logistics Center, 16 Dai Fat Street, Tai Po Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大發街十六號科技及物流中心二樓

Chemical Testing 化學測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Metals and Metallic alloys :-	Elemental Composition :-	
- Aluminum	- Copper - Iron - Lead - Magnesium - Manganese - Nickel - Silicon - Titanium - Zinc - Vanadium - Chromium - Tin	GB/T 7999-2007
- Aluminum alloys	- Copper - Iron - Lead - Magnesium - Manganese - Nickel - Silicon - Tin - Titanium - Zinc	GB/T 7999-2007
- Zinc	- Aluminum - Copper - Iron - Lead - Tin - Cadmium	In-house method TP020 (ICP-OES)
- Zinc alloys	- Aluminum - Magnesium - Cadmium - Tin - Copper - Iron - Lead	BS EN ISO 3815-1:2005 (Zn-60-M)

Promet Metals Testing Laboratory Limited
利保金屬檢測有限公司

2/F, Technology & Logistics Center, 16 Dai Fat Street, Tai Po Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大發街十六號科技及物流中心二樓

Chemical Testing 化學測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Metals and Metallic alloys :- (cont'd)	Elemental Composition :- (cont'd)	
- Carbon steel (250, 460, 500B, 500C, 43C (hollow section), 43D (hollow section), and 43EE (hollow section))	- Carbon - Sulfur - Phosphorus - Nitrogen - Copper - Manganese - Chromium - Molybdenum - Vanadium - Nickel - Silicon	In-house method TP008 (Spark OES)
- Carbon steel	- Phosphorus - Copper - Manganese - Chromium - Molybdenum - Vanadium - Nickel - Silicon	In-house method TP034 (ICP-OES)
	- Carbon - Sulfur	In-house method TP015 (Carbon Sulfur Analyzer)
	- Nitrogen	In-house method TP016 (Nitrogen Analyzer)
- Carbon steel (250, 460, 500B and 500C)	Carbon equivalent value	In-house method TP019 (by calculation)

Promet Metals Testing Laboratory Limited
利保金屬檢測有限公司

2/F, Technology & Logistics Center, 16 Dai Fat Street, Tai Po Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大發街十六號科技及物流中心二樓

Chemical Testing 化學測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Metals and Metallic alloys :- (cont'd)	Elemental Composition :- (cont'd)	
- Stainless steel (201, 304, 304L, 310, 316, 316L, 430 and 431)	- Carbon - Silicon - Manganese - Phosphorus - Sulfur - Nickel - Chromium - Molybdenum - Copper - Nitrogen	In-house method TP007 (Spark OES)
- Stainless steel	- Silicon - Manganese - Phosphorus - Nickel - Chromium - Molybdenum	In-house method TP035 (ICP-OES)
	- Carbon - Sulfur	In-house method TP036 (Carbon Sulfur Analyzer)
	- Nitrogen	In-house method TP037 (Nitrogen Analyzer)

Promet Metals Testing Laboratory Limited
利保金屬檢測有限公司

2/F, Technology & Logistics Center, 16 Dai Fat Street, Tai Po Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大發街十六號科技及物流中心二樓

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Steel (chemical analysis) :-	Elemental Composition :-	
- Carbon steel (250, 460, 500B, 500C, 43C (hollow section), 43D (hollow section), and 43EE (hollow section))	- Carbon - Sulfur - Phosphorus - Nitrogen - Copper - Manganese - Chromium - Molybdenum - Vanadium - Nickel - Silicon	In-house method TP008 (Spark OES)
- Carbon steel	- Phosphorus - Copper - Manganese - Chromium - Molybdenum - Vanadium - Nickel - Silicon	In-house method TP034 (ICP-OES)
	- Carbon - Sulfur	In-house method TP015 (Carbon Sulfur Analyzer)
	- Nitrogen	In-house method TP016 (Nitrogen Analyzer)
- Carbon steel (250, 460, 500B and 500C)	Carbon equivalent value	In-house method TP019 (by calculation)

Promet Metals Testing Laboratory Limited
利保金屬檢測有限公司

2/F, Technology & Logistics Center, 16 Dai Fat Street, Tai Po Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大發街十六號科技及物流中心二樓

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Steel (chemical analysis) :- (cont'd)	Elemental Composition :- (cont'd)	
- Stainless steel (201, 304, 304L, 310, 316, 316L, 430 and 431)	- Carbon - Silicon - Manganese - Phosphorus - Sulfur - Nickel - Chromium - Molybdenum - Copper - Nitrogen	In-house method TP007 (Spark OES)
- Stainless steel	- Silicon - Manganese - Phosphorus - Nickel - Chromium - Molybdenum	In-house method TP035 (ICP-OES)
	- Carbon - Sulfur	In-house method TP036 (Carbon Sulfur Analyzer)
	- Nitrogen	In-house method TP037 (Nitrogen Analyzer)
Solder alloy (chemical analysis) :-	Elemental Composition :-	
- Tin based lead-free alloy (in form of wire or ribbon)	- Lead	In-house Method TP039 (ICP-OES)

Promet Metals Testing Laboratory Limited
利保金屬檢測有限公司

2/F, Technology & Logistics Center, 16 Dai Fat Street, Tai Po Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大發街十六號科技及物流中心二樓

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Metallic materials	Bond property of steel reinforcing bars by surface geometry measurement	BS EN ISO 15630-1: 2002 Cl. 10, 11.2 & 11.3 CS2: 2012 (Rev. 5) Cl. 6.1 & 6.7 in conjunction with the following specification(s): BS 4449: 2005 + A3: 2016 Cl. 7.4 & 9 BS 4482: 2005 + Amd. 1: 2007 Cl. 7.4.2
	Mass per metre of steel reinforcing bars, wire rods or wire	BS EN ISO 15630-1: 2019 Cl. 12 CS2: 2012 (Rev. 5) Cl. 6.1 & 6.2 in conjunction with the following specification(s): BS 4449: 2005 + A2: 2009 + A3: 2016 Cl. 7.2.2, 7.3 & 9 BS 4482: 2005 + Amd. 1: 2007 Cl. 7.3 & 9
	Rebend test of steel reinforcing bars, wire rods or cold reduced wires for reinforcement of concrete	BS EN ISO 15630-1: 2019 Cl. 7 CS2: 2012 (Rev. 5) Cl. 6.1 & 6.5 in conjunction with the following specification(s): BS 4449: 2005 + A2: 2009 + A3: 2016 Cl. 7.2.5 & 9 BS 4482: 2005 + Amd. 1: 2007 Cl. 7.2.4 & 9
	Tensile test of reinforcing bars, wire rods or cold reduced wires for reinforcement of concrete in the force range 20 kN – 2000 kN	BS EN ISO 6892-1: 2019 Cl. 10.3.3 Method B in conjunction with the following specification(s): BS 4449: 2005 + A2: 2009 + A3: 2016 Cl. 7.2.2, 7.2.3, 8.1.3.1 & 9 BS 4482: 2005 + Amd. 1: 2007 Cl. 8.1.3.1 & 9 CS2: 2012 (Rev.5) Cl. 6.1 & 6.4

Promet Metals Testing Laboratory Limited
利保金屬檢測有限公司

2/F, Technology & Logistics Center, 16 Dai Fat Street, Tai Po Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大發街十六號科技及物流中心二樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Water and Wastewater	Physical Examination :-	
	- pH Value	APHA 23e 4500 H^+ B
	- Turbidity	APHA 23e 2130 B (Nephelometric Method)
	- Conductivity	APHA 23e 2510 B
	- Colour	APHA 23e 2120 B (Visual Comparison)
	- Total Solids	APHA 23e 2540 B
	- Total Dissolved Solids	APHA 23e 2540 C
	- Total Suspended Solids (dried at 103-105℃)	APHA 23e 2540 D
	- Total alkalinity	APHA 23e 2320 B (Indicator method)
	- Total Hardness as $CaCO_3$	APHA 23e 2340 B (By calculation)
	Non-metallic Constituents: -	
	- Residual Free Chlorine	In house method TP043 (DPD Colorimetric Method)
	- Chloride content	APHA 23e 4500-Cl^- B

Promet Metals Testing Laboratory Limited
利保金屬檢測有限公司

2/F, Technology & Logistics Center, 16 Dai Fat Street, Tai Po Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大發街十六號科技及物流中心二樓

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Water and Wastewater	- Trace Metals :-	
	- Antimony - Chromium - Cadmium - Copper - Lead - Nickel - Iron - Aluminum - Arsenic - Barium - Beryllium - Boron - Cobalt - Manganese - Mercury - Molybdenum - Selenium - Silver - Strontium - Thallium - Tin - Titanium - Vanadium - Zinc	In-house Method TP047 (ICP-MS)
	- Aluminum	In house method TP055 ICP-OES)
	- Calcium - Magnesium - Sodium - Potassium	In house method TP056 ICP-OES)

Promet Metals Testing Laboratory Limited
利保金屬檢測有限公司

2/F, Technology & Logistics Center, 16 Dai Fat Street, Tai Po Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大發街十六號科技及物流中心二樓

Environmental Testing 環境測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Water and Wastewater	Microbiological tests: -	
	- Heterotrophic plate count	APHA 23ed 9215A and 9215B (Pour plate method at 35 ℃)
	- Coliform count	DoE (1983) The Bacteriological Examination of Drinking Water Supplies 1982 (Membrane Filtration Procedure: Sections 7.8, 7.9.4.1; Bacterial Confirmation: Section 7.9.4.3)
	- Faecal coliform	DoE (1983) The Bacteriological Examination of Drinking Water Supplies 1982 (Membrane Filtration Procedure: Sections 7.8, 7.9.4.2; Bacterial Confirmation: Section 7.7.6.3)
	- E. coli	DoE (1983) The Bacteriological Examination of Drinking Water Supplies 1982, Membrane Filtration Procedure: Sections 7.8, 7.9.4.2; Bacterial Confirmation: 7.9.4.4
	- E. coli	DoE (1983) The Bacteriological Examination of Drinking Water Supplies 1982, Membrane Filtration Procedure: Sections 7.8, 7.9.4.2; Bacterial Confirmation: in-situ urease test
	- Enumeration of Legionella including Legionella pneumophilia	ISO11731:2017 (Direct plating method)
Drinking Water, Treated Bathing Water, Water for Human Use and Consumption	- Enumeration of Legionella including Legionella pneumophilia	ISO11731:2017 (Direct membrane filtration method)
Water, Wastewater, and Cooling Tower Water	- Enumeration of Legionella including Legionella pneumophilia	AS3896:2017

Promet Metals Testing Laboratory Limited
利保金屬檢測有限公司

2/F, Technology & Logistics Center, 16 Dai Fat Street, Tai Po Industrial Estate, Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大發街十六號科技及物流中心二樓

Environmental Testing 環境測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Marine water	Microbial indicators :-	
	- E. coli	DoE (1983) The Bacteriological Examination of Drinking Water Supplies 1982, Membrane Filtration Procedure: Sections 7.8, 7.9.4.2; Bacterial Confirmation: in-situ urease test Environmental Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3 Environmental Protection Department, HK
	- Faecal Coliforms	Environmental Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3 Environmental Protection Department, HK

Ecospace Limited – Laboratory
衡力化學廢料處理有限公司 - 實驗室

ADDRESS 地址	:	51 Tsing Yi Road South, Tsing Yi Island, New Territories, Hong Kong 香港新界青衣島青衣南路 51 號
ENQUIRY 查詢	:	Mr LO Kin Chung, Francis, Laboratory Manager 羅建忠先生, 實驗室經理
TELEPHONE 電話	:	9209 8056
FAX 傳真	:	2434 6523
E-MAIL 電郵	:	francis.lo@veolia.com
WEBSITE ADDRESS 網址	:	
CLIENTELE 服務對象	:	In-house laboratory, normally not available for public testing 內部實驗室，通常只提供內部服務

Ecospace Limited – Laboratory
衡力化學廢料處理有限公司 – 實驗室

ADDRESS **地址**	:	51 Tsing Yi Road South, Tsing Yi Island, New Territories, Hong Kong 香港新界青衣島青衣南路 51 號
ACCREDITED TEST CATEGORY **認可測試類別**	:	Environmental Testing 環境測試

Ecospace Limited – Laboratory
衡力化學廢料處理有限公司 – 實驗室
51 Tsing Yi Road South, Tsing Yi Island, New Territories, Hong Kong
香港新界青衣島青衣南路 51 號

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Stack Air Emission trapped in Sampling Train	Trace metals :-	
	- Antimony, Arsenic, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Nickel, Thallium, Vanadium	In-house Method SDP 3222 (ICP-MS)
	- Phosphorus	In-house Method SDP 3222 (ICP-OES)
	- Mercury	In-house Method SDP 3222 (Cold Vapour AAS)

Ecospace Limited – Laboratory
衡力化學廢料處理有限公司 – 實驗室
51 Tsing Yi Road South, Tsing Yi Island, New Territories, Hong Kong
香港新界青衣島青衣南路 51 號

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Wastewater	Physical Examination :-	
	- pH Value	In-house Method SDP 3525 (Electrode)
	Organic Pollutants :-	
	- Phenols	APHA 23e 5530 B & C
	- Chemical Oxygen Demand	APHA 24e 5220 C
	- Total Organic Carbon	In-house Method SDP 3570 (Combustion catalytic oxidation method)
	- Oil and Grease	In-house method SDP 3565 (Gravimetric)
	- Anionic Surfactants	BS EN 903: 1994 ***<Excluding the following>*** Cl. 6 (Sampling)
	- Non-ionic Surfactants (as NP 10)	BS 6068: Section 2.24: 1986 (Spectrometric Method) ***<Excluding the following>*** Cl. 7 (Sampling), 8.4, 8.5, 8.6, 9.1
	- Pyrene, Benzo(a)pyrene	In-house Method SDP 3305 (GC/MS)
	- Organochlorine Pesticides Alpha, Beta, Gamma, and Delta-BHC, Aldrin, 4,4'-DDT, Heptachlor, Heptachlor epoxide, Endosulfan I, Endosulfan II, 4, 4 - DDE, 4, 4 - DDD, Dieldrin, Endrin, Endrin aldehyde, Endrin Ketone, Methoxychlor	In-house Method SDP 3315 (GC/ECD)

Ecospace Limited – Laboratory
衡力化學廢料處理有限公司 – 實驗室
51 Tsing Yi Road South, Tsing Yi Island, New Territories, Hong Kong
香港新界青衣島青衣南路 51 號

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Wastewater (cont'd)	Trace Metals :- - Barium, Boron, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Nickel, Silver, Tin and Zinc	In-house Method SDP 3229 (ICP-OES)
	- Arsenic, Tin	In-house Method SDP 3229 (Electro-thermal AAS-GFAA)
	- Arsenic, Tin	In-house Method SDP 3231 (ICP-MS)
	Non-metallic Constituents :-	
	- Chloride, Nitrate, Sulfate	USEPA SW846 Method 9056A, Revision 1, 2007
	- Sulfide	APHA 24e 4500-S^{2-} D ***<Excluding the following>*** Cl. 3.b.1
	- Nitrogen (Nitrite)	In-house Method SDP 3596 (Colorimetric)
	- Total residual chlorine	In-house Method SDP 3551 (Colorimetric)

Ecospace Limited – Laboratory
衡力化學廢料處理有限公司 – 實驗室
51 Tsing Yi Road South, Tsing Yi Island, New Territories, Hong Kong
香港新界青衣島青衣南路 51 號

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Organic Solvents and oils	- Apparent specific gravity	In-house Method SDP 3522 (Gravimetric)
	- Flash Point	BS EN ISO 13736: 2021 + A1: 2022 ***<Excluding the following>*** Cl. 8.1
	- Viscosity for fuel oil	In-house Method SDP 3546 (Rotational viscometer)
Liquid wastes	- Mercury	In-house Method SDP 3225 (Cold Vapour)
Solid and semi-solid wastes	- Mercury	In-house Method SDP 3223 (Cold Vapour)
Solid wastes	Trace metals :-	
	- Aluminum, Barium, Boron, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Nickel, Silver, Sodium, Tin, Zinc	In-house Method SDP 3201 (ICP-OES)
	- Arsenic	In-house Method SDP 3201 (ICP-MS)
	TCLP Metals : (Toxicity Characteristic Leaching Procedures)	
	- Extraction procedure	USEPA SW-846 Method 1311
	- Cadmium, Chromium, Copper, Iron, Lead, Nickel and Zinc	In-house Method SDP 3210 (ICP-OES)
	- Mercury	In-house Method SDP 3210 (Cold Vapour)

Water Supplies Department – New Territories West Regional Laboratory
水務署 – 新界西區化驗室

ADDRESS 地址	:	Tuen Mun Water Treatment Works, Fu Tei Road, Castle Peak Road - Lingnan, Tuen Mun, New Territories, Hong Kong 香港新界屯門青山公路 – 嶺南段富地路屯門濾水廠
ENQUIRY 查詢	:	Mr CHOY Tak-yip, Chief Waterworks Chemist 蔡德業先生，總水務化驗師
TELEPHONE 電話	:	2829 4443
FAX 傳真	:	2824 0578
E-MAIL 電郵	:	wsdinfo@wsd.gov.hk
WEBSITE ADDRESS 網址	:	http://www.wsd.gov.hk
CLIENTELE 服務對象	:	Government departments, normally not available for public testing 通常只服務政府部門

Water Supplies Department – New Territories West Regional Laboratory
水務署 – 新界西區化驗室

ADDRESS **地址**	:	Tuen Mun Water Treatment Works, Fu Tei Road, Castle Peak Road - Lingnan, Tuen Mun, New Territories, Hong Kong 香港新界屯門青山公路 – 嶺南段富地路屯門濾水廠
ACCREDITED TEST CATEGORY **認可測試類別**	:	Environmental Testing 環境測試

Water Supplies Department – New Territories West Regional Laboratory
水務署 – 新界西區化驗室
Tuen Mun Water Treatment Works, Fu Tei Road, Castle Peak Road - Lingnan, Tuen Mun, New Territories, Hong Kong
香港新界屯門青山公路 - 嶺南段富地路屯門濾水廠

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Drinking Water	Microbial indicators:- - Total coliforms - *E. coli*	The Microbiology of Drinking Water (2002), Environment Agency, England Part 4A The enumeration of coliform bacteria and *Escherichia coli* by a two membrane filtration technique

Leading Edge Construction Materials Testing Company Limited
領鋒建材檢測有限公司

ADDRESS 地址	:	Room 22, 13/F., Speedy Industrial Building, 114 How Ming Street, Kwun Tong, Hong Kong 香港觀塘巧明街 114 號迅達工業大廈 13 樓 22 室
ENQUIRY 查詢	:	Mr TSANG Hin-hang, Quality Manager 曾顯珩先生，質管經理
TELEPHONE 電話	:	9227 2323 / 3705 3591
FAX 傳真	:	3705 2074
E-MAIL 電郵	:	info@le-testlab.com / eric.tsang@le-testlab.com
WEBSITE ADDRESS 網址	:	www.le-testlab.com
CLIENTELE 服務對象	:	Public 公眾

Leading Edge Construction Materials Testing Company Limited
领鋒建材檢测有限公司

ADDRESS **地址**	:	Room 21, 13/F., Speedy Industrial Building, 114 How Ming Street, Kwun Tong, Hong Kong 香港觀塘巧明街 114 號迅達工業大廈 13 樓 21 室
TEST LOCATION	:	Testing Center in Asia Aluminum Industrial City, New & High-tech Industrial Development Zone of Dawang, Zhaoqing City, Guangdong Province, China 中國廣東省肇慶高新區亞洲鋁業工業城鋁制品實驗中心
ACCREDITED TEST CATEGORY **認可測試類別**	:	Construction Materials 建築材料

Leading Edge Construction Materials Testing Company Limited
領鋒建材檢測有限公司
Room 21, 13/F., Speedy Industrial Building, 114 How Ming Street, Kwun Tong, Kowloon, Hong Kong
香港觀塘巧明街 114 號迅達工業大廈 13 樓 21 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Structural fixings	Tensile proof load test of drilled-in anchors used for works other than cantilevered structure/hanger/curtain wall remedial works in the force range 5 kN – 100 kN	Buildings Department PNAP APP-169 (Oct 2023) App. B

Leading Edge Construction Materials Testing Company Limited
领鋒建材檢測有限公司
Testing Center in Asia Aluminum Industrial City, New & High-tech Industrial Development Zone of Dawang, Zhaoqing City, Guangdong Province, China
中國廣東省肇慶高新區亞洲鋁業工業城鋁制品實驗中心

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Curtain Wall	Air leakage rate	ASTM E283-04 ASTM E283/E283M-19 AS/NZS 4284: 2008 Cl. 8.4 BS EN 12153: 2000
	Cyclic safety test for curtain wall system	Buildings Department APP-37 (Dec 2010) App. B Buildings Department Code of Practice for Structural Use of Glass (2018) Table 8.1
	Static test to seismic and wind interstory drifts	AAMA 501.4: 2009 AS/NZS 4284: 2008 Cl. 8.9
	Structural performance by uniform static air pressure difference	ASTM E330-02 ASTM E330/E330M-14 (Reapproved 2021) AS/NZS 4284: 2008 Cl. 8.2, 8.3 and 8.8 BS EN 12179: 2000
	Thermal cycling of exterior walls	AAMA 501.5: 2007
	Water penetration by cyclic static air pressure difference	ASTM E547-00 ASTM E547-00 (Reapproved 2016) AS/NZS 4284: 2008 Cl. 8.6
	Water penetration by dynamic pressure	AAMA 501.1: 2005 AAMA 501.1: 2017 BS EN 13050: 2011
	Water penetration by uniform static air pressure difference	ASTM E331-00 ASTM E331-00 (Reapproved 2023) AS/NZS 4284: 2008 Cl. 8.5 BS EN 12155: 2000
	建築幕牆氣密性能檢測方法	GB/T 15227-2019
	建築幕牆水密性能檢測方法	GB/T 15227-2019
	建築幕牆抗風壓性能檢測方法	GB/T 15227-2019
	建築幕牆平面內變形性能檢測方法	GB/T 18250-2000

Leading Edge Construction Materials Testing Company Limited
领鋒建材檢測有限公司
Testing Center in Asia Aluminum Industrial City, New & High-tech Industrial Development Zone of Dawang, Zhaoqing City, Guangdong Province, China
中國廣東省肇慶高新區亞洲鋁業工業城鋁制品實驗中心

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Fire (Fire Resistance Tests)	Burning brand test for building covering	ASTM E108-11 Cl. 10 UL 790-2004 (R2008) Cl. 8 UL 790-2022 Cl. 8 UL 1703-2002 Cl. 31.2
	Intermittent flame test for building covering	ASTM E108-11 Cl. 8 UL 790-2004 (R2008) Cl. 6 UL 790-2022 Cl. 6
	Spread of flame test for building covering	ASTM E108-11 Cl. 9 UL 790-2004 (R2008) Cl. 7 UL 790-2022 Cl. 7 UL 1703-2002 Cl. 31.1
Glass	Impact test of glass	BS 6206: 1981 and ANSI Z97.1: 2009 BS EN 12600: 2002

Global Tests Limited
綜建測試有限公司

ADDRESS 地址	:	Flat K, 16/F, Century Industrial Centre, No. 33-35 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong 香港新界火炭坳背灣街 33-35 號世紀工業中心 16 樓 K 室
ENQUIRY 查詢	:	Mr HO Chun-hong, Director 何振康先生，董事
TELEPHONE 電話	:	3179 4600
FAX 傳真	:	3179 4601
E-MAIL 電郵	:	globaltests@yahoo.com.hk
WEBSITE ADDRESS 網址	:	www.gtl.hk
CLIENTELE 服務對象	:	Public 公眾

Contact details last updated on: 14 August 2023

Global Tests Limited
綜建測試有限公司

ADDRESS
地址 : Flat K, 16/F, Century Industrial Centre, No. 33-35 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 33-35 號世紀工業中心 16 樓 K 室

ACCREDITED TEST CATEGORY
認可測試類別 : Construction Materials 建築材料

Global Tests Limited
綜建測試有限公司
Flat K, 16/F, Century Industrial Centre, No. 33-35 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong
香港新界火炭坳背灣街 33-35 號世紀工業中心 16 樓 K 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Adhesive	Pull-off test of render/ repair mortar in the force range 0.2 kN – 16 kN	In-house method GTL-WI-01
	Pull-off test of tile adhesive in the force range 0.2 kN – 16 kN	In-house method GTL-WI-02

QIMA Testing (HK) Limited

ADDRESS 地址	:	3/F, Liven House, 61-63 King Yip Street, Kwun Tong, Kowloon, Hong Kong 香港九龍觀塘敬業街61-63號利維大廈3樓
ENQUIRY 查詢	:	Miss Pearl TSE Pui-pui, Lab Operations Manager 謝沛沛小姐，實驗室運營經理
TELEPHONE 電話	:	(852) 3185 8011
FAX 傳真	:	
E-MAIL 電郵	:	pearl.tse@qima.com
WEBSITE ADDRESS 網址	:	www.qima.com
CLIENTELE 服務對象	:	Public 公眾

QIMA Testing (HK) Limited

ADDRESS **地址**	:	3/F, Liven House, 61-63 King Yip Street, Kwun Tong, Kowloon, Hong Kong 香港九龍觀塘敬業街 61-63 號利維大廈 3 樓
ACCREDITED TEST CATEGORY **認可測試類別**	:	Chemical Testing 化學測試 Food 食品 Physical and Mechanical Testing 物理及機械測試 Toys and Children's Products 玩具及兒童產品

QIMA Testing (HK) Limited

3/F, Liven House, 61-63 King Yip Street, Kwun Tong, Kowloon, Hong Kong
香港九龍觀塘敬業街 61-63 號利維大廈 3 樓

Chemical Testing 化學測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Chemical tests:-	
Spectacle frames	Release of Nickel	BS EN 16128:2015 Cl.1 to Cl. 8 Technique used for Cl. 8: ICP-OES BS EN 12472: 2020 EN 16128:2015 Cl.1 to Cl. 8 Technique used for Cl. 8: ICP-OES EN 12472: 2020
Spectacle frames of sunglass	Release of Nickel	BS EN 16128:2015 Cl.1 to Cl. 8 Technique used for Cl. 8: ICP-OES BS EN 12472: 2020 EN 16128:2015 Cl.1 to Cl. 8 Technique used for Cl. 8: ICP-OES EN 12472: 2020

QIMA Testing (HK) Limited

3/F, Liven House, 61-63 King Yip Street, Kwun Tong, Kowloon, Hong Kong
香港九龍觀塘敬業街 61-63 號利維大廈 3 樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Food containers (glass, ceramic and enamel ware)	Toxicology tests:- Leachable Cadmium and Lead	Japan Food Sanitation Law, Ministry of Health and Welfare Notification No. 370, 28 Nov 1959, and Notice No. 416 11 Aug 2008, Part III – Implements, Containers and Packaging Specifications and Standards for Foods, Food Additives, etc. under the Food Sanitation Act (ABSTRACTS) 2010, JETRO April 2011, Part IV "Apparatus, Containers / Packages" *Test procedures for compliance testing*:- Specification, Standards and Testing Methods for Foodstuffs, Implements, Containers and Packaging, Toys, Detergents 2008 Section II Part D Cl. D-1 (English version published by JETRO, January 2009)

QIMA Testing (HK) Limited

3/F, Liven House, 61-63 King Yip Street, Kwun Tong, Kowloon, Hong Kong
香港九龍觀塘敬業街 61-63 號利維大廈 3 樓

Physical and Mechanical Testing 物理及機械測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Spectacles testing:- 眼鏡測試	
Spectacle frame	- Physical properties	GB/T 14214-2019 Cl. 4.3, 4.4, 4.5, 4.6, 4.7, 4.8, 4.9, 4.10 and 9
	- Test methods	Cl. 7.2, 8.2, 8.3, 8.4, 8.5, 8.6, 8.7. 8.8 and 8.9
眼鏡架	- 物理特性	GB/T 14214-2019 Cl. 4.3, 4.4, 4.5, 4.6, 4.7, 4.8, 4.9, 4.10 及 9
	- 試驗方法	Cl. 7.2, 8.2, 8.3, 8.4, 8.5, 8.6, 8.7. 8.8 及 8.9
Spectacle frame	- Physical properties	AS/NZS ISO 12870: 2012 <*Excluding the following*> Cl. 4.2.2, 4.2.3 and 4.2.4
	- Physical properties	BS EN ISO 12870: 2018 EN ISO 12870: 2018 ISO 12870: 2016 <*Excluding the following*> for the above three standards Cl. 4.2.2, 4.2.3 and 4.2.4 ISO 12870: 2024 <*Excluding the following*> Cl. 4.3, 4.4, 4.5, 4.6 and 4.9

QIMA Testing (HK) Limited

3/F, Liven House, 61-63 King Yip Street, Kwun Tong, Kowloon, Hong Kong
香港九龍觀塘敬業街 61-63 號利維大廈 3 樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Chemical tests :- 化學性能測試	
Toys	- Migration of the elements Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium, Boron	AS/NZS ISO 8124.3: 2021 + A1: 2023 (for dewaxing: Method A only) <*Excluding the following*> Cl. 9.7.1.3 Method B ISO 8124-3: 2020 + A1: 2023 (for dewaxing: Method A only) <*Excluding the following*> Cl. 9.7.1.3 Method B
Toy Category III toy material: Scraped-off material	- Migration of certain elements: Aluminium, Antimony, Arsenic, Barium, Boron, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Mercury, Nickel, Selenium, Strontium, Tin and Zinc Chromium (for screening for Cr(VI)) Tin (for screening for organic tin)	BS EN71-3: 2019 + A1:2021 EN71-3: 2019 + A1:2021 Annex E (ICP-MS) Alternative method as documented in CH-HK-WI102 (ICP-MS)
Toys	- Migration of the elements Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	GB 6675.1-2014, Cl. 5.3.3 *Test procedures for compliance testing:* GB 6675.4-2014
玩具	- 特定元素的遷移 銻，砷，鋇，鎘，鉻，鉛，汞, 硒	GB 6675.1-2014, Cl. 5.3.3 *符合性測試程序:* GB 6675.4-2014
Toys - paint and similar surface-coating materials	- Migration of the elements Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	ASTM F963-23 Cl. 4.3.5.1 (2) *Test procedures for compliance testing:-* ASTM F963-23 Cl. 8.3.2 - 8.3.4
Toys - substrate materials (excluding children's Jewelry, ceramic, glass, crystal and other siliceous materials)	- Migration of the elements Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	ASTM F963-23 Cl. 4.3.5.2 (2) (b) and (c) *Test procedures for compliance testing:-* ASTM F963-23 Cl. 8.3.5 <*Excluding the following*> Cl. 8.3.5.5(3)

QIMA Testing (HK) Limited

3/F, Liven House, 61-63 King Yip Street, Kwun Tong, Kowloon, Hong Kong
香港九龍觀塘敬業街 61-63 號利維大廈 3 樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Chemical tests :-	
Toy and children's product made of plastic	Cadmium content	Regulation (EC) No. 1907/2006 on REACH Annex XVII Item No 23 as amended by Commission Regulation (EC) No. 835/2012 *Compliance test procedures for cadmium content:-* EN 1122: 2001 Method B (wet decomposition) BS EN 1122: 2001 Method B (wet decomposition)
Toy and childcare article	- Dibutyl Phthalate (DBP) - Di-(2ethylhexyl) phthalate (DEHP) - Benzyl Butyl Phthalate (BBP) - Diisononyl phthalate (DINP) - Diisobutyl phthalate (DIBP) - Di-n-pentyl phthalate (DPP/DPENP) - Di-n-hexyl phthalate (DnHP / DHEXP) - Dicyclohexyl phthalate (DCP/DCHP)	US Public Law 110 -314 Consumer Product Safety Improvement Act 2008 and US 16 CFR Part 1307 *Test procedures for compliance testing:* CPSC Test Method: CPSC-CH-C1001-09.4 Standard Operating Procedure for Determination of Phthalates, January 17, 2018

QIMA Testing (HK) Limited

3/F, Liven House, 61-63 King Yip Street, Kwun Tong, Kowloon, Hong Kong
香港九龍觀塘敬業街 61-63 號利維大廈 3 樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Chemical tests :-	
All toys' materials	- Colouring matters	Japan Toy Safety Standard ST2016 Fourth Edition (2022.10.4) Part 3 Cl. 1.1 *Test procedures for compliance testing:* Cl. 2.1 Specifications and Standards for Foods, Food Additives, etc. under the Food Sanitation Act (ABSTRACTS) 2010, JETRO April 2011, Part V "TOYS" *Test procedures for compliance testing:-* Specifications, Standards and Testing Methods for Foodstuffs, Implements, Containers and Packaging, Toys, Detergents 2008 (English version published by JETRO, January 2009
Coating film of toys	- Cadmium, lead and arsenic	Part III A-4 & Part II B-9
Coating film coated by using Polyvinyl chloride	- Potassium permanganate consumption - Evaporation of residue	Part III A-5 & Part II B-1 Part III A-5 & Part II B-5
Parts (excluding coating film) manufactured using materials mainly composed of polyvinyl chloride	- Potassium permanganate consumption - Heavy metals - Cadmium - Evaporation of residue - Arsenic	Part III A-6 & Part III A-5(2)a & Part II B-1 Part III A-6 & Part III A-1(2)a & Part II B-4 Part III A-6 & Part II B-9 Part III A-6 & Part III A-5(2)b & Part II B-5 Part III A-6 & Part III A-1(2)b & Part II B-7
Parts (excluding coating film) manufactured using materials mainly composed of polyethylene	- Potassium permanganate consumption - Heavy metals - Evaporation of residue - Arsenic	Part III A-9 & Part III A-5(2)a & Part II B-1 Part III A-9 & Part III A-1(2)a & Part II B-4 Part III A-9 & Part III A-5(2)b & Part II B-5 Part III A-9 & Part III A-1(2)b & Part II B-7
Metallic accessories and toys that might be swallowed by infants and small children	- Lead	Part III A-10 & Part II B-9
Synthetic resin-based colouring agents used in the manufacture of toys	- Colouring agent	Part III B

QIMA Testing (HK) Limited

3/F, Liven House, 61-63 King Yip Street, Kwun Tong, Kowloon, Hong Kong
香港九龍觀塘敬業街 61-63 號利維大廈 3 樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Flammability tests:- 燃燒性能測試	
Toy		16 CFR Parts 1500.44, 1610 and 1611 ASTM F963-23 Cl. 4.2
Toy		BS EN 71-2: 2020 EN 71-2: 2020 <*Excluding the following*> for the above two standards Tests for flammable gases, extremely flammable liquids, highly flammable liquids, flammable liquids, and flammable gels, viscosity tests
Toy		ISO 8124-2: 2023 AS/NZS 8124.2: 2023 <*Excluding the following*> for the above two standards Test for flammable gases, extremely flammable liquids, highly flammable liquids, flammable liquids and flammable gels, viscosity tests
Toy		GB 6675.1: 2014 Cl. 5.2.1 in conjunction with GB 6675.3: 2014 <*Excluding the following*> Test for flammable gases, highly flammable liquids, flammable liquids, flammable gels and highly flammable solids; surface flash test
玩具		GB 6675.1: 2014 Cl. 5.2.1 配合 GB 6675.3: 2014 <***不包含***> 易燃氣體、高度易燃液體、易燃液體、易燃凝膠體及高度易燃固體測試; 表面閃燃效應測試

QIMA Testing (HK) Limited

3/F, Liven House, 61-63 King Yip Street, Kwun Tong, Kowloon, Hong Kong
香港九龍觀塘敬業街 61-63 號利維大廈 3 樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Toy	Flammability tests:-	Japan Toy Safety Standard ST2016 Fourth Edition (October 4, 2022) Part 2 (based on English version provided by JTA in December 3 2019 and translation of revision notice in October 4, 2022) *<Excluding the following>* Test for flammable gases, extremely flammable liquids, highly flammable liquids, flammable liquids and flammable gels, viscosity tests

QIMA Testing (HK) Limited

3/F, Liven House, 61-63 King Yip Street, Kwun Tong, Kowloon, Hong Kong
香港九龍觀塘敬業街 61-63 號利維大廈 3 樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Physical and mechanical tests : 機械和物理性能測試 :	
Toy	Safety requirements and test methods	ISO 8124-1: 2022 AS/NZS ISO 8124.1: 2023 <*Excluding the following*> for the above two standards Cl. 4.8.2, 4.15.2 (wheeled ride-on toys), 4.16.2, 4.21, 4.22, 4.23, 4.24, 4.27, 4.28, 4.29 (pull and push toys, hand activated spring-propelled toys and toys using percussion caps or other explosive action) and 4.30
Toys	Safety requirements and test methods	GB 6675.1-2014 Cl. 5.1.1, 5.1.2, 5.1.3, 5.1.4, 5.1.6, 5.1.8, 5.1.10 and GB 6675.2-2014 + Amendment 1 <*Excluding the following*> Cl. 4.15.2 (wheeled ride-on toys), 4.16.2, 4.20, 4.21, 4.22, 4.23, 4.26, 4.27 and 4.28 (pull and push toys, hand-activated spring-propelled toys and toys using percussion caps or other explosive action)
玩具	安全規定及測試方法	GB 6675.1-2014 Cl. 5.1.1, 5.1.2, 5.1.3, 5.1.4, 5.1.6, 5.1.8, 5.1.10 及 GB 6675.2-2014 +第 1 號修改單 ***<不包含>*** Cl. 4.15.2 (有輪乘騎玩具), 4.16.2, 4.20, 4.21, 4.22, 4.23, 4.26, 4.27 及 4.28 (推拉玩具、手動彈簧驅動玩具及火藥帽玩具或爆炸功能玩具)
Toy	Instructions for use of toys and graphical symbol for age warning labeling	GB 6675.1-2014 Cl. 5.7 and Annex A <*Excluding the following*> Cl. 5.7.2f)
玩具	玩具使用說明及年齡警告圖標	GB 6675.1-2014 Cl. 5.7 及附錄 A ***<不包含>*** Cl. 5.7.2f)

QIMA Testing (HK) Limited

3/F, Liven House, 61-63 King Yip Street, Kwun Tong, Kowloon, Hong Kong
香港九龍觀塘敬業街 61-63 號利維大廈 3 樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Physical and mechanical tests :-	
Toy	Safety requirements and test methods	BS EN71-1: 2014 + A1: 2018 EN71-1: 2014 + A1: 2018 <*Excluding the following*> for the above two standards Cl. 4.11(e), 4.15.1, 4.15.2, 4.15.5, 4.18 (tests to EN 15649-3), 4.19, 4.20.2.5, 4.20.2.8, 4.20.2.11, 4.20.2.12, 4.21 and 5.6 Japan Toy Safety Standard ST2016 Fourth Edition (October 4, 2022) Part 1 (based on English version provided by JTA in December 3, 2019 and translation of revision notice in October 4, 2022) <*Excluding the following*> Cl. 4.8.2, 4.15.2 (wheeled ride-on toys), 4.15.4, 4.16.2.2, 4.18.3.1, 4.20, 4.23 (pull and push toys, hand activated spring-propelled toys and toys using percussion caps or other explosive action) and 4.25
Toy	Safety requirements	ASTM F963-23 Cl. 4.1, 4.3.7, 4.5, 4.6, 4.7, 4.8, 4.9, 4.10, 4.11, 4.12, 4.13, 4.14, 4.15, 4.16, 4.17, 4.18, 4.19, 4.20.2, 4.21, 4.22, 4.23, 4.23.1, 4.23.2, 4.24, 4.26, 4.27, 4.28, 4.30, 4.31, 4.32, 4.33, 4.34, 4.35, 4.36, 4.38, 4.39, 4.40 <*Excluding the following*> Cl. 4.5 (pull and push toys, hand-activated spring-propelled toys and toys using percussion caps or other explosive action), 4.8.1, 4.15.5 (toy intended to accommodate more than one child) and 4.15.6
	Labeling requirements	Cl. 5
	Instructional literature	Cl. 6
	Producer's markings	Cl. 7
	Test methods	Cl. 8

QIMA Testing (HK) Limited

3/F, Liven House, 61-63 King Yip Street, Kwun Tong, Kowloon, Hong Kong
香港九龍觀塘敬業街 61-63 號利維大廈 3 樓

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Physical and mechanical tests :-	
Toy	Safety tests	Federal Hazardous Substances Act Regulations 16 CFR Part 1500.48 16 CFR Part 1500.49 16 CFR Part 1500.50 16 CFR Part 1500.51 16 CFR Part 1500.52 16 CFR Part 1500.53 16 CFR Part 1501 16 CFR Part 1510
Ball intended for use by children under 3 years of age	- Identification of mechanical hazard of small balls	16 CFR Part 1500.18(a)(17)
Children's products containing button cell or coin batteries	- Safety requirements and test methods	16 CFR Part 1263 in conjunction with ANSI/UL 4200A-2023 ANSI/UL 4200A-2023
Magnets, Magnetic Materials and Magnetic Products		
- Children's products containing Magnet	- Safety requirements and test methods	16 CFR Part 1262 in conjunction with ASTM F963-17 Cl. 8.25.1 to 8.25.3
Marble, small ball, balloon and other small part intended for use by children above 3 years of Age	- Determination of misbranded toys	16 CFR Part 1500.19
Pacifier	Safety tests	Federal Hazardous Substances Act Regulations 16 CFR Part 1511

Government Laboratory - Forensic Science Division
政府化驗所 – 法證事務部

ADDRESS : Government Laboratory
地址 7/F, Homantin Government Offices,
88 Chung Hau Street, Kowloon, Hong Kong
香港九龍何文田忠孝街八十八號何文田政府合署七樓

ENQUIRY : Dr TAM Cheok-ning, Senior Chemist
查詢 譚卓寧博士，高級化驗師

TELEPHONE : 2762 3768
電話

FAX : 2714 4083
傳真

E-MAIL : qmfsd@govtlab.gov.hk
電郵

WEBSITE ADDRESS : http://www.govtlab.gov.hk
網址

CLIENTELE : Government departments
服務對象 政府部門

Government Laboratory - Forensic Science Division
政府化驗所 – 法證事務部

ADDRESS **地址**	:	Government Laboratory, 7/F, Homantin Government Offices, 88 Chung Hau Street, Kowloon, Hong Kong 香港九龍何文田忠孝街八十八號何文田政府合署七樓
	:	Government Laboratory (Office at Lai Chi Kok Government Offices) 9/F and 10/F., Lai Chi Kok Government Offices, 19 Lai Wan Road, Lai Chi Kok, Kowloon, Hong Kong 香港九龍荔枝角荔灣道十九號荔枝角政府合署九及十樓
ACCREDITED TEST CATEGORY **認可測試類別**	:	Chemical Testing 化學測試 Forensic Testing 科學鑑證 Proficiency Testing Providers 能力驗證提供者

Government Laboratory - Forensic Science Division
政府化驗所 – 法證事務部

Government Laboratory, 7/F, Homantin Government Offices, 88 Chung Hau Street, Kowloon, Hong Kong
香港九龍何文田忠孝街八十八號何文田政府合署七樓

Chemical Testing 化學測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Hair	Toxicology: - Screening for Drugs of abuse: - delta-9-Tetrahydrocannabinol, 11-nor-delta-9-tetrahydrocannabinol-9-carboxylic acid, morphine, methamphetamine, cocaine, ketamine, nimetazepam Test for Drugs of abuse:- Morphine, codeine, 6-monoacetylmorphine, amphetamine, methamphetamine, 3,4-methylenedioxymethamphetamine, 3,4-methylenedioxyamphetamine, cocaine, benzoylecgonine, ecgonine methyl ester, ketamine, norketamine & nimetazepam delta-9-Tetrahydrocannabinol, 11-nor-delta-9-tetrahydrocannabinol-9-carboxylic acid, morphine, codeine, 6-monoacetylmorphine, amphetamine, methamphetamine, 3,4-methylenedioxymethamphetamine, 3,4-methylenedioxyamphetamine, cocaine, benzoylecgonine, ecgonine methyl ester, ketamine, norketamine	In-house Method GLFSD-TX-10, (screening) (ELISA) In-house Method GLFSD-TX-11 (LC-MS/MS) In-house Method GLFSD TX-12 (ID-LC-MS/MS)

Government Laboratory - Forensic Science Division
政府化驗所 – 法證事務部

Government Laboratory, 7/F, Homantin Government Offices, 88 Chung Hau Street, Kowloon, Hong Kong
香港九龍何文田忠孝街八十八號何文田政府合署七樓

Forensic Testing 科學鑑證		
ITEM, MATERIAL OR PRODUCT TESTED 測試項目、材料或產品	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Controlled substances: -	
Drugs	Identification of heroin in solid	In-house method GLFSD-CD-08 (GC-MS)
	Identification of cocaine, heroin, ketamine, methamphetamine, midazolam, nimetazepam in solid and methadone in solid/solution	In-house method GLFSD-CD-09 (GC-MS)
	Identification of tetrahydrocannabinol in plant materials and resinous solid	In-house method GLFSD-CD-10 (GC-MS)
	Identification of cocaine base, cocaine hydrochloride and methamphetamine hydrochloride in solid	In-house method GLFSD-CD-11 (FTIR)
	Screening for heroin, ketamine, methamphetamine and cocaine in solid	In-house method GLFSD-CD-12 (Spot tests)
	Quantification of heroin hydrochloride in solid	In-house method GLFSD-CD-01 (GC-FID)
	Quantification of cocaine base in solid	In-house method GLFSD-CD-02 (GC-FID)
	Quantification of ketamine in solid	In-house method GLFSD-CD-03 (GC-FID)
	Quantification of methamphetamine hydrochloride in solid	In-house method GLFSD-CD-04 (HPLC-DAD)
	Quantification of midazolam maleate in solid	In-house method GLFSD-CD-05 (HPLC-DAD)
	Quantification of nimetazepam in tablets	In-house method GLFSD-CD-06 (HPLC-DAD)
	Quantification of methadone in solution	In-house method GLFSD-CD-07 (GC-FID)

Government Laboratory - Forensic Science Division
政府化驗所 – 法證事務部

Government Laboratory, 7/F, Homantin Government Offices, 88 Chung Hau Street, Kowloon, Hong Kong
香港九龍何文田忠孝街八十八號何文田政府合署七樓

Forensic Testing 科學鑑證		
ITEM, MATERIAL OR PRODUCT TESTED 測試項目、材料或產品	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Controlled substances (cont'd): -	
Drugs	Determination of codeine concentration in solution	In-house method GLFSD-CD-13 (GC-FID)
	Quantification of cocaine hydrochloride in solid	In-house method GLFSD-CD-14 (GC-FID)
	Identification of codeine in solution	In-house method GLFSD-CD-15 (GC-MS)
	Quantification of methadone in tablets	In-house method GLFSD-CD-16 (GC-FID)
	Determination of delta-9- tetrahydrocannabinol in oil	In-house method SDU/Q/1 (LC-MS/MS)

Government Laboratory - Forensic Science Division
政府化驗所 – 法證事務部

Government Laboratory, 7/F, Homantin Government Offices, 88 Chung Hau Street, Kowloon, Hong Kong
香港九龍何文田忠孝街八十八號何文田政府合署七樓

Forensic Testing 科學鑑證		
ITEM, MATERIAL OR PRODUCT TESTED 測試項目、材料或產品	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Toxicology: -	
Human Body Fluids	Ethyl Alcohol	In-house method GLFSD-TX-01 (Headspace GC-FID)
Urine	Test for Drugs of Abuse:- Morphine, Codeine, Methadone, Methamphetamine, Amphetamine, Methylenedioxymethamphetamine, Methylenedioxyamphetamine, Ketamine, Benzoylecgonine, Triazolam, alpha-Hydroxymidazolam, Midazolam, Nordiazepam, Diazepam, 7-aminonimetazepam, 7-aminoflunitrazepam, Estazolam, Nitrazepam, 7-aminonitrazepam	In-house method GLFSD-TX-02 (LC-MS)
	Test for 11-nor-delta-9- tetrahydrocannabinol -9 - carboxylic acid	In-house Method GLFSD TX-13 (GC-MS/MS)
	Screening for Ketamine and Methamphetamine	In-house method GLFSD-TX-08 (LC-MS)
	Screening for Ketamine	In-house method GLFSD-TX-09 (Enzyme-linked immunosorbent assay)

Government Laboratory - Forensic Science Division
政府化驗所 – 法證事務部

Government Laboratory, 7/F, Homantin Government Offices, 88 Chung Hau Street, Kowloon, Hong Kong
香港九龍何文田忠孝街八十八號何文田政府合署七樓

Forensic Testing 科學鑑證		
ITEM, MATERIAL OR PRODUCT TESTED 測試項目、材料或產品	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Toxicology: - (cont'd)	
Blood	Quantitation of Paracetamol	In-house method GLFSD-TX-05 (HPLC-DAD)
	Screening for Ketamine	In-house method GLFSD-TX-06 (LC-MS)
	Screening for Methamphetamine	In-house method GLFSD-TX-07 (LC-MS)
	Screening for Basic and Neutral Drugs:- Bromazepam, Chlorpheniramine, Citalopram, Clozapine, Diazepam, Diphenhydramine, Midazolam, Mirtazapine, Nordiazepam, Paracetamol, Phenytoin, Tramadol, Zolpidem	In-house Method GLFSD TX-14 (GC-MS)
	Screening for Acidic and Neutral Drugs:- Carbamazepine, Frusemide, Mefenamic acid, Trazodone, Warfarin, Naproxen, Paracetamol, Salicylic acid	In-house Method GLFSD TX-15 (HPLC-DAD)
	Estimation of Basic and Neutral Drugs Levels:- Chlorpheniramine, Citalopram, Clozapine, Diazepam, Diphenhydramine, Midazolam, Mirtazapine, Nordiazepam, Paracetamol, Phenytoin, Tramadol, Zolpidem	In-house Method GLFSD TX-16 (GC-MS)
	Estimation of Acidic and Neutral Drug Levels:- Carbamazepine, Frusemide, Mefenamic acid, Trazodone, Warfarin, Naproxen, Paracetamol	In-house Method GLFSD TX-17 (HPLC-DAD)

Government Laboratory - Forensic Science Division
政府化驗所 – 法證事務部

Government Laboratory, 7/F, Homantin Government Offices, 88 Chung Hau Street, Kowloon, Hong Kong
香港九龍何文田忠孝街八十八號何文田政府合署七樓

Forensic Testing 科學鑑證		
ITEM, MATERIAL OR PRODUCT TESTED 測試項目、材料或產品	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Toxicology: - (cont'd)	
Hair	Screening for Drugs of abuse: -	
	delta-9-Tetrahydrocannabinol, 11-nor-delta-9-tetrahydrocannabinol-9-carboxylic acid, morphine, methamphetamine, cocaine, ketamine, nimetazepam	In-house Method GLFSD-TX -10 (screening) (ELISA)
	Test for Drugs of abuse:-	
	Morphine, codeine, 6-monoacetylmorphine, amphetamine, methamphetamine, 3,4-methylenedioxymethamphetamine, 3,4-methylenedioxyamphetamine, cocaine, benzoylecgonine, ecgonine methyl ester, ketamine, norketamine & nimetazepam	In-house Method GLFSD-TX-11 (LC-MS/MS)
	delta-9-Tetrahydrocannabinol, 11-nor-delta-9-tetrahydrocannabinol-9-carboxylic acid, morphine, codeine, 6-monoacetylmorphine, amphetamine, methamphetamine, 3,4-methylenedioxymethamphetamine, 3,4-methylenedioxyamphetamine, cocaine, benzoylecgonine, ecgonine methyl ester, ketamine, norketamine	In-house Method GLFSD TX-12 (ID-LC-MS/MS)

Government Laboratory - Forensic Science Division
政府化驗所 – 法證事務部

Government Laboratory, 7/F, Homantin Government Offices, 88 Chung Hau Street, Kowloon, Hong Kong
香港九龍何文田忠孝街八十八號何文田政府合署七樓

Forensic Testing 科學鑑證		
ITEM, MATERIAL OR PRODUCT TESTED 測試項目、材料或產品	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Forensic Chemistry/Criminalistics: -	
Glass	Determination of refractive index	In-house method GLFSD-TE-001 (Glass Refractive Index Measurement instrument)
Paint	Examination of paint	In-house method GLFSD-TE-002 (FTIR and SEM-EDX)
Textile fibres	Examination of textile fibres	In-house method GLFSD-TE-003 (Stereozoom microscope, Polarized light microscope, Fluorescence microscope, High power microscope, Microspectrophotometer, FTIR spectrophotometer)
Ignitable liquid residue	Detection of ignitable liquid residues: - Petrol, - Kerosene - Diesel - Paint thinner mixture	In-house method GLFSD-TE-004 (Automated Thermal Desorber coupled with GC-FID /MS, Multipurpose Sampler (Headspace / Solid-Phase Microextraction) coupled with GCMS)
Liquor	Determination of ethanol content	In-house method GLFSD-CT-001 (Headspace GC-MSD) In-house method GLFSD-CT-003 3 (Headspace GC-FID)
	Marks and Impressions: -	
Tools, damaged parts with questioned toolmarks, and recovered toolmarks on casting	Comparisons of recovered toolmarks with control toolmarks	In-house method GLFSD-TM-001 (Visual examination, Mikrosil casting and microscopic comparison)
Shoeprints on various surface and preservation of recovered shoeprints	Comparisons of recovered shoeprints with control shoeprints	In-house method GLFSD-SP-001 (Photography, plaster casting and gel-lifting of shoeprints followed by visual comparison)
Vehicle chassis and engine numbers stamped/engraved on vehicle parts	Examination and identification of the genuineness of chassis and engine numbers on vehicles	In-house method GLFSD-TM-002 (Visual examination and chemical method)

Government Laboratory - Forensic Science Division
政府化驗所 – 法證事務部

Government Laboratory, 7/F, Homantin Government Offices, 88 Chung Hau Street, Kowloon, Hong Kong
香港九龍何文田忠孝街八十八號何文田政府合署七樓

Forensic Testing 科學鑑證		
ITEM, MATERIAL OR PRODUCT TESTED 測試項目、材料或產品	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Human body fluids/tissues: -	
Blood	Screening of Blood	In-house method GLFSD-DN-15 (visual examination and KM Test) In-house method GLFSD-DN-19 (HemaTrace kit)
Semen	Screening and Identification of Semen	In-house method GLFSD-DN-16 (visual examination, AP Test, H+E reagent, low and high power microscopy) In-house method GLFSD-DN-20 (ABAcard-p30 kit)
Saliva	Screening of Saliva	In-house method GLFSD-DN-17 (visual examination and Phadebas Test)
Hairs	Differentiation of Human and Animal Hairs	In-house method GLFSD-DN-18 (visual examination and low and high power microscopy)

Government Laboratory - Forensic Science Division
政府化驗所 – 法證事務部

Government Laboratory, 7/F, Homantin Government Offices, 88 Chung Hau Street, Kowloon, Hong Kong
香港九龍何文田忠孝街八十八號何文田政府合署七樓

Forensic Testing 科學鑑證		
ITEM, MATERIAL OR PRODUCT TESTED 測試項目、材料或產品	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	DNA Profiling: -	
Human body tissues/fluid including blood, buccal swabs, hair, saliva, semen and cellular material from contact traces	Polymerase Chain Reaction (PCR)-based analysis of Short Tandem Repeat (STR) of DNA fragments	
	- DNA extraction, quantitation, PCR amplification and electrophoresis	In-house method GLFSD-DN-01 In-house method GLFSD-DN-06 In-house method GLFSD-DN-07 In-house method GLFSD-DN-12 In-house method GLFSD-DN-13 In-house method GLFSD-DN-14 In-house method GLFSD-DN-21 In-house method GLFSD-DN-22
	- Evaluation of STR analysis results from single source and mixed DNA samples from two to four persons	In-house method DNA/SWM/4A

Government Laboratory - Forensic Science Division
政府化驗所 – 法證事務部
7/F, Homantin Government Offices, 88 Chung Hau Street, Homantin, Kowloon, Hong Kong.
香港九龍何文田忠孝街八十八號何文田政府合署七樓

Proficiency Testing Providers 能力驗證提供者		
PROFICIENCY TESTING SCHEME AND ITEM 能力驗證計劃及項目	**MEASURAND OR CHARACTERISTIC MEASURED** 測試參數或特質	**PROFICIENCY TESTING SCHEME PROCEDURE*** 能力驗證計劃程序
Forensic Science:-		
Stamp impressions examination	Stamp impressions comparison	Proficiency Testing Provider Protocol, PTPP(F)
Chinese handwriting and signature examination	Authorship identification of handwriting and Signature specimens	Proficiency Testing Provider Protocol, PTPP(F)

.

* INCLUDING PROCEDURES FOR DETERMINING ASSIGNED VALUES AND THE UNCERTAINTY.

Government Laboratory - Forensic Science Division
政府化驗所 – 法證事務部
Government Laboratory (Office at Lai Chi Kok Government Offices) 9/F and 10/F., Lai Chi Kok Government Offices, 19 Lai Wan Road, Lai Chi Kok, Kowloon, Hong Kong.
香港九龍荔枝角荔灣道十九號荔枝角政府合署九及十樓

Forensic Testing 科學鑑證		
ITEM, MATERIAL OR PRODUCT TESTED 測試項目、材料或產品	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	DNA Profiling (cont'd): -	
Control buccal swab and blood for parentage analysis	Polymerase Chain Reaction (PCR)-based analysis of Short Tandem Repeats (STR) of DNA fragments	DNA extraction, quantification, amplification (PCR) and electrophoresis techniques using :
	- DNA extraction, quantitation, PCR amplification and electrophoresis	In-house method GLFSD-DN-02 In-house method GLFSD-DN-05 In-house method GLFSD-DN-08 In-house method GLFSD-DN-09 In-house method GLFSD-DN-11
	- Genetic characterisation and reporting	In-house method DNA/SWM/4B
Control buccal swab for DNA database	Polymerase Chain Reaction (PCR)-based analysis of Short Tandem Repeats (STR) of DNA fragments	
	- DNA extraction, quantitation, PCR amplification and electrophoresis	In-house method GLFSD-DN-02 In-house method GLFSD-DN-04 In-house method GLFSD-DN-05 In-house method GLFSD-DN-08 In-house method GLFSD-DN-09 In-house method GLFSD-DN-11 In-house method GLFSD-DN-23
	- Genetic characterisation and reporting	In-house method DNA/SWM/4B

Government Laboratory - Forensic Science Division
政府化驗所 – 法證事務部
Government Laboratory (Office at Lai Chi Kok Government Offices) 9/F and 10/F., Lai Chi Kok Government Offices, 19 Lai Wan Road, Lai Chi Kok, Kowloon, Hong Kong.
香港九龍荔枝角荔灣道十九號荔枝角政府合署九及十樓

Forensic Testing 科學鑑證		
ITEM, MATERIAL OR PRODUCT TESTED 測試項目、材料或產品	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Document Examination: -	
Documents	Examination of Handwriting and Signatures	In-house method GLFSD-QD-1
	Examination of Altered Documents	In-house method GLFSD-QD-3
	Examination of Indentations on Documents	In-house method GLFSD-QD-5 (Electrostatic Detection Apparatus (ESDA))
	Examination of Hong Kong Smart Identity Cards	In-house method GLFSD-QD-6
	Examination of Visa cards and MasterCard cards	In-house method GLFSD-QD-7
	Examination of Rubber Stamps and Stamp Impressions	In-house method GLFSD-QD-4
	Examination of Passports	In-house method GLFSD-QD-8

The Lab (Asia) Limited

ADDRESS 地址	:	22 San Hi Tsuen Street, Ping Shan, New Territories 新界屏山新起村街 22 號
ENQUIRY 查詢	:	Mr Simon YAN Kin-man, General Manager 甄健民先生，總經理
TELEPHONE 電話	:	2470 2588
FAX 傳真	:	2470 2589
E-MAIL 電郵	:	simon@thelab.asia
WEBSITE ADDRESS 網址	:	https://thelab.asia
CLIENTELE 服務對象	:	Public 公眾

The Lab (Asia) Limited

ADDRESS
地址

Main Laboratory	22 San Hi Tsuen Street, Ping Shan, New Territories 新界屏山新起村街 22 號
Branch Laboratories	DD 119, Lot 994, 1025 & 1026, Wong Nai Tun Tsuen, Yuen Long, New Territories 新界元朗黃泥墩村 DD 119, 994, 1025, 1026 段
	DD121, Lot 1275A, Tong Yan San Tsuen, Ping Shan, Yuen Long, New Territories 新界元朗屏山唐人新村 DD121, 1275A 段
	DD 121, Lot 1302, 30 Ping Tong Street South, Ping Shan, Yuen Long, New Territories 新界元朗屏山屏唐南街 30 號 DD 121, 1302 段
	Lot 7, Western Support Area, Three Runway System Project Site, Hong Kong International Airport, Lantau, Hong Kong 香港大嶼山香港國際機場三跑道系統項目地盤西面航空輔助設施用地 第七地段
	Spark OES room, 1/F, On Wui Centre, 25 Lok Yip Road, Fanling, N.T. 新界粉嶺樂業路 25 號安匯中心 1 樓火花直讀光譜儀室
Test Location at Zhuhai City	Room 101, 1/F and Room 201, 2/F, Production Workshop, No. 19 Qingnian Road, Hongqi Town, Jinwan District, Zhuhai City, Guangdong Province, China 中國廣東省珠海市金灣區紅旗鎮青年路 19 號 生產車間一樓 101 室、二樓 201 室

ACCREDITED TEST CATEGORIES
認可測試類別 : Calibration Services 校正服務
Construction Materials 建築材料
Environmental Testing 環境測試

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Construction materials testing equipment - Cement grout flow cone	Verification in accordance with in-house procedure GE-TM-091 for the performance as specified in ASTM C939-97 Cl. 8, ASTM C939-02 Cl. 8, ASTM C939-10 Cl. 9, or ASTM C939-16 Cl. 9	
	Time of efflux of water from cone: 8.0 s	0.06 s
	Verification in accordance with in-house procedure GE-TM-091 for the dimensional requirements as specified in ASTM C939-97 Cl. 6.1, ASTM C939-02 Cl. 6.1, ASTM C939-10 Cl. 7.1, or ASTM C939-16 Cl. 7.1	
	Dimensions: 5 mm to 190 mm	0.2 mm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Construction materials testing equipment (cont'd)		
- Concrete test cube mould	Verification in accordance with in-house procedure GE-TM-034 for the dimensional requirements as specified in CS1: 2010: Vol. 1 App. A25, or BS 1881: Part 108: 1983 Cl. 3.1 (excluding Cl. 3.1.4)	
	Dimensions: 100 mm or 150 mm	0.04 mm
	Flatness: not more than 0.03 mm or 0.06 mm	0.01 mm
	Squareness / perpendicularity: not more than 0.5 mm	0.02 mm
	Parallelism: not more than 1 mm	0.04 mm
	Thickness (Steel base plate): larger than 10 mm	0.1 mm
	On-site verification in according with in-house procedure GE-TM-034 for the dimensional requirements as specified in CS1: 2010: Vol. 1 App. A25, or BS 1881: Part 108: 1983 Cl. 3.1 (excluding Cl. 3.1.4)	
	Dimensions: 100 mm or 150 mm	0.04 mm
	Flatness: not more than 0.03 mm or 0.06 mm	0.01 mm
	Squareness / perpendicularity: not more than 0.5 mm	0.02 mm
	Parallelism: not more than 1 mm	0.04 mm
	Thickness (Steel base plate): larger than 10 mm	0.1 mm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED[@]** 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Construction materials testing equipment (cont'd)		
- Compacting bar	Verification in accordance with in-house procedure GE-TM-037 for the dimensional and mass requirements as specified in CS1: 2010: Vol. 1 Cl. A10, BS 1881: Part 103: 1993 Cl. 4.8, BS 1881: Part 106: 1983 Cl. 6.2.8, or BS EN 12350-7: 2000 Cl. 4.1.2(c)	
	Dimensions of ramming face: 25 mm x 25 mm	0.04 mm
	Length: not less than 380 mm	0.6 mm
	Mass: 1.8 kg	0.06 g
- Curing tank	On-site calibration in accordance with in-house procedure GE-TM-045 for the parameters as listed in BS 1881: Part 111: 1983 Cl. 3.1, or CS1: 2010: Vol. 1 Cl. A28	
	Temperature distribution	1 K
	Efficiency of circulation	18 seconds
- Drying oven	On-site calibration for temperature of the oven in accordance with in-house procedure GE-TM-049 over the following ranges:	
	40 ℃ to 80 ℃	1.0 K
	above 80 ℃ to 120 ℃	1.8 K
	above 120 ℃ to 200 ℃	2.0 K
- Incubator (Capacity less than 0.12 m^3)	On-site calibration for temperature of the incubator in accordance with in-house procedure GE-TM-131 over the following range:	
	0 ℃ to 50 ℃	0.8 K

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED[@]** 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Construction materials testing equipment (cont'd)		
- Flow table for determining the flow of concrete	Verification in accordance with in-house procedure GE-TM-077 for the dimensional and mass requirements as specified in: CS1: 2010 Vol. 1 Cl. A15.1, BS EN 12350-5: 2000 Cl. 4.1, BS EN 12350-5: 2009 Cl. 4.1, or BS EN 12350-5: 2019 Cl. 5.1.1	
	Dimensions of metal plate: 700 mm x 700 mm	0.4 mm
	Minimum thickness of metal plate: 2 mm	0.06 mm
	Diameter of central circle: 210 mm	0.5 mm
	Fall height: 40 mm	0.15 mm
	Mass: 16 kg	6.4 g
	Verification in accordance with in-house procedure GE-TM-077 for the dimensional and mass requirements as specified in BS 1881: Part 105: 1984 Cl. 3.1	
	Dimensions of metal plate: 700 mm x 700 mm	0.4 mm
	Thickness of metal plate: minimum 1.5 mm	0.06 mm
	Flatness of metal plate: not more than 1.5 mm	0.05 mm
	Diameter of central circle: 200 mm	0.5 mm
	Extension of base frame: minimum 120 mm	0.08 mm
	Fall height: 40 mm	0.15 mm
	Mass: 16 kg	6.4 g
- Hollow cone for determining the flow of concrete	Verification in accordance with in-house procedure GE-TM-193 for the dimensional requirements as specified in BS EN 12350-5: 2019 Cl. 5.1.2	
	Internal diameter of base: 200 mm	0.09 mm
	Internal diameter of top: 130 mm	0.08 mm
	Height: 200 mm	0.10 mm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Construction materials testing equipment (cont'd)		
- Marsh funnel	Verification in accordance with in-house procedure GE-TM-145 for the performance as specified in ASTM D6910-04 Cl. 9.3, ASTM D6910-09 Cl. 9.3, or ISO 10414-1: 2008 Cl. 6.2.1.1	
	Time of efflux of water from cone: 26 s	0.07 s
- Metal mould for determining the flow of concrete	Verification in accordance with in-house procedure GE-TM-193 for the dimensional requirements as specified in CS1: 2010 Vol. 1 Cl. A15.2, BS 1881: Part 105: 1984 Cl. 3.2, BS EN 12350-5: 2000 Cl. 4.2, or BS EN 12350-5: 2009 Cl. 4.2	
	Internal diameter of base: 200 mm	0.09 mm
	Internal diameter of top: 130 mm	0.08 mm
	Height: 200 mm	0.10 mm
	Thickness of metal: 1.5 mm	0.07 mm
- Rebound Hammer	Verification in accordance with in-house procedure GE-TM-180 by determining the rebound value using an anvil which complies with BS EN 12504-2: 2001 Cl. 4.2, or BS EN 12504-2: 2012 Cl. 4.2	

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED[@]** 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Construction materials testing equipment (cont'd)		
- Slump cone	Verification in accordance with in-house procedure GE-TM-040 for the dimensional requirements as specified in CS1: 2010: Vol. 1 Cl. A5, or BS 1881: Part 102: 1983 Cl. 3.1	
	Internal diameter of top: 100 mm	0.10 mm
	Internal diameter of base: 200 mm	0.17 mm
	Height of cone: 300 mm	0.10 mm
	Wall thickness: minimum 1.5 mm	0.05 mm
- Tamping bar for determining the flow of concrete	Verification in accordance with in-house procedure GE-TM-194 for the dimensional requirements as specified in CS1: 2010 Vol. 1 Cl. A15.3, BS EN 12350-5: 2000 Cl. 4.3, BS EN 12350-5: 2009 Cl. 4.3, or BS EN 12350-5: 2019 Cl. 4.3	
	Dimensions of square section: 40 mm x 40 mm	0.09 mm
	Length of square section: 200 mm	0.21 mm
	Length of circular handle: 120 mm to 150 mm	0.3 mm
	Verification in accordance with in-house procedure GE-TM-194 for the dimensional requirements as specified in BS 1881: Part 105: 1984 Cl. 3.3	
	Dimensions of square section: 40 mm x 40 mm	0.09 mm
	Length of square section: minimum 200 mm	0.21 mm
	Length of circular handle: 120 mm to 150 mm	0.3 mm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED[@]** 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Construction materials testing equipment (cont'd)		
- Tamping rod	Verification in accordance with in-house procedure GE-TM-042 for the dimensional requirements as specified in CS1: 2010: Vol. 1 Cl. A6, BS 812: Part 110: 1990 Cl. 5.2, BS 812: Part 111: 1990 Cl. 5.1.2, BS 812: Part 112: 1990 + A1 Cl. 5.1.4, CS3: 2013 Cl. 15.4d and 16.4b, BS 1881: Part 102: 1983 Cl. 3.5, BS 1881: Part 103: 1993 Cl. 4.7, BS 812: Part 2: 1995 (Amd 1) Cl. 6.3.1.3, ASTM C232-99 Cl.4.5, ASTM C232-09 Cl.4.5, BS 812: Part 3: 1975 Cl. 7.3.2, BS 812: Part 3: 1975 Cl. 6.3.4, BS 812: Part 3: 1975 Cl. 7.8.2.2, BS 812: Part 110: 1990 A 2.3, BS 812: Part 111: 1990 A 2.3, or CS3: 2013 Cl. 16.9.2	
	Diameter of rod: 8 mm to 16 mm	0.04 mm
	Length of rod: 230 mm to 610 mm	0.6 mm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED[@]** 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Construction materials testing equipment (cont'd)		
- Test sieve of perforated metal plate	Verification in accordance with in-house procedure GE-TM-197 for the dimensional requirements as specified in BS 410-2: 2000, or ISO 3310-2: 1999	
	Size of holes: 4 mm to 125 mm	0.06 mm
	Pitch: 4.9 mm to 184 mm	0.08 mm
	Plate thickness: 0.8 mm to 3.5 mm	0.10 mm
	Verification in accordance with in-house procedure GE-TM-198 for the dimensional requirements as specified in BS 410: 1986 (AMD 8255)	
	Aperture size: 4 mm to 125 mm	0.06 mm
	Pitch of holes: 5.8 mm to 160 mm	0.08 mm
	Bridge width: minimum 0.9 mm to 17.5 mm	0.06 mm
	Plate thickness: 1 mm to 3 mm	0.10 mm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED[@]** 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurement - Time measurement - Stopwatch / timer	Calibration for time in accordance with in-house procedure GE-TM-044 over the following range: 5 s to 3600 s	 0.05 s

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED[@]** 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related quantities - Angle - Engineer's try square length of the inner edge of blade: 35 mm to 285 mm	Calibration for deviation from squareness in accordance with in-house procedure GE-TM-163 over the following range : 20 μm to 500 μm	 20 μm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related quantities (cont'd) - Length		
- Callipers (vernier, dial and digital type)	Calibration for external, internal and depth measurement in accordance with in-house procedure GE-TM-070 using reference gauge blocks over the following range:	
	0 mm to 300 mm	0.03 mm
- Coating thickness gauge	Calibration for thickness in accordance with in-house procedure GE-TM-80 over the following ranges:	
	11.7 µm to 100 µm above 100 µm to 1002 µm above 1002 µm to 5065 µm	1 µm 3 µm 6 µm
- Dial gauge	Calibration for length in accordance with BS 907: 2008 + Corr. 1 B.3 using reference micrometer head and gauge blocks over the following ranges:	
	0 mm to 5 mm above 5 mm to 30 mm above 30 mm to 50 mm above 50 mm to 100 mm	8 µm 8 µm 8 µm 9 µm
- Dipmeter / water level measuring tape	Calibration for length in accordance with in-house procedure GE-TM-205 over the following range:	
	2 m to 100 m	3.6 + 3.4ℓ mm, where ℓ is the length in m
- Displacement transducer	Calibration for length in accordance with in-house procedure GE-TM-169 using reference gauge blocks over the following range:	
	0 mm to 50 mm	3 µm

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED[@]** 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related quantities (cont'd) - Length (cont'd)		
- Engineer's steel rule	Calibration for length in accordance with in-house procedure GE-TM-043 using a reference steel rule over the following ranges:	
	1 mm to 1000 mm	0.4 mm
	above 1000 mm to 2000 mm	0.5 mm
- External micrometer	Calibration for length in accordance with BS 870: 2008 + Corr. 1 & 2 Annex A using reference gauge blocks and optical flats over the following range:	
	0 mm to 25 mm	3 µm
- Extensometer		
- Grade C gauge length : 50 mm, 100 mm, 300 mm, 500 mm	On-site calibration for displacement using a calibration rig and verification for grade in accordance with BS 3846: 1970 (excluding determination of calibration factor)	
- Grade D gauge length : 50 mm, 100 mm, 300 mm, 500 mm	0.004 mm to 5 mm	1.3 µm
- Class 1 gauge length : 50 mm, 100 mm, 300 mm, 500 mm	On-site calibration for displacement using a calibration rig and verification for class in accordance with BS EN ISO 9513: 2002, or BS EN ISO 9513: 2012 over the following range:	
	0.004 mm to 5 mm	1.3 µm
- Feeler gauge	Calibration for thickness of blade in accordance with in-house procedure GE-TM-181 over the following range:	
	0.01 mm to 2 mm	3 µm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related quantities (cont'd) - Length (cont'd)		
- Measuring tape (steel tape)	Calibration for length in accordance with in-house procedure GE-TM-089 over the following ranges:	
	1 m to 5 m	0.78 + 0.4ℓ mm, where ℓ is the length in m
	above 5 m to 100 m	1.6 + 0.8ℓ mm, where ℓ is the length in m
	above 100 m to 200 m	1.6 + 0.9ℓ mm, where ℓ is the length in m
- Measuring tape (fiberglass and plastics)	Calibration for length in accordance with in-house procedure GE-TM-089 over the following range:	
	2 m to 100 m	1.6 + 0.8ℓ mm, where ℓ is the length in m
- Plastic foil	Calibration for thickness in accordance with in-house procedure GE-TM-081 over the following ranges:	
	11.7 µm to 1002 µm	3 µm
	above 1002 µm to 5065 µm	5 µm

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED[@]** 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related quantities (cont'd) - Rotational speed - Centrifuge	Calibration for rotational speed in accordance with in-house procedure GE-TM-121 over the following range: 300 rpm to 18000 rpm	 0.8 rpm to 10 rpm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED[@]** 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities - Force - Compression testing machine	On-site calibration for compressive force using Grade 1.0 load cells and verification for grade in accordance with constant true force method of BS 1610: Part 1: 1985, or BS 1610: Part 1: 1992 over the following range:	
	50 kN to 3000 kN	0.5 % of reading
	On-site calibration for compressive force using Class 1 load cells and verification for class in accordance with constant true force method of BS EN 12390-4: 2000 Annex B, or CS1: 2010 Vol.2 App. D over the following range:	
	50 kN to 3000 kN	0.5 % of reading
	On-site calibration for compressive force using Class 1 load cells and verification for class in accordance with constant true force method BS EN ISO 7500-1: 2004, BS EN ISO 7500-1: 2015, or BS EN ISO 7500-1: 2018 over the following range:	
	50 kN to 3000 kN	0.5 % of reading
	On-site verification for strain ratio by performing strain gauged column and proving test (stability test) in accordance with BS 1881: Part 115: 1986 (AMD 6536), CS1: 2010 Vol.2 App. D, BS EN 12390-4: 2000 Table 3 and Annex A, or BS EN 12390-4: 2019 Table 1 and Annex A (excluding A.3) over the following range :	0.13 strain ratio
	200 kN to 2000 kN	

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related quantities (cont'd) - Force (cont'd)		
- Load cell in compression mode	On-site calibration for compressive force in accordance with GEOSPEC 3:2001 App. A.3.1, or GEOSPEC 3:2017 App. A.3.1, or over the following ranges:	
	0.25 kN to 25 kN	1 % of reading
- Proving ring in compression mode	On-site calibration for compressive force in accordance with GEOSPEC 3:2001 App. A.3.1, or GEOSPEC 3:2017 App. A.3.1, or over the following ranges:	
	0.3 kN to 50 kN	1 % of reading
- Load cell in compression mode	Calibration for compressive force in accordance with in-house procedure GE-TM-199 over the following ranges:	
	0.2 kN to 5 kN	0.8 % of reading
	above 5 kN to 50 kN	0.3 % of reading
	above 50 kN to 400 kN	0.3 % of reading
	above 400 kN to 2000 kN	0.3 % of reading

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related quantities (cont'd) - Force (cont'd) - Universal testing machine in compression mode	On-site calibration for compressive force using Grade 1.0 load cells and verification for grade in accordance with constant true force method of BS 1610: Part 1: 1985, or BS 1610: Part 1: 1992 over the following range:	
	0.2 kN to 2000 kN	0.2 % of reading
	On-site calibration for compressive force using Class 1 load cells and verification for class in accordance with constant true force method of BS EN 12390-4: 2000 Annex B, or CS1: 2010 Vol.2 App. D over the following range:	
	0.2 kN to 2000 kN	0.2 % of reading
	On-site calibration for compressive force using Class 1 load cells and verification for class in accordance with constant true force method of BS EN ISO 7500-1: 2004, BS EN ISO 7500-1: 2015, or BS EN ISO 7500-1: 2018 over the following range:	
	0.2 kN to 2000 kN	0.2 % of reading

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED[@]** 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities (cont'd) - Force (cont'd) - Pull-off tester	Calibration for tensile force in accordance with in-house procedure GE-TM-221 over the following range :	
	1 kN to 15 kN	0.5 % of reading
- Universal testing machine in tension mode	On-site calibration for tensile force using Grade 1.0 load cells and verification for grade in accordance with constant true force method of BS 1610: Part: 1: 1985 over the following range :	
	0.2 kN to 2000 kN	1.0 % of reading
	On-site calibration for tensile force using Class 1 load cells and verification for class in accordance with constant true force method of BS EN ISO 7500-1: 2004, BS EN ISO 7500-1: 2015, or BS EN ISO 7500-1: 2018 over the following range :	
	0.2 kN to 2000 kN	1.0 % of reading

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related quantities (cont'd) - Mass - Electronic balance	Calibration for mass using following OIML Class standard weights (1) E2 weights from 1 mg to 200 g (2) F1 weights from 1 mg to 10 kg (3) F2 weights from 20 kg in accordance with in-house procedure GE-TM-065 over the following ranges :	
	1 mg to 220 g	0.4 mg
	above 220 g to 620 g	0.004 g
	above 620 g to 6.2 kg	0.02 g
	above 6.2 kg to 30 kg	0.33 g
	above 30 kg to 50 kg	7.9 g
	On-site calibration for mass using following OIML Class standard weights (1) E2 weights from 1 mg to 200 g (2) F1 weights from 1 mg to 10 kg (3) F2 weights from 20 kg in accordance with in-house procedure GE-TM-065 over the following ranges :	
	1 mg to 220 g	0.4 mg
	above 220 g to 620 g	0.004 g
	above 620 g to 6.2 kg	0.02 g
	above 6.2 kg to 30 kg	0.33 g
	above 30 kg to 50 kg	7.9 g

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED[@]** 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities (cont'd) - Mass (cont'd) - Weight	Calibration for mass in accordance with in-house procedure GE-TM-069 for the following weights:	
	1 mg	0.03 mg
	2 mg	0.03 mg
	5 mg	0.03 mg
	10 mg	0.03 mg
	20 mg	0.03 mg
	50 mg	0.04 mg
	100 mg	0.04 mg
	200 mg	0.05 mg
	500 mg	0.05 mg
	1 g	0.05 mg
	2 g	0.07 mg
	5 g	0.07 mg
	10 g	0.09 mg
	20 g	0.1 mg
	50 g	0.12 mg
	100 g	0.2 mg
	200 g	0.4 mg
	500 g	0.06 g
	1 kg	0.06 g
	2 kg	0.06 g
	5 kg	0.06 g
	10 kg	0.3 g
	20 kg	0.3 g
- Weight (non-standard weight)	Calibration for mass in accordance with in-house procedure GE-TM-069 by direct weighting at:	
	25 kg	0.3 g

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related quantities (cont'd) - Pressure		
- Pressure gauge	Calibration for gauge pressure in accordance with in-house procedure GE-TM-217 by comparison with reference pressure gauge using air as pressure medium over the following ranges:	
	1 kPa to 10 kPa	3.0 % of reading
	above 10 kPa to 7000 kPa	0.4 % of reading
- Pressure gauge	On-site calibration for hydraulic pressure in accordance with GEOSPEC 3:2001 App. A.3.2 or GEOSPEC 3:2017 App. A.3.2 using water as pressure medium over the following range:	
	85 kPa to 850 kPa	0.6 % of reading
- Pressure gauge	Calibration for hydraulic pressure in accordance with in-house procedure GE-TM-216 by comparison with reference pressure gauge using water as pressure medium over the following ranges:	
	20 kPa to 100 kPa	1.1 % of reading
	above 0.1 MPa to 40 MPa	0.6 % of reading
- Pressure gauge	Calibration for hydraulic pressure in accordance with in-house procedure GE-TM-172 by comparison with reference pressure gauge using oil as pressure medium over the following ranges:	
	20 kPa to 207 kPa	0.3 % of reading
	above 207 kPa to 2068 kPa	0.4 % of reading
	above 2068 kPa to 21 MPa	0.4 % of reading
	above 21 MPa to 62 MPa	0.3 % of reading
- Vacuum gauge	Calibration for pressure in accordance with in-house procedure GE-TM-207 using gas as pressure medium over the following range :	
	- 98 kPa to - 5 kPa	0.6 % of reading

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED[@]** 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities (cont'd) - Volume - Plastic volumetric devices (receiving)	Calibration for volume in accordance with in-house procedure GE-TM-185 over the following ranges :	
	2 ml to 10 ml	0.12 ml
	above 10 ml to 100 ml	0.72 ml
	above 100 ml to 1000 ml	2.15 ml
	above 1000 ml to 3000 ml	23.94 ml

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED[@]** 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Temperature and humidity measurements - Temperature and humidity chamber with a capacity from 150 l to 1000 l	On-site calibration for temperature and relative humidity in accordance with in-house procedure GE-TM-203 over the following ranges :	
	Temperature : 20 ℃ to 30 ℃	0.8 K
	Relative humidity : 90 %rh to 95 %rh at 20 ℃ to 30 ℃	5 %rh

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED[@]** 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Temperature measurement - Furnace with a capacity less than 0.06 m^3	On-site calibration for temperature in accordance with in-house procedure GE-TM-079 over the following range: 400 ℃ to 1175 ℃	 4.2 K
- Refrigerator with a capacity less than 0.3 m^3	On-site calibration for temperature in accordance with in-house procedure GE-TM-200 over the following range: -20 ℃ to 5 ℃	 0.9 K
- Dial type thermometer	Calibration for temperature in accordance with in-house procedure GE-TM-218 by direct comparison with reference digital thermometer over the following range: 0 ℃ to 200 ℃	 0.7 K
- Digital thermometer	Calibration for temperature in accordance with in-house procedure GE-TM-168 by direct comparison with reference digital thermometer over the following ranges: -10 ℃ to 80 ℃ above 80 ℃ to 230 ℃	 0.26 K 0.26 K

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED[@]** 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Temperature measurement (cont'd)		
- Liquid in glass thermometer (LIGT)	Calibration for temperature in accordance with in-house procedure GE-TM-171 by direct comparison with reference digital thermometer over the following ranges:	
	-10 ℃ to 80 ℃	0.5 K
	above 80 ℃ to 230 ℃	0.5 K
- Water bath	On-site calibration for temperature in accordance with in-house procedure GE-TM-041 over the following range:	
- Capacity less than 0.70 m^3	20 ℃ to 80 ℃	0.7 – 1.7 K

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Adhesive	Pull-off test of repair mortar	Hong Kong Housing Authority Material Testing Services (2022/2024) for Maintenance & Building Materials (Package D1) Specification Part D Cl. 2.1.15 Method 1 Hong Kong Housing Authority Material Testing Services (2022/2024) for Maintenance & Building Materials (Package D2) Specification Part D Cl. 2.1.15 Method 1
	Pull-off test of tiles	Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance & Building Materials (Package D1) Specification Part D Cl.7.11 Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance & Building Materials (Package D1) Specification Part D Cl.7.11 with modification Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance & Building Materials (Package D2) Specification Part D Cl.7.11 Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance & Building Materials (Package D2) Specification Part D Cl.7.11 with modification Hong Kong Housing Authority Specification Library (2018) FIN5.T150.A(3) Hong Kong Housing Authority Specification Library (2018) FIN5.T150.A(3) with modification Hong Kong Housing Authority Specification Library (2022) FIN5.T150.9(3) Hong Kong Housing Authority Specification Library (2022) FIN5.T150.9(3) with modification
Admixture (chemical analysis)	Acid soluble alkali content (equivalent Na2O)	BS EN 480-12 : 2005
	Ash content	BS 5075 : Part 1 : 1982 App. D.2 (Amd 11057)
	Chloride ion content	BS 5075 : Part 1 : 1982 App. E (Amd 11057)
	Water soluble chloride content	BS EN 480-10: 2009 Method 3
	Dry material content	BS 5075 : Part 1 : 1982 App. D.1 (Amd 11057)
	Conventional dry material content	BS EN 480-8: 2012
	pH of liquid admixture	ISO 4316 : 1977
	Density (liquid)	ISO 758: 1976
	Relative density of liquid admixture	BS 5075 : Part 1 : 1982 App. D.3 (Amd 11057)

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Aggregates	Sampling	BS 812: Part 102: 1989 BS EN 932-1: 1997 CS3: 2013 Section 8
	Particle size distribution	BS 812: Section 103.1: 1985 + Amd. 6003 (by sieve analysis) BS EN 933-1: 2012 (by sieve method) CS3: 2013 Section 10 + Amd. 1/2013 (by sieve analysis)
	Flakiness index	BS 812: Section 105.1: 1989 BS EN 933-3: 2012 CS3: 2013 Section 11
	Elongation index	BS 812: Section 105.2: 1990 CS3: 2013 Section 12
	Methylene blue value	CS3: 2013 Section 13
	Los Angeles value	CS3: 2013 Section 14
	Aggregate impact value	BS 812: Part 112: 1990 + Amd. 8772 CS3: 2013 Section 15
	Ten per cent fines value	BS 812: Part 111: 1990 CS3: 2013 Section 16
	Particle density and water absorption	BS 812: Part 2: 1995 + Amd. 9195 & 10379 (Gas jar method or Pycnometer method) CS3: 2013 Section 17 (Gas jar method or Pycnometer method)
	Moisture content	BS 812: Part 109: 1990 (by oven drying method) BS EN 1097-5: 2008 (by oven drying method) BS EN 1097-5: 2008 with modifications CS3: 2013 Section 18 (by oven drying method)

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Aggregates (cont'd)	Soundness	ASTM C88-05 BS 812: Part 121: 1989 BS EN 1367-2: 2009 CS3: 2013 Section 19
	Aggregate crushing value	BS 812: Part 110: 1990
	Bulk density, voids and bulking	BS 812: Part 2: 1995 + Amd. 9195 & 10379
	Clay, silt and dust content	BS 812: Part 1: 1975 + Amd. 2069, 4527, 4875 (by decantation method)
	Compaction fraction value of aggregates for granular bed	General Specification for Civil Engineering Works (1992) Vol. 1 App. 5.2 + Amd. No. 2/2002 General Specification for Civil Engineering Works (2006) Vol. 1 App. 5.2 + Amd. No. 3/2019 General Specification for Civil Engineering Works (2020) Vol. 1 App. 5.2 + Amd. No. 3/2022
	Foreign material content in recycled aggregates	Building Research Establishment Digest 433 (Nov 1998) Hong Kong Housing Authority Materials Testing Services (2022/2024) for Construction Materials (Package A3) Part D Cl. 1.5.2 in conjunction with the following specification(s): CS3: 2013 Section 3.6
	Grading of filler aggregates (air jet sieving)	BS EN 933-10: 2009 BS EN 933-10: 2009 with modifications
	Loose bulk density and void	BS EN 1097-3: 1998
	Particle density and water absorption (Wire basket method)	BS 812: Part 2: 1995 + Amd. 9195 & 10379 Cl. 5.3 BS EN 1097-6: 2013 Cl. 7 BS EN 1097-6: 2022 Cl. 7 CS3: 2013 + Amd. No. 1/2016 Cl. 17.4
	Particle density and water absorption (Pyknometer method)	BS EN 1097-6: 2013 Cl. 8 and 9 BS EN 1097-6: 2022 Cl. 8 and 9

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Aggregates (cont'd)	Resistance of aggregates to fragmentation	BS EN 1097-2: 2010 Cl. 5 BS EN 1097-2: 2020 Cl. 5
	Resistance to degradation of small size coarse aggregate by abrasion and impact in Los Angeles machine	ASTM C131-96 with modifications (excluding Cl. 7) ASTM C131-06 ASTM C131/C131M-14 with modifications (excluding Cl. 7.1) ASTM C131/C131M-20 with modifications (excluding Cl. 7.1)
	Resistance to degradation of large size coarse aggregate by abrasion and impact in Los Angeles machine	ASTM C535-96 with modifications (excluding Cl. 7)
	Reduction of laboratory samples	BS EN 932-2: 1999 (excluding Cl. 7 & Cl. 12)
	Shape index	BS EN 933-4: 2008
	Shell content in coarse aggregates	BS 812: Part 106: 1985 BS EN 933-7: 1998
	Sand equivalent test	BS EN 933-8: 2012 + A1: 2015

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Aggregate (chemical analysis)	Acid-soluble material content	BS 812: Part 119: 1985 *Excluding Cl. 4*
	Total sulphate content (acid extraction)	BS 812: Part 118: 1988 Cl. 6
	Acid-soluble sulphate content	BS EN 1744-1: 2009 Cl. 12 *Excluding 12.2* CS3 : 2013 Section 21 Cl. 21.5
	Total sulphur content	BS EN 1744-1 : 2009 Cl. 11.1 *Excluding 11.1.2* CS 3 : 2013 Section 21.6
	Water-soluble chloride salts content	BS EN 1744-1: 2009 Cl. 7 *Excluding Cl. 7.2*
	Water-soluble chloride salts	BS 812: Part 117: 1988 *Excluding Cl. 4*
	Water-soluble chloride ion content	CS3: 2013 Cl. 21.3
	Acid soluble chloride content	CS 3: 2013 Section 21.4
	Presence of humus	CS 3: 2013 Section 21.7
	Soluble calcium oxide content	Hong Kong Housing Authority Material Testing Services Term Contract (2022/2024) for Construction Materials (Package A3) Part D Cl. 1.4.9
	Soluble silica content	Hong Kong Housing Authority Material Testing Services Term Contract (2022/2024) for Construction Materials (Package A3) Part D Cl. 1.4.9

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Bituminous materials	Air voids content of bituminous specimens	BS EN 12697-8: 2003
	Binder content and aggregate grading of bituminous samples	BS 598-102: 1996 + Amd. 1 Method 5.2 BS 598-102: 2003 + Amd. 1 Method 5.2
	Binder content and particle size distribution of polymer modified friction course material	General Specification for Civil Engineering Works (2020) Vol. 1 App. 9.2
	Bitumen content of bituminous paving materials by ignition method	ASTM D6307-98 ASTM D6307-05 ASTM D6307-16 ASTM D6307-19
	Bulk density of compacted bituminous specimens	BS EN 12697-6: 2003 (Procedure A) BS EN 12697-6: 2003 (Procedure B)
	Bulk specific gravity and density of compacted bituminous mixtures using automatic vacuum sealing method	ASTM D6752/D6752M-11 (excluding Cl. 5) ASTM D6752/D6752M-18 (excluding Cl. 6) ASTM D6752/D6752M-18 (excluding Cl. 6) with modifications
	Bulk specific gravity and density of non-absorptive compacted bituminous mixtures	ASTM D2726-88 (Method 9.1) ASTM D2726-96a (Method 9.1) ASTM D2726/D2726M-14 (Method 10.1 & 10.2) ASTM D2726/D2726M-21 (Method 10.1 & 10.2)
	Density, stability and flow of bituminous mixtures using Marshall Apparatus	ASTM D1559-89
	Mechanical size analysis of extracted aggregate	ASTM D5444-15 with modifications
	Percentage air voids in compacted dense bituminous paving mixtures	ASTM D3203-88 ASTM D3203-94 ASTM D3203/D3203M-11 ASTM D3203/D3203M-17
	Polymer modified binder content and particle size distribution of polymer modified friction course and cushion course materials by centrifuge method and ignition method	Particular Specification for Highways Department Guidance Notes on Road Surface Requirements for Expressways and High Speed Roads RD/GN/032 (Jun 2007) App. B

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Bituminous materials (cont'd)	Quantitative extraction of bitumen from bituminous paving mixtures	ASTM D2172-95 (Method A using ashing method) ASTM D2172/D2172M-17e1 (Method A using ashing method)
	Reduction of bituminous materials to testing size	ASTM C702-98
	Resistance of compacted asphalt mixtures to moisture induced damage	AASHTO T283-07
	Sieve analysis of fine and coarse aggregates and materials finer than 75 micron sieve in mineral aggregates by washing	ASTM C117-95 ASTM C117-13 ASTM C117-17 ASTM C136-96a with modifications ASTM C136/C136M-14 with modifications ASTM C136/C136M-19 with modifications
	Sieve analysis of mineral filler for asphalt paving mixtures	ASTM D546-17 with modifications (excluding Cl. 6)
	Theoretical maximum specific gravity and density of bituminous paved mixtures	ASTM D2041-95 (weighing in water method) ASTM D2041-03a (weighing in water method) ASTM D2041/D2041M-11 (weighing in water method) ASTM D2041/D2041M-19 (weighing in water method)
	Thickness or height of compacted asphalt mixture specimens	ASTM D3549-93a ASTM D3549/D3549M-17 Method A ASTM D3549/D3549M-18 Method A
Bituminous materials (pure bitumen)	Density of semi-solid and solid bituminous materials by nickel crucible method	ASTM D3289-17
	Ductility of bituminous materials	ASTM D113-07 ASTM D113-17
	Effects of heat and air on asphaltic materials (Thin-film oven test)	ASTM D1754/D1754M-09 (Reapproved 2014) ASTM D1754/D1754M-20
	Flash and fire points by Cleveland Open Cup	ASTM D92-18 AASHTO T48-06 (2015)
	Flash point by Cleveland Open Cup	AASHTO T48-22

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Bituminous materials (pure bitumen) (cont'd)	Loss in mass after heating of industrial bitumen	BS 2000: Part 506: 2009 BS 2000: Part 506: 2017 BS EN 13303: 2009 BS EN 13303: 2017
	Needle penetration of bituminous materials	BS 2000: Part 49: 1993
	Penetration of bituminous materials	ASTM D5/D5M-13 ASTM D5/D5M-20
	Softening point of bitumen by ring and ball method	ASTM D36-95 (Reapproved 2000) BS 2000: Part 58: 2007 BS 2000: Part 58: 2015 BS EN 1427: 2015
	Solubility of asphalt materials in trichloroethylene	ASTM D2042-15
	Storage stability of polymer modified binders	Hong Kong International Airport General Materials & Workmanship Specification (GMWS) Vol. 4 Airfield Works Issue No. 6 (Apr 2018) App. A132.6.1 Method A
	Viscosity of asphalt at elevated temperatures using a rotational viscometer	ASTM D4402/D4402M-15
	Viscosity of asphalt binder by a rotational viscometer	AASHTO T 316-13 (2017) AASHTO T 316-13 (2017) with modifications AASHTO T 316-22
	Viscosity of asphalt by a vacuum capillary viscometer	ASTM D2171/D2171M-10 ASTM D2171/D2171M-18

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Blocks and Bricks	Bending strength of paving flags	BS 7263-1: 2001 Annex E in conjunction with the following specification: General Specification for Civil Engineering Works (2006) Vol.1 + Amd. 1/2020 Cl.11.84 (3) General Specification for Civil Engineering Works (2020) Vol.1 Cl. 11.84 (3)
	Bending strength and breaking load of paving flags	BS EN 1339: 2003 + Corr. 1: 2006 Annex F in conjunction with the following specification: BS EN 1339: 2003 + Corr. 1: 2006 Table 5 & 7
	Dimensions of paving blocks	BS 6717: 2001 Cl. 5.1, 5.2 & Annex B BS EN 1338: 2003 + Corr.1: 2006 Cl. 5.1, 5.2 & Annex C in conjunction with the following specification: General Specification for Civil Engineering Works (2020) Vol. 1 Cl. 11.86 (4)
	Dimensions of paving flags	BS 7263-1: 2001 Cl. 5.1, 5.2 & Annex B BS EN 1339: 2003 + Corr. 1: 2006 Cl. 5.1, 5.2 & Annex C in conjunction with the following specification: General Specification for Civil Engineering Works (2020) Vol. 1 Cl. 11.86 (4)
	Slip/skid resistance of paving blocks and flags using a portable pendulum tester	BS EN 1338: 2003 + Amd. 16470 Cl. 5.3.5 & Annex I BS EN 1339: 2003 + Amd. 16476 Cl. 5.3.5 & Annex I BS EN 1342: 2012 Cl. 4.6.1 & BS EN 14231: 2003 BS EN 1344: 2002 Annex F BS EN 1344: 2013 + Corr. May 2015 Cl. 4.2.5.2 & CEN/TS 16165: 2012 Annex C in conjunction with the following specification(s): General Specification for Civil Engineering Works (2020) Vol. 1 Cl. 11.87 (2)-(5)
	Water absorption of masonry units, segmental pavers and flags	AS-NZS 4456.14: 1997 AS-NZS 4456.14: 2003 + Amd. 1 & 2 General Specification for Civil Engineering Works (2006) Vol. 1 + Amd. 1/2020 Cl. 11.88 (2)-(4) General Specification for Civil Engineering Works (2020) Vol. 1 Cl. 11.88 (2)-(4)

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Cement (Chemical analysis)	Alkali content	BS EN 196-21: 1992 Cl. 7 BS EN 196-2: 2005 Cl. 17 (reference method) BS EN 196-2 : 2013 Cl. 4.5.19 (reference method)
	Sodium oxide content	BS EN 196-21: 1992 Cl. 7 BS EN 196-2: 2005 Cl. 17 (reference method) BS EN 196-2 : 2013 Cl. 4.5.19 (reference method)
	Potassium oxide content	BS EN 196-21: 1992 Cl. 7 BS EN 196-2: 2005 Cl. 17 (reference method) BS EN 196-2 : 2013 Cl. 4.5.19 (reference method)
	Aluminium oxide content	BS EN 196-2: 1995 Cl. 13.11 BS EN 196-2: 2005 Cl. 13.11 BS EN 196-2 : 2013 Cl. 4.5.11
	Calcium oxide content (CaO)	BS EN 196-2: 1995 Cl. 13.14 in conjunction with Cl. 13.16 (alternative method) BS EN 196-2: 2005 Cl. 13.14 (alternative method) BS EN 196-2 : 2013 Cl. 4.5.14 (alternative method)
	Chloride content	BS EN 196-21: 1992 Cl. 4 BS EN 196-2: 2005 Cl. 14 BS EN 196-2 : 2013 Cl. 4.5.16
	Iron (III) oxide content (Fe_2O_3)	BS EN 196-2: 2005 Cl. 13.10 BS EN 196-2 : 2013 Cl. 4.5.10
	Magnesium oxide content (MgO)	BS EN 196-2: 1995 Cl. 13.15 in conjunction with Cl. 13.16 (alternative method) BS EN 196-2: 2005 Cl. 13.15 (alternative method) BS EN 196-2 : 2013 Cl. 4.5.15 (alternative method)
	Loss-on-ignition (L.O.I.)	BS EN 196-2: 1995 Cl. 7 BS EN 196-2: 2005 Cl. 7 BS EN 196-2 : 2013 Cl. 4.4.1
	Manganese content (Mn)	BS EN 196-2: 1995 Cl. 12 BS EN 196-2: 2005 Cl. 12 BS EN 196-2 : 2013 Cl. 4.4.6
	Manganese oxide content (MnO)	BS EN 196-2: 1995 Cl. 12 BS EN 196-2: 2005 Cl. 12 BS EN 196-2 : 2013 Cl. 4.4.6

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Cement (Chemical analysis) (cont'd)	Manganese trioxide content (Mn_2O_3)	BS EN 196-2: 1995 Cl. 12 BS EN 196-2: 2005 Cl. 12 BS EN 196-2 : 2013 Cl. 4.4.6
	Sulphate content (as SO_3)	BS EN 196-2: 1995 Cl. 8 BS EN 196-2: 2005 Cl. 8 BS EN 196-2 : 2013 Cl. 4.4.2
	Residue insoluble in hydrochloric acid and sodium carbonate	BS EN 196-2: 1995 Cl. 9 BS EN 196-2: 2005 Cl. 9 BS EN 196-2 : 2013 Cl. 4.4.3
	Residue insoluble in hydrochloric acid and potassium hydroxide	BS EN 196-2: 1995 Cl. 10 BS EN 196-2: 2005 Cl. 10 BS EN 196-2 : 2013 Cl. 4.4.4
	Total silica content (Decomposition by sodium peroxide)	BS EN 196-2: 1995 Cl. 13.2 & 13.9 BS EN 196-2: 2005 Cl. 13.2 & 13.9 BS EN 196-2 : 2013 Cl. 4.5.2 & 4.5.9
	Pure silica content (Decomposition by sodium peroxide)	BS EN 196-2: 1995 Cl. 13.2 & 13.6 BS EN 196-2: 2005 Cl. 13.2 & 13.6 BS EN 196-2 : 2013 Cl. 4.5.2 & 4.5.6
	Soluble silica content (Decomposition by sodium peroxide)	BS EN 196-2: 1995 Cl. 13.2 & 13.8 BS EN 196-2: 2005 Cl. 13.2 & 13.8 BS EN 196-2 : 2013 Cl. 4.5.2 & 4.5.8
	Heat of hydration	BS 4550: Part 3: Section 3.8: 1978 with modification
Cement stabilised soil	Unconfined compressive strength of cement stabilised soil cores (with or without capping)	Interim Guidelines on Testing of Unconfined Compressive Strength of Cement Stabilised Soil Cores in Hong Kong (Oct 2017) App. B published by Geotechnical Division of The Hong Kong Institution of Engineers

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Coating	Coating adhesion test	BS 7295: Part 1: 1990 + Amd. 6955 Cl. 4.3 Hong Kong Housing Authority Specification Library (2018) CON3.T450.8 Hong Kong Housing Authority Specification Library (2022) CON3.T450.9
	Coating continuity test	ASTM A775/A775M-17 Cl. 8.2 BS 7295: Part 1: 1990 + Amd. 6955 Cl. 4.2 Hong Kong Housing Authority Specification Library (2018) CON3.T450.8 Hong Kong Housing Authority Specification Library (2022) CON3.T450.9
	Coating flexibility test	ASTM A775/A775M-17 Cl. 8.3
	Coating thickness	ASTM A775/A775M-17 Cl. 8.1 BS EN ISO 2808: 2019 Method 7B.2 & BS EN ISO 2178: 2016 Cl. 7 in conjunction with the following specification(s): BS EN ISO 1461: 2009 Cl. 6.2.2 & 6.2.3
	Mass per unit area of hot dip galvanized coating by gravimetric method	BS EN 10346: 2015 Annex A BS EN ISO 1460: 2020 in conjunction with the following specification(s) BS EN ISO 1461: 2022 Cl. 6.2.2 & 6.2.3
Concrete	Sampling of fresh concrete on site	BS EN 12350-1: 2009 BS EN 12350-1: 2019 CS1: 2010 Section 1
	Slump of fresh concrete	BS EN 12350-2: 2009 BS EN 12350-2: 2019 CS1: 2010 + Amd. 1/2017 Section 2 Part I
	Compacting factor of fresh concrete	CS1: 2010 Section 2 Part II
	Flow table test	BS EN 12350-5: 2009 BS EN 12350-5: 2019 CS1: 2010 Section 2 Part IV
	Slump flow test	CS1: 2010 Section 2 Part V
	Stiffening time of fresh concrete	BS 5075: Part 1: 1982 + Amd. 4183 App. C4 CS1: 2010 Section 3

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Concrete (cont'd)	Density of compacted fresh concrete	BS EN 12350-6: 2000 + Amd. 11077 CS1: 2010 Section 5
	Air content of fresh concrete (by air column method)	BS EN 12350-7: 2000 Cl. 4 CS1: 2010 Section 6
	Making test cubes from fresh concrete	BS EN 12390-2: 2009 BS EN 12390-2: 2019 CS1: 2010 Section 7
	Making test beams from fresh concrete	CS1: 2010 Section 8
	Making test cylinders from fresh concrete	CS1: 2010 + Amd. 1/2023 Section 9
	Curing of specimens	BS EN 12390-2: 2009 BS EN 12390-2: 2019
	Depth of penetration of water under pressure	CS1: 2010 + Amd. No. 1/2013 Section 18
	Concrete's ability to resist chloride ion penetration	AASHTO T277-93 ASTM C1202-05 ASTM C1202-07 CS1: 2010 Section 19
	Degree of compatibility	BS EN 12350-4: 2009 BS EN 12350-4: 2019
	Removal of concrete cover to expose reinforcement	Hong Kong Housing Authority Material Testing Services (2022/2024) for Maintenance & Building Materials (Package D1) Specification Part D Cl. 4.2.1 Hong Kong Housing Authority Material Testing Services (2022/2024) for Maintenance & Building Materials (Package D2) Specification Part D Cl. 4.2.1
	Cutting out reinforcement	Hong Kong Housing Authority Material Testing Services (2022/2024) for Maintenance & Building Materials (Package D1) Specification Part D Cl. 4.2.3 Hong Kong Housing Authority Material Testing Services (2022/2024) for Maintenance & Building Materials (Package D2) Specification Part D Cl. 4.2.3

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Concrete (cont'd)	Crack survey	Hong Kong Housing Authority Material Testing Services (2022/2024) for Maintenance & Building Materials (Package D1) Part D Cl. 4.3.14 Hong Kong Housing Authority Material Testing Services (2022/2024) for Maintenance & Building Materials (Package D2) Part D Cl. 4.3.14
	Dry cutting mini-cores	Hong Kong Housing Authority Material Testing Services (2022/2024) for Maintenance & Building Materials (Package D1) Part D Cl. 6.2 Hong Kong Housing Authority Material Testing Services (2022/2024) for Maintenance & Building Materials (Package D2) Part D Cl. 6.2
	Obtaining drilling powder samples	Hong Kong Housing Authority Material Testing Services (2022/2024) for Maintenance & Building Materials (Package D1) Specification Part D Cl. 6.4 Hong Kong Housing Authority Material Testing Services (2022/2024) for Maintenance & Building Materials (Package D2) Specification Part D Cl. 6.4
	Bleeding test	ASTM C232-99 Method A ASTM C232-09 Method A BS EN 480-4: 2005
	Heat of hydration monitoring of concrete temperature	In-house method CO-TM-153
	L box test for self-compacting concrete	BS EN 12350-10: 2010 excluding Cl.5
	Temperature measurement of fresh concrete	BS 5328: Part 4: 1990 Cl. 3.4 (b) in conjunction with the following specification(s): BS EN 206: 2013 + A2: 2021 Cl. 5.2.9
	Temperature monitoring of fresh concrete	Mass Transit Railway Corporation Specification D/MTRCL/NW/CIV/M&W/002/A3, Cl. 11.40 (10) Mass Transit Railway Corporation Specification D/MTRCL/NW/CIV/M&W/002/A3, Cl. 11.82 & 11.83

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Concrete (diagnostic)	Carbonation test	Building Research Establishment Information Paper IP 6/81 BS EN 14630: 2006
	Covermeter survey	BS 1881: Part 204: 1988
	Half-cell potential measurement	ASTM C876-91 (Reapproved 1999) ASTM C876-15
	Infrared thermography for detection of building surface defects	Hong Kong Concrete Institute TM1 (2009) Hong Kong Concrete Institute TM1 Issue 2 (2022)
	Surface hardness measurement	BS 1881: Part 202: 1986 BS EN 12504-2: 2001 BS EN 12504-2: 2012 BS EN 12504-2: 2021
	Ultrasonic pulse velocity measurement	BS 1881: Part 203: 1986 (by direct transmission) BS EN 12504-4: 2004 (by direct and semi-direct transmission)

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Concrete (chemical analysis)	Detection of PFA	CS 1: 2010 Section 21.5 (Amd. 1)
	Cement and aggregate content (by CaO determination)	BS 1881: Part 124 : 1988 Cl. 5.4 & 5.9 *Excluding* 5.9.4 BS 1881: Part 124 : 2015 Cl. 6 *Excluding 6.5, 6.6, 6.7 & 6.8* CS1: 2010 Section 21.6.4, 21.6.6 & 21.6.7
	Aggregate / cement ratio	BS 1881: Part 124: 1988 Cl. 5.9 (based on CaO content) BS 1881: Part 124: 2015 Cl. 6.9 (based on CaO content)
	Original water/cement ratio (as original total water/cement ratio)	CS1: 2010 Sections 21.7.4 & 21.7.6
	Carbonate content	CS1: 2010 Section 21.10.4.2
	Chloride content	BS 1881: Part 124 : 1988 Cl. 10.2 BS 1881: Part 124 : 2015 Cl. 12.1 CS1: 2010 Section 21.10.2
	Sulphate content	BS 1881: Part 124: 1988 Cl. 10.3 BS 1881: Part 124: 2015 Cl. 12.2 CS1: 2010 Section 21.10.3
	Sodium oxide content	BS 1881: Part 124 : 1988 Cl. 10.4 BS 1881: Part 124 : 2015 Cl. 12.3
	Potassium oxide content	BS 1881: Part 124 : 1988 Cl. 10.4 BS 1881: Part 124 : 2015 Cl. 12.3
	Total alkali content (equivalent Na_2O)	BS 1881: Part 124 : 1988 Cl. 10.4 BS 1881: Part 124 : 2015 Cl. 12.3
	pH value	Hong Kong Housing Authority Materials Testing Services Term Contract (2020/2022) for Construction Materials (Package A2) Part D Cl. 1.4.14 Hong Kong Housing Authority Material Testing Services Term Contract (2022/2024) for Construction Materials (Package A3) Part D Cl. 1.4.14

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Dimension stones	Absorption and bulk specific gravity	ASTM C97/C 97M-09 ASTM C97/C 97M-15
	Modulus of rupture	ASTM C99/C99M-09 ASTM C99/C99M-15
	Compressive strength	ASTM C170/C170M-09 ASTM C170/C170M-15 ASTM C170/C170M-17
	Flexural strength	ASTM C880/C880M-09 ASTM C880/C880M-15 BS EN 12372: 2006
	Strength of individual stone anchorages	ASTM C1354/C1354M-09 ASTM C1354/C1354M-15
Foundation	Plate load test (PLT)	BS 1377: Part 9: 1990 Cl. 4.1 excluding Cl.4.1.6.1 Buildings Department Code of Practice for Foundations (Apr 2017) Cl. 8.2(2) excluding 8.2(2)(f) to (h)
	Ultrasonic echo sounder test (UEST)	Hong Kong Concrete Institute TM3 Issue 2 (2024)

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Grout	Bleeding and free expansion of cement grout	General Specification for Civil Engineering Works (2006) Vol. 2 Cl. 17.60 Hong Kong Housing Authority Specification Library (2022) PIL 1.T320.9
	Curing test specimens	CS1: 2010 Section 10
	Expansion and bleeding of freshly mixed grouts for preplaced-aggregate concrete	ASTM C940-98a (Reapproved 2003) ASTM C940-10a ASTM C940-16
	Flow of grout for preplaced-aggregate concrete (flow cone method)	ASTM C939-94a ASTM C939-97 ASTM C939-16 ASTM C939-16a ASTM C939/C939M-22
	Making of cubes	CS1: 2010 Section 7
Ground granulated blastfurnace slag (chemical analysis)	Loss-on-ignition (L.O.I.)	BS EN 196-2: 1995 Cl. 7 BS EN 15167-1: 2006 (Amd 16763) Cl. 5.2 & BS EN 196-2: 2005 Cl. 7 BS EN 15167-1: 2006 (Amd 16763) Cl. 5.2 & BS EN 196-2 : 2013 Cl. 4.4.1
	Sulphate content (as SO_3)	BS EN 196-2: 1995 Cl. 8 BS EN 15167-1: 2006 (Amd 16763) Cl. 5.2 & BS EN 196-2 : 2005 Cl. 8 BS EN 15167-1: 2006 (Amd 16763) Cl. 5.2 & BS EN 196-2 : 2013 Cl. 4.4.2
	Residue insoluble in hydrochloric acid and sodium carbonate	BS EN 196-2: 1995 Cl. 9 BS EN 196-2: 2005 Cl. 9 BS EN 196-2 : 2013 Cl. 4.4.3
	Soluble silica	BS EN 196-2 : 1995 Cl. 13.8 BS EN 196-2 : 2005 Cl. 13.8 BS EN 196-2 : 2013 Cl. 4.5.8

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Ground granulated blastfurnace slag (chemical analysis) (cont'd)	Pure silica	BS EN 196-2 : 1995 Cl. 13.6 BS EN 196-2 : 2005 Cl. 13.6 BS EN 196-2 : 2013 Cl. 4.5.6
	Total silica content (SiO_2)	BS EN 196-2 : 1995 Cl. 13.9 BS EN 196-2 : 2005 Cl. 13.9 BS EN 196-2 : 2013 Cl. 4.5.9
	Manganese content	BS EN 196-2 : 1995 Cl. 12 BS EN 196-2 : 2005 Cl. 12 BS EN 196-2 : 2013 Cl. 4.4.6
	Manganese oxide content (MnO)	BS EN 196-2: 1995 Cl. 12 BS EN 196-2: 2005 Cl. 12 BS EN 196-2 : 2013 Cl. 4.4.6
	Manganese trioxide content (Mn_2O_3)	BS EN 196-2: 1995 Cl. 12 BS EN 196-2: 2005 Cl. 12 BS EN 196-2 : 2013 Cl. 4.4.6
	Sulphide content	BS EN 15167-1 : 2006 (Amd 16763) Cl. 5.2 & BS EN 196-2 : 2005 Cl. 11 BS EN 15167-1 : 2006 (Amd 16763) Cl. 5.2 & BS EN 196-2 : 2013 Cl. 4.4.5
	Iron oxide (Fe_2O_3)	BS EN 196-2 : 2005 Cl. 13.10 BS EN 196-2 : 2013 Cl. 4.5.10
	Aluminium oxide (Al_2O_3)	BS EN 196-2 : 1995 Cl. 13.11 BS EN 196-2 : 2005 Cl. 13.11 BS EN 196-2 : 2013 Cl. 4.5.11
	Calcium oxide (CaO)	BS EN 196-2 : 1995 Cl. 13.14 (Alternative method) in conjunction with Cl. 13.16 BS EN 196-2 : 2005 Cl. 13.14 (Alternative method) BS EN 196-2 : 2013 Cl. 4.5.14 (Alternative method)

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Ground granulated blastfurnace slag (chemical analysis) (cont'd)	Magnesium oxide (MgO)	BS EN 196-2 : 1995 Cl. 13.15 (Alternative method) in conjunction with Cl. 13.16 BS EN 15167-1 : 2006 (Amd 16763) Cl. 5.2 & BS EN 196-2 : 2005 Cl. 13.15 (Alternative method) BS EN 15167-1 : 2006 (Amd 16763) Cl. 5.2 & BS EN 196-2 : 2013 Cl. 4.5.15 (Alternative method)
	Sodium oxide content	BS EN 196-21 : 1992 Cl. 7 (Reference method) *Excluding Cl. 7.5.1* BS EN 196-2 : 2005 Cl. 17 (Reference method) *Excluding Cl. 17.4.1* BS EN 196-2 : 2013 Cl. 4.5.19 (Reference method) *Excluding Cl. 4.5.19.4.1*

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Ground granulated blastfurnace slag (chemical analysis) (cont'd)	Potassium oxide content	BS EN 196-21 : 1992 Cl. 7 (Reference method) *Excluding Cl. 7.5.1* BS EN 196-2 : 2005 Cl. 17 (Reference method) *Excluding Cl. 17.4.1* BS EN 196-2 : 2013 Cl. 4.5.19 (Reference method) *Excluding Cl. 4.5.19.4.1*
	Total alkali content	BS EN 196-21 : 1992 Cl. 7 (Reference method) *Excluding Cl. 7.5.1* BS EN 196-2 : 2005 Cl. 17 (Reference method) *Excluding Cl. 17.4.1* BS EN 196-2 : 2013 Cl. 4.5.19 (Reference method) *Excluding Cl. 4.5.19.4.1*
	Chloride content	BS EN 196-21 : 1992 Cl. 4 BS EN 15167-1 : 2006 (Amd 16763) Cl. 5.2 & BS EN 196-2 : 2005 Cl. 14 BS EN 15167-1 : 2006 (Amd 16763) Cl. 5.2 & BS EN 196-2 : 2013 Cl. 4.5.16
Ground water (chemical analysis)	pH value	BS 1377 : Part 3 : 1990 Cl. 9 BS 1377 : Part 3 : 2018 Cl. 12 GEOSPEC 3 : 2001 Test 9.5 GEOSPEC 3 : 2017 Test 9.5
	Sulphate content	BS 1377 : Part 3 : 1990 (Amd 9028) Cl. 5.5 BS 1377 : Part 3 : 2018 Cl. 7.8 GEOSPEC 3 : 2001 Test 9.3 GEOSPEC 3 : 2017 Test 9.3
Water (chemical analysis)	Acid soluble alkali content (equivalent Na2O)	BS EN 1008 : 2002 Cl. 6.1.3 & BS EN 196-21: 1992 Cl. 7
	Alkalinity	ASTM D1067-11 Method B
	Chloride content	BS EN 1008 : 2002 Cl. 6.1.3 & BS EN 196-21: 1992 Cl. 4
	Sulphate content	BS EN 1008 : 2002 Cl. 6.1.3 & BS EN 196-2: 2005 Cl. 8
	Total dissolved solids content	BS 1377 : Part 3 : 1990 Cl. 8 BS 1377 : Part 3 : 2018 Cl. 11

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Manhole covers / steps	Bending test of manhole steps	BS 1247: Part 1: 1990 App. A
	Pull-out test of manhole steps	BS 1247: Part 1: 1990 App. B
	Twist test of manhole steps	BS 1247: Part 1: 1990 Cl. 7.1
	Loading test of gully tops and manhole tops	BS EN 124-1: 2015 Cl. 8
	Mass determination and resistance to fracture of manhole covers and gully gratings	General Specification for Civil Engineering Works (2006) Vol. 1 + Amd. 1/2016 Cl. 5.95 & App. 5.3 General Specification for Civil Engineering Works (2020) Vol. 1 Cl. 5.95 & App. 5.3
	Skid resistance	BS EN 124-1: 2015 Cl. 7.4.2 (c) & Annex C
	Dimension measurement of steps for underground man entry chambers	BS EN 13101: 2002 Cl. 4.3.2
	Pull-out test of steps for underground man entry chambers	BS EN 13101: 2002 Annex D in conjunction with the following specification: BS EN 13101: 2002 Cl. 4.3.9
	Twist test of steps for underground man entry chambers	BS EN 13101: 2002 Annex A in conjunction with the following specification: BS EN 13101: 2002 Cl. 4.3.6
	Vertical loading test of steps for underground man entry chambers	BS EN 13101: 2002 Annex B in conjunction with the following specification: BS EN 13101: 2002 Cl. 4.3.7

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Metallic materials	Bend test of carbon steel bars	CS2: 1995 Cl. 6.1 & 6.3
	Bend test of carbon steel bars	BS 4449: 1988 Cl. 10.2 Building Ordinance Office PNAP 122 (Jul 1990)
	Rebend test of carbon steel bars	CS2: 1995 Cl. 6.1 & 6.4
	Rebend test of carbon steel bars	BS 4449: 1988 Cl. 10.3 Building Ordinance Office PNAP 122 (Jul 1990)
	Rebend test of reinforcing bars, wire rod, welded fabric, cold reduced wire for reinforcement of concrete	BS EN ISO 15630-1: 2002 + Corr. 1 Cl. 7 BS EN ISO 15630-1: 2010 Cl. 7 BS EN ISO 15630-1: 2019 Cl. 7 CS2: 2012 (Rev. 6) Cl. 6.1 & 6.5 in conjunction with the following specification(s): BS 4449: 2005 + A2: 2009 + A3: 2016 Cl. 7.2.5 & 9 BS 4482: 2005 + Amd. 1: 2007 Cl. 7.2.4 & 9 BS 4483: 1998 Cl. 13.1 BS 4483: 2005 + Amd. 1: 2007 Cl. 7.2.5 & 8.1.3.2 & 9
	Bond property of steel reinforcement bars by surface geometry measurement	BS EN ISO 15630-1: 2002 Cl. 10 & 11.3 CS2: 2012 (Rev. 6) Cl. 6.1 & 6.7.2 in conjunction with the following specification(s): BS 4449: 2005 + A3: 2016 Cl. 7.4 & 9 BS 4482: 2005 Cl. 7.4.2 & 9 BS 4483: 2005 + Amd. 1: 2007 Cl. 8.1.3.2 & 9
	Charpy 'V' notch impact test	BS EN 10045-1: 1990 BS EN ISO 148-1: 2016 in conjunction with the following specification(s): BS 4360: 1990 Cl. 25 to 27

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Metallic materials (cont'd)	Mass per metre of steel reinforcing bars, wire rods and wire	BS EN ISO 15630-1: 2002 + Corr. 1 Cl. 12 CS2: 2012 (Rev. 6) Cl. 6.1 & 6.2 in conjunction with the following specification(s): BS 4449: 2005 + A2: 2009 + A3: 2016 Cl. 7.2.2, 7.3 & 9 BS 4482: 2005 + Amd. 1: 2007 Cl. 7.3 & 9
	Mass per metre square, pitch and dimension of steel fabrics for reinforcement of concrete	BS EN ISO 15630-1: 2002 + Corr. 1 Cl. 12 in conjunction with the following specification(s): BS 4483: 2005 Cl. 7.3, 8.1.3.2, 9 & BS 4449: 2005 Cl. 7.3 & 9
	Static tension test, static compression test, cyclic tension & compression test for mechanical connectors systems (Type 2 splices) for steel reinforcing bars in the force range 3 kN – 2000 kN	ICC Evaluation Service, Inc. AC133 (Approved Jan 2010, Effective 1 Jul 2010) Cl. 4.1.2 in conjunction with the following specification(s): Buildings Department Code of Practice for Structural Use of Concrete (2013) + Amd. 2017 Cl. 3.2.8.4(b), (c) & (d)
	Low-cycle loading test for steel reinforcement couplers (up to 50 mm diameter) for mechanical splices of bars in the force range 3 kN – 2000 kN	ISO 6892-1: 2016 & ISO 15835-2: 2018 Cl. 5.6
	Proof load test of steel nuts in the force range 3 kN – 2000 kN	BS 3692: 2001 Annex C.1 BS 3692: 2014 Annex C.1 BS 4190: 2001 Annex A.1 BS 4190: 2014 Annex A.1 BS EN 20898-2: 1994 Cl. 5-7 & 8.1
	Proof load test of unmachined (finished) bolts, screws and studs in the force range 3 kN – 2000 kN	BS EN 20898-1: 1992 Cl. 8.4 BS EN ISO 898-1: 2009 Cl. 9.6 BS EN ISO 898-1: 2013 Cl. 9.6 in conjunction with the following specification(s): BS 3692: 2001 + Amd. 13183 Cl. 11 & 13 BS 3692: 2014 Cl. 14 & 21 BS 4190: 2001 Cl. 15 & 20 BS 4190: 2014 Cl. 15 & 21
	Proof load test of stainless steel nuts in the force range 3 kN – 2000 kN	BS EN ISO 898-2: 2012 Cl. 9.1 in conjunction with the following specification(s): BS EN ISO 3506-2: 2009 Cl. 6 BS 6105: 1981 Cl. 6.6, Table 3 & 4

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Metallic materials (cont'd)	Tensile test of carbon steel bars (up to 50mm diameter) in the force range 3 kN – 2000 kN	CS2: 1995 Cl. 6.1 & 6.2 BS 4449: 1988 Cl. 10.1 Building Ordinance Office PNAP 122 (Jul 1990)
	Tensile test of metallic materials in the force range 3 kN - 2000 kN	BS 18: 1987 BS EN 10002-1: 2001 BS EN ISO 6892-1: 2016 Cl. 10.3.3 Method B BS EN ISO 6892-1: 2019 Cl. 10.3.3 Method B in conjunction with the following specification(s): BS 4360: 1990 Cl. 23 BS EN 10025: 1990 Cl. 7.4.1 & 8.6.3.2 BS EN 10025: 1993 Cl. 7.4.1 & 8.6.3.2 BS EN 10025-1: 2004 Cl. 7.3.1, 9.2.3.2 & 10.2.1 BS EN 10025-2: 2004 Cl. 10.2 & Table 7 BS EN 10088-2: 2005 Cl. 7.4.2, Table 7 - 17 & 19 – 25 BS EN 10088-3: 2005 Cl. 7.4.2, Table 8 – 17 BS EN 10113-1: 1993 Cl. 8.5.2.2 & 8.6.2.1 BS EN 10113-2: 1993 Cl. 7.4.1 BS EN 10113-3: 1993 Cl. 7.4.1 BS EN 10137-1: 1996 Cl. 8.5.2.2 & 8.6.2.1 BS EN 10137-2: 1996 Cl. 7.4.1 BS EN 10137-3: 1996 Cl. 7.4.1 BS EN 10155: 1993 Cl. 7.4.1, 7.4.2 & 8.6.3.2 BS EN 10164: 2004 Cl. 5.1 & 8.1 BS EN 10210-1: 1994 Cl. 6.6.1, 9.2 & 9.2.1 BS EN 10210-1: 2006 Cl. 6.6.1, 9.2.1 & 9.2.2 BS EN 10219-1: 1997 Cl. 6.7.1, 9.2 & 9.2.1 BS EN 10219-1: 2006 Cl. 6.7.1, 9.2.1 & 9.2.2
	Tensile test & slip/permanent elongation test of mechanical coupler (up to 50 mm diameter) for reinforcing bar in the force range 3 kN – 2000 kN	BS EN ISO 6892-1: 2019 Cl. 10.3.3 Method B & ISO 15835-2: 2018 Cl. 5.4 excluding Cl. 5.4.4 in conjunction with the following specification(s): BS 8110: Part 1: 1985 Cl. 3.12.8.16.2 BS 8110: Part 1: 1997 Cl. 3.12.8.16.2 Buildings Department Code of Practice for Structural Use of Concrete (2004) Cl. 3.2.8.2 Buildings Department Code of Practice for Structural Use of Concrete (2013) Cl. 3.2.8.3 General Specification for Civil Engineering Works (2006) Vol. 2 Cl. 15.35

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Metallic materials (cont'd)	Tensile test of unmachined (finished) steel bolts, screw and studs in the force range 3 kN – 2000 kN	BS EN ISO 6892-1: 2009 Cl. 10.4 Method B BS EN ISO 6892-1: 2019 Cl. 10.3.3 Method B in conjunction with the following specification(s): BS 3692: 2001 + Amd. 13183 Cl. 11 & 13 BS 3692: 2014 Cl. 14 & 21 BS 4190: 2001 Cl. 15 & 20 BS 4190: 2014 Cl. 15 & 21 BS EN 20898-1: 1992 Cl. 8.2 BS EN ISO 898-1: 2009 Cl. 9.2 BS EN ISO 898-1: 2013 Cl. 9.2
	Tensile test of stainless steel bolts, screws and studs in the force range 3 kN – 2000 kN	BS EN ISO 6892-1: 2009 Cl. 10.4 Method B BS EN ISO 6892-1: 2019 Cl. 10.3.3 Method B in conjunction with the following specification(s): BS EN ISO 3506-1: 2009 Cl. 6 BS EN ISO 898-1: 2013 Cl. 9.2 in conjunction with the following specification(s): BS 6105: 1981 Cl. 6.2 - 6.4
	Tensile test of reinforcing bars, wire rods, welded fabrics or cold reduced wires for reinforcement of concrete in the force range 3 kN – 2000 kN	BS EN ISO 6892-1: 2009 Cl. 10.4 Method B BS EN ISO 6892-1: 2019 Cl. 10.3.3 Method B in conjunction with the following specification(s): BS 4449: 2005 + A2: 2009 + A3: 2016 Cl. 7.2.2, 7.2.3, 8.1.3.1 & 9 BS 4482: 2005 + Amd. 1: 2007 Cl. 8.1.3.1 & 9 BS 4483: 1998 Cl. 13.1 BS 4483: 2005 + Amd. 1: 2007 Cl. 7.2.2, 7.2.3, 8.1.3.1 & 9 BS EN ISO 15630-1: 2002 + Corr.1 Cl. 5 BS EN ISO 15630-2: 2019 Cl. 5 CS2: 2012 (Rev. 6) Cl. 6.1 & 6.4
	Tensile test of high tensile 7-wire strands in the force range 4 kN – 2000 kN	BS EN ISO 6892-1: 2009 Cl. 10.4 Method B BS EN ISO 15630-3: 2010 Cl. 5 in conjunction with the following specification(s): BS 5896: 2012 Cl. 7.2.2

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Metallic materials (cont'd)	Tensile test of machined bolts, screws and studs in the force range 3 kN – 2000 kN	BS EN ISO 6892-1: 2009 Cl. 10.4 Method B BS EN ISO 6892-1: 2019 Cl. 10.3.3 Method B in conjunction with the following specification(s): BS 3692: 2001 Cl. 11 & 13 BS 3692: 2014 Cl. 14 & 21 BS 4190: 2001 Cl. 15 & 20 BS 4190: 2014 Cl. 15 & 21 BS EN ISO 898-1: 2013 Cl. 9.7
	Vickers hardness test on metallic materials in the scale range HV10, HV30	BS EN ISO 6507-1: 2005 BS EN ISO 6507-1: 2018
	Weld shear force test of steel fabrics for reinforcement of concrete	BS EN ISO 15630-2: 2010 Cl.7 BS EN ISO 15630-2: 2019 Cl. 7 ISO 10287: 1992 in conjunction with the following specification(s): BS 4483: 1985 Cl. 12.2 BS 4483: 1998 Cl. 13.2 BS 4483: 2005 + Amd. 1: 2007 Cl. 7.2.2, 7.2.4 & 9
Metallic materials (non-destructive)	Ultrasonic examination of metallic materials	BS 5996: 1993 BS EN 10160: 1999 BS EN 10306: 2002
Metallic materials (chemical analysis)		
- Carbon steel 250, 500B, 500C	Carbon equivalent value (CEV)	CS2:2012 Cl. 1.5.1 (by calculation)
Paint & vanish	Dry-film coating thickness by magnetic method	BS 3900: Part C5: 1992 & ISO 2808: 1991 (Method 6Aa – Magnetic flux) BS EN ISO 2808: 2007, BS 3900-C5: 2007 (Method 7C - Magnetic-induction) Hong Kong Housing Authority Specification Library (2018) CON3.T450.8
	Dry-film coating thickness by eddy current method	BS 3900: Part C5: 1992 & ISO 2808: 1991 (Method 6Ba – Eddy current) BS EN ISO 2808: 2007, BS 3900-C5: 2007 (Method 7D - Eddy current)
	Dry-film coating thickness by magnetic method	Hong Kong Housing Authority Specification Library (2022) CON3.T450.9

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Pipes	Assessment of the degree of pigment or carbon black dispersion in polyolefin pipes, fittings and compounds	BS ISO 18553: 2002 in conjunction with the following specification(s): BS EN 1555-1: 2002 Table 1 BS EN 12201-1: 2003 Table 1 BS EN 12201-1: 2011 Table 1 BS EN 13244-1: 2002 Table 1 BS ISO 4427-1: 2007 Table 1 (Corr. Aug 2008)
	Density of polyethylene (PE) compounds, pipes and fittings	ISO 1183: 1987 Method A BS EN ISO 1183-1: 2004 (Corr. No. 1) Method A BS EN ISO 1183-1: 2012 Method A BS EN ISO 1183-1: 2019 Method A in conjunction with the following specification(s): BS EN 1555-1: 2002 Table 1 BS EN 12201-1: 2003 Table 1 BS EN 12201-1: 2011 Table 1 BS EN 13244-1: 2002 Table 1
	Dimension of polyethylene (PE) pipes	BS EN ISO 3126: 2005 excluding Cl. 6-8 in conjunction with the following specification(s): ISO 4427: 1996 Cl. 4.1-4.3 ISO 11922-1: 1997 BS ISO 4427-2: 2007 Table 1 & 2 BS EN 1555-2: 2002 Table 1 & 2 BS EN 12201-2: 2003 Table 1 & 2 BS EN 12201-2: 2011 Table 1 & 2 (Corr. Jan 2012) BS EN 13244-2: 2002 Table 1 & 2
	Elongation at break of polyethylene (PE) pipes (only elongation at break is reported)	ISO 6259-1: 1997 ISO 6259-3: 1997 BS EN ISO 6259-1: 2001 BS EN ISO 6259-1: 2015 in conjunction with the following specification(s): BS EN 1555-2: 2002 Table 4 BS EN 12201-2: 2003 Table 5 BS EN 12201-2: 2011 Table 3 (Corr. Jan 2012) BS EN 13244-2: 2002 Table 5 BS ISO 4427-2: 2007 Table 5

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Pipes (cont'd)	Resistance to crack propagation - slow crack growth	ISO 13479: 1997 ISO 1167-1: 2006 (Corr. May 2008) ISO 1167-2: 2006 (Corr. May 2008) BS EN ISO 13479: 2022 in conjunction with the following specification(s): BS EN 12201-1: 2003 Table 2 BS EN 12201-1: 2011 Table 2 BS EN 13244-1: 2002 Table 2
	Melt mass-flow rate (MFR) of thermoplastics	EN ISO 1133: 1999 Procedure A BS EN ISO 1133-1: 2011 Procedure A in conjunction with the following specification(s): BS EN 12201-1: 2003 Table 1 BS EN 12201-1: 2011 Table 1 BS EN 12201-2: 2003 Table 5 BS EN 12201-2: 2011 Table 5 (Corr. Jan 2012) BS EN 12201-3: 2003 Table 6 BS EN 12201-3: 2011 + A1: 2012 Table 7 BS EN 13244-1: 2002 Table 1 BS EN 13244-2: 2002 Table 5 BS EN 13244-3: 2002 Table 6
	Crushing decohesion test for polyethylene (PE) electrofusion assemblies	ISO 13955: 1997 + A1: 2020 in conjunction with the following specification(s): BS EN 12201-3: 2003 Table 6 BS EN 12201-3: 2011 + A1: 2012 Table 4 BS EN 13244-3: 2002 Table 6

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Pipes (cont'd)	Oxidation induction time (OIT)	BS EN ISO 11357-6: 2013 (excluding dynamic OIT) BS EN ISO 11357-6: 2018 (excluding dynamic OIT) in conjunction with the following specification(s): BS EN 12201-1: 2011 Table 1 BS EN 12201-2: 2011 Table 5 (Corr. Jan 2012) BS EN 12201-3: 2011 + A1: 2012 Table 7 BS EN 728: 1997 in conjunction with the following specification(s): BS EN 12201-1: 2003 Table 1 BS EN 12201-2: 2003 Table 5 BS EN 12201-3: 2003 Table 6 BS EN 13244-1: 2002 Table 1 BS EN 13244-2: 2002 Table 5 BS EN 13244-3: 2002 Table 6
	Tensile strength and failure mode of test pieces from a butt-fused joint	ISO 13953: 2001 in conjunction with the following specification(s): BS EN 12201-1: 2011 Table 2 BS EN 12201-1: 2003 Table 2 BS EN 12201-3: 2011 + A1: 2012 Table 4 BS EN 12201-3: 2003 Table 6 BS EN 13244-1: 2002 Table 2 BS EN 13244-3: 2002 Table 6

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Pipes (cont'd)	Peel decohesion test for polyethylene (PE) electrofusion assemblies of nominal outside diameter greater than equal to 90 mm	ISO 13954: 1997 in conjunction with the following specification(s): BS EN 12201-1: 2011 Table 2 BS EN 12201-3: 2011 + A1: 2012 Table 4 BS EN 12201-3: 2003 Table 6 BS EN 13244-3: 2002 Table 6
	Hydrostatic pressure test of polyethylene (PE) pipes	BS EN ISO 1167-1: 2006 (Corr. May 2008) BS EN ISO 1167-4: 2007 in conjunction with the following specification(s): BS EN 12201-2: 2011 (Corr. Jan 2012) Table 3 BS EN 12201-3: 2011 + A1: 2012 Table 4 BS EN 921: 1995 / BS 2782-11: 1995 Method 1127A: 1995 (Amd. No. 1) in conjunction with the following specification(s): BS EN 12201-2: 2003 Table 3 BS EN 12201-3: 2003 Table 4 BS EN 13244-2: 2002 Table 3 BS EN 13244-3: 2002 Table 4

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Pipes (cont'd)	Dimensions of Copper Pipes	In-house method OT-TM-056 in conjunction with the following specification(s): BS EN 1057: 2006 +A1: 2010 Cl. 7.3
	Hydrostatic Pressure Test of Copper Pipes	BS EN 1057: 2006 +A1: 2010 Annex C.2
	Drift-Expanding Test of Copper Pipes	BS EN ISO 8493: 2004 in conjunction with the following specification(s): BS EN 1057: 2006 +A1: 2010 Cl. 7.7 & 10.7
	Bending Test of Copper and Copper Alloy Tubes with Nominal Outside Diameter of 6mm to 18mm	BS EN ISO 8491: 2004 in conjunction with following specification(s): BS EN 1057: 2006 +A1: 2010 Cl. 7.6 & 10.6
	Tensile Testing of Copper Tubes	BS EN 10002-1: 2001 in conjunction with the following specification(s): BS EN 1057: 2006 +A1: 2010 Cl. 7.2 & 10.2
	Hardness Test of Copper Tubes	BS EN ISO 6507-1: 2005 in conjunction with the following specification(s): BS EN 1057: 2006 +A1: 2010 Cl. 10.3
	Flanging Test of Copper Tubes	BS EN ISO 8494: 2004 in conjunction with following specification(s): BS EN 1057: 2006 +A1: 2010 Cl. 7.8 & 10.8
	Dimensional Measurements of Copper and Copper Alloy Plumbing Fittings (Capillary Soldering or Brazing Ends)	BS EN 1254-1: 1998 Clause 4.3

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Pipes (cont'd)	Leaktightness and Pressure Test under Internal Hydrostatic Pressure of Copper Alloy Plumbing Fittings (Capillary Soldering or Brazing Ends)	BS EN 1254-1: 1998 Cl. 5.2 & 5.3
	Dimensional Measurements of Copper and Copper Alloy Plumbing Fittings (Compression Ends)	In-house method OT-TM-072 in conjunction with the following specification(s): BS EN 1254-2: 1998 Cl. 4.3
	Leaktightness under Internal Hydrostatic Pressure of Copper and Copper Alloys Plumbing Fittings	BS EN 1254-2: 1998 Cl. 5.1 - 5.4
	Resistance to Pull-Out of Copper and Copper Alloy Plumbing Fittings	BS EN 1254-2: 1998 Cl. 5.1 - 5.3 & 5.5
	Leaktightness under Internal Hydrostatic Pressure whilst Subjected to Bending of Copper and Copper Alloy Plumbing Fittings	BS EN 1254-2: 1998 Cl. 5.1 - 5.3 & 5.6
	Tensile properties of unplasticized PVC pipes	ISO 6259-1: 2015 ISO 6259-2: 2020 EN ISO 6259-1: 2015 in conjunction with the following specification: BS EN 1452-2: 2009 Cl.9 BS EN 1329-1: 2014 + A1: 2018 Cl. 8.1

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Pulverized fuel ash (chemical analysis)	Sulphuric anhydride content	BS 4550 : Part 2 : 1970 Cl. 10 BS EN 450-1 : 2005 +A1 : 2007 Cl. 5.2.4 & BS EN 196-2 : 1995 Cl. 8 BS EN 450-1 : 2005 +A1 : 2007 Cl. 5.2.4 & BS EN 196-2 : 2005 Cl. 8 BS EN 450-1 : 2005 +A1 : 2007 Cl. 5.2.4 & BS EN 196-2 : 2013 Cl. 4.4.2
	Loss-on-ignition (L.O.I.)	BS 4550 : Part 2 : 1970 Cl. 13.2 BS EN 196-2 : 1995 Cl. 7 (using 1 h ignition time) BS EN 450-1 : 2005 +A1 : 2007 Cl. 5.2.2 & BS EN 196-2 : 2005 Cl. 7 (using 1 h ignition time) BS EN 450-1 : 2005 +A1 : 2007 Cl. 5.2.2 & BS EN 196-2 : 2013 Cl. 4.4.1 (using 1 h ignition time)
	Chloride content	BS EN 196-21 : 1992 Cl. 4 BS EN 450-1 : 2005 +A1 : 2007 Cl. 5.2.3 & BS EN 196-2 : 2005 Cl. 14 BS EN 450-1 : 2005 +A1 : 2007 Cl. 5.2.3 & BS EN 196-2 : 2013 Cl. 4.5.16
	Sodium oxide content	BS EN 196-21 : 1992 Cl. 7 (Reference method) *Excluding Cl. 7.5.1* BS EN 196-2 : 2005 Cl. 17 (Reference method) *Excluding Cl. 17.4.1* BS EN 196-2 : 2013 Cl. 4.5.19 (Reference method) *Excluding Cl. 4.5.19.4.1*
	Potassium oxide content	BS EN 196-21 : 1992 Cl. 7 (Reference method) *Excluding Cl. 7.5.1* BS EN 196-2 : 2005 Cl. 17 (Reference method) *Excluding Cl. 17.4.1* BS EN 196-2 : 2013 Cl. 4.5.19 (Reference method) *Excluding Cl. 4.5.19.4.1*
	Total alkali content	BS EN 196-21 : 1992 Cl. 7 (Reference method) *Excluding Cl. 7.5.1* BS EN 450-1 : 2005 +A1 : 2007 Cl. 5.2.9 & BS EN 196-2 : 2005 Cl. 17 (Reference method) *Excluding Cl. 17.4.1* BS EN 450-1 : 2005 +A1 : 2007 Cl. 5.2.9 & BS EN 196-2 : 2013 Cl. 4.5.19 (Reference method) *Excluding Cl. 4.5.19.4.1*

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Pulverized fuel ash (chemical analysis) (cont'd)	Calcium oxide content	BS EN 196-2 : 1995 Cl. 13.14 (Alternative method) in conjunction with Cl. 13.16 BS EN 196-2 : 2005 Cl. 13.14 (Alternative method) BS EN 196-2 : 2013 Cl. 4.5.14 (Alternative method)
	Aluminium oxide content (Al_2O_3)	BS EN 196-2 : 1995 Cl. 13.11 BS EN 450-1 : 2005 +A1 : 2007 Cl. 5.2.8 & BS EN 196-2 : 2005 Cl. 13.11 BS EN 450-1 : 2005 +A1 : 2007 Cl. 5.2.8 & BS EN 196-2 : 2013 Cl. 4.5.11
	Iron oxide content (Fe_2O_3)	BS EN 450-1 : 2005 +A1 : 2007 Cl. 5.2.8 & BS EN 196-2 : 2005 Cl. 13.10 BS EN 450-1 : 2005 +A1 : 2007 Cl. 5.2.8 & BS EN 196-2 : 2013 Cl. 4.5.10
	Total silica content (SiO_2)	BS EN 196-2 : 1995 Cl. 13.9 BS EN 450-1 : 2005 +A1 : 2007 Cl. 5.2.8 & BS EN 196-2 : 2005 Cl. 13.9 BS EN 450-1 : 2005 +A1 : 2007 Cl. 5.2.8 & BS EN 196-2 : 2013 Cl. 4.5.9
	Pure silica content	BS EN 196-2 : 1995 Cl. 13.6 BS EN 196-2 : 2005 Cl. 13.6 BS EN 196-2 : 2013 Cl. 4.5.6
	Soluble silica content (SiO_2)	BS EN 196-2 : 1995 Cl. 13.8 BS EN 196-2 : 2005 Cl. 13.8 BS EN 196-2 : 2013 Cl. 4.5.8
	Sum of silicon dioxide, aluminium oxide and iron oxide	BS EN 450-1 : 2005 +A1 : 2007 Cl. 5.2.8 (by calculation)
	Magnesium oxide content (MgO)	BS EN 196-2 : 1995 Cl. 13.15 (Alternative method) in conjunction with Cl. 13.16 BS EN 450-1 : 2005 +A1 : 2007 Cl. 5.2.10 & BS EN 196-2 : 2005 Cl. 13.15 (Alternative method) BS EN 450-1 : 2005 +A1 : 2007 Cl. 5.2.10 & BS EN 196-2 : 2013 Cl. 4.5.15 (Alternative method)
	Manganese content (Mn)	BS EN 196-2 : 2005 Cl. 12 BS EN 196-2 : 2013 Cl. 4.4.6

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Pulverized fuel ash (chemical analysis) (cont'd)	Manganese oxide content (MnO)	BS EN 196-2 : 2005 Cl. 12 BS EN 196-2 : 2013 Cl. 4.4.6
	Manganese trioxide content (Mn_2O_3)	BS EN 196-2 : 2005 Cl. 12 BS EN 196-2 : 2013 Cl. 4.4.6
Portland pulverized fuel ash cement (PPFAC) (Chemical analysis)	Loss on ignition (L.O.I.)	BS EN 196: Part 2: 1995 Cl. 7 BS EN 196-2: 2013 Cl. 4.4.1
	Proportion of pulverized fuel ash	BS 6588 : 1985 App. A.3 (with modification)
	Sulfate (as SO_3)	BS EN 196: Part 2: 1995 Cl. 8 BS EN 196-2: 2013 Cl. 4.4.2
	Chloride content	BS EN 196-21: 1992 Cl. 4 BS EN 196-2: 2013 Cl. 4.5.16

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Road surfaces	Accuracy of spread of binder (Coefficient of variation)	BS EN 12272-1: 2002 Cl. 6
	Luminance coefficient under diffuse illumination (Qd) and retro-reflected luminance (R_L) of road markings	BS EN 1436: 1998 + Amd. 14288 Annex A & B excluding Annex B.7 BS EN 1436: 2007 + A1: 2008 Annex A & B excluding Annex B.7 BS EN 1436: 2018 Annex A & B excluding Annex B.7
	Permeability of friction course materials	General Specification for Civil Engineering Works (2006) Vol. 1 App. 9.1 General Specification for Civil Engineering Works (2020) Vol. 1 App. 9.1 Hong Kong International Airport General Materials & Workmanship Specification (GMWS) Issue No. 5b (2019) Vol. 1 – Civil & Structural Works App. A9.1
	Rate of spread of binder	BS EN 12272-1: 2002 Cl. 4
	Size and spacing of runway surface grooving	In-house Method AS-TM-042 in conjunction with the following specification(s): Hong Kong International Airport General Materials & Workmanship Specification (GMWS) Issue No. 6a (2019) Vol. 4 – Airfield Works Section 132.13.8.1
	Skid resistance of road surfaces/markings using a portable pendulum tester	BS EN 1436: 1998 + Amd. 14288 Annex D BS EN 1436: 2007 + A1: 2008 Annex D BS EN 13036-4: 2011 Highways Department (Research and Development Division) Guidance Notes on Road testing - RD/GN/009 (Sep 1989) in conjunction with the following specification(s): BS EN 1436: 2018 Cl. 4.5
	Surface regularity of carriageways (by 3 meter / rolling straightedge method)	General Specification for Civil Engineering Works (2006) Vol. 1 Cl. 10.55 General Specification for Civil Engineering Works (2020) Vol. 1 Cl. 10.55 Highways Department (Research and Development Division) Guidance Notes on Road Testing - RD/GN/009 (Sep 1989)

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Road surfaces (cont'd)	Texture depth of carriageways (by sand patch test)	BS EN 13036-1: 2010 General Specification for Civil Engineering Works (2006) Vol. 1 App. 10.1 General Specification for Civil Engineering Works (2020) Vol. 1 App. 10.1 Highways Department (Research and Development Division) Guidance Notes on Road testing - RD/GN/009 (Sep 1989) Hong Kong International Airport General Materials & Workmanship Specification (GMWS) Issue No. 5b (2019) Vol. 1 – Civil & Structural Works App. A10.1
	Thickness of road marking materials (by micrometer method)	BS 3262: Part 3: 1989 + Amd. 8785 & 10205 App. B

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Rock	Dropping test of rock armour to determine the resistance to fracture	General Specification for Civil Engineering Works (2006) Vol. 2 Cl. 21.97 (1) & (2) & Cl. 21.99 (2) General Specification for Civil Engineering Works (2020) Vol. 2 Cl. 21.97 (1) & (2) & Cl. 21.99 (2)
	Particle density and water absorption	BS EN 13383-2: 2019 Cl. 8
	Particle size distribution of coarse grading of rock armour	BS EN 13383-2: 2019 Cl. 5 General Specification for Civil Engineering Works (2006) Vol. 1 Cl. 6.72(3) General Specification for Civil Engineering Works (2020) Vol. 1 Cl. 6.72(3) in conjunction with the following specification(s): General Specification for Civil Engineering Works (2006) Vol. 1 Cl. 6.09(3) General Specification for Civil Engineering Works (2020) Vol. 1 Cl. 6.09(3)
	Point load strength index of rock by diametral, axial, block and irregular lump tests	ASTM D5731-95 International Society for Rock Mechanics (1985) Suggested method for determination point load strength

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Sprayed concrete	Bond strength of cores by direct tension	BS EN 14488-4: 2005 + A1: 2008 excluding Cl. 5.1
	Compressive strength of young sprayed concrete	BS EN 14488-2: 2006 (stud driving method only)
	Flexural strength of fibre reinforced beam specimens	BS EN 14488-3: 2006 excluding Cl. 5.1
Soil (Phase I)	In-situ bulk density and in-situ dry density of soils by the sand replacement method suitable for fine- and medium-grained soils (with small pouring cylinder)	GEOSPEC 3: 2001 Test 11.1 GEOSPEC 3: 2017 Test 11.1 BS 1377: Part 9: 1990 Cl. 2.1
	In-situ bulk density and in-situ dry density of soils by the sand replacement method suitable for fine-, medium-, and coarse-grained soils (with large pouring cylinder)	GEOSPEC 3: 2001 Test 11.2 GEOSPEC 3: 2017 Test 11.2 BS 1377: Part 9: 1990 Cl. 2.2
	In-situ bulk density and in-situ dry density of soils by nuclear densometer method suitable for fine-and medium-grained soils	GEOSPEC 3: 2001 Test 11.3 GEOSPEC 3: 2017 Test 11.3
	Relative compaction of fill material	GEOSPEC 3: 2001 Test 11.4 GEOSPEC 3: 2017 Test 11.4 Buildings Department PNAP 55 (1994) Cl. 2 App. A Hong Kong International Airport General Materials & Workmanship Specification (GMWS) Issue No. 5b (2019) Vol. 1 – Civil & Structural Works Section 7.5.14 di Method 1
	California Bearing Ratio (CBR)	BS 1377: Part 9: 1990 Cl. 4.3
Soil (other)	Nominal thickness of geotextiles	ASTM D5199-12 (excluding Cl. 7.1, 9.4, 9.5)
	Tensile properties of geotextiles and geotextile by the wide-width strip method	ASTM D4595-11 (excluding Cl. 7.1, 10.6.1, 11.3 and 11.4)
	Static puncture strength of geotextiles and geotextile related products using a 50 mm probe	ASTM D6241-14 Method B (excluding Cl. 7.1)
	Trapezoid tearing strength of geotextiles	ASTM D4533/D4533M-15 (excluding Cl. 7.1)
	Grab breaking load and elongation of geotextiles	ASTM D4632-08 (excluding Cl. 7.1)

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Soil (chemical analysis)	Carbonate content	BS 1377: Part 3: 1990 Cl. 6.2 & 6.3 (Amd. 9028) BS 1377: Part 3: 2018 Cl. 8.3
	Water-soluble chloride content	BS 1377: Part 3: 1990 Cl. 7.2 (Amd. 9028) BS 1377: Part 3: 2018 Cl. 9.2 GEOSPEC 3: 2001 Test 9.4 GEOSPEC 3: 2017 Test 9.4
	Acid-soluble chloride content	BS 1377: Part 3: 1990 Cl. 7.3 BS 1377: Part 3: 2018 Cl. 9.3
	Total sulphate content	BS 1377: Part 3: 1990 Cl. 5.2 & 5.5 (Amd. 9208) GEOSPEC 3: 2001 Test 9.3 GEOSPEC 3: 2017 Test 9.3
	Acid-soluble sulphate content	BS 1377: Part 3: 2018 Cl. 7.6 and 7.9
	Water-soluble sulphate content	BS 1377: Part 3: 1990 Cl. 5.3 & 5.5 (Amd. 9208) BS 1377: Part 3: 2018 Cl. 7.2, 7.3 and 7.6 GEOSPEC 3: 2001 Test 9.3 GEOSPEC 3: 2017 Test 9.3
	Organic matter content	BS 1377: Part 3: 1990 Cl. 3 BS 1377: Part 3: 2018 Cl. 4 GEOSPEC 3: 2001 Test 9.1 GEOSPEC 3: 2017 Test 9.1
	Loss-on-ignition (L.O.I)	BS 1377: Part 3: 1990 Cl. 4 BS 1377: Part 3: 2018 Cl. 6 GEOSPEC 3: 2001 Test 9.2 GEOSPEC 3: 2017 Test 9.2
	pH value	BS 1377: Part 3: 1990 Cl. 9 BS 1377: Part 3: 2018 Cl. 12 GEOSPEC 3: 2001 Test 9.5 GEOSPEC 3: 2017 Test 9.5

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Structural fixings	Tensile load test of anchors and dowel bars by incremental loading in the force range 1 kN - 1000 kN	BS 5080: Part 1: 1993 Cl. 6, 7.1.1 & 7.1.3
	Tensile proof load test of anchor bolts and dowel bars by incremental loading in the force range 1 kN - 1000 kN	BS 5080: Part 1: 1993 Cl. 6, 7.1.1 & 7.1.3 with modifications
	Tensile proof load test of drilled-in anchors used for cantilevered structure/hanger/curtain wall remedial works by incremental loading in the force range 1 kN – 1000 kN	Buildings Department PNAP APP-169 (Oct 2023) App. A
	Tensile proof load test of drilled-in anchors used for works other than cantilevered structure/ hanger/curtain wall remedial works in the force range 1 kN – 1000 kN	Buildings Department PNAP APP-169 (Oct 2023) App. B
	Tensile proof load test for cementitious or polymer based grouted bolts or dowels or reinforcing bars works or/and steel T-bolts with cast-in channels in the force range 1 kN – 1000 kN	Buildings Department PNAP APP-169 (Oct 2023) App. C
	Shear proof load test for anchors and dowel bars by incremental loading in the force range 1 kN – 200 kN	BS 5080: Part 2: 1986 + Amd. 7602 Cl. 4, 7.1, 7.2.1 & 7.2.3 with modifications
	Shear proof load test of drilled-in anchors used for cantilevered structure/hanger/curtain wall remedial works by incremental loading in the force range 1 kN – 200 kN	Buildings Department PNAP APP-169 (Oct 2023) App. A
	Shear proof load test of drilled-in anchors used for wroks other than cantilevered structure/ hanger/curtain wall remedial works in the force range 1 kN – 200 kN	Buildings Department PNAP APP-169 (Oct 2023) App. B
	Shear proof load test cementitious or polymer based grouted bolts in the force range 1 kN – 200 kN	Buildings Department PNAP APP-169 (Oct 2023) App. C

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Welds (destructive)	Bend test on welded reinforcement steel	BS EN ISO 17660-1: 2006 Cl. 14.4 & Annex C
	Bend test on welds in metallic materials	BS 709: 1983 (Amd. 8909, 9146, 9378) Cl. 6 BS EN 910: 1996 BS EN ISO 5173: 2010 + A1: 2011
	Charpy V-notch impact test on welds in metallic materials	BS 709: 1983 (Amd. 8909, 9146, 9378) Cl. 11 BS EN 875: 1995 BS EN ISO 9016: 2012
	Fracture test on welds in metallic materials	BS 709: 1983 + Amd. 1: 1995 + Amd. 2: 1996 + Amd. 3: 1997 Cl. 8 BS EN 1320: 1997 BS EN ISO 9017: 2013
	Macro examination on arc stud welding in metallic materials	BS EN ISO 17639: 2013 in conjunction with the following specification(s): BS EN ISO 14555: 2017 Cl. 11.6
	Macroscopic examination on welds in metallic materials	BS 709: 1983 BS EN 1321: 1997 BS EN ISO 17639: 2013
	Shear test on welded reinforcement steel	BS EN ISO 17660-1: 2006 Cl. 14.3 & Annex C and BS EN ISO 15630-2: 2002 Cl. 7
	Tensile test on arc stud welding in metallic materials in the force range 3 kN – 2000 kN	BS EN ISO 6892-1: 2019 Cl. 10.3.3 Method B in conjunction with the following specification(s): BS EN ISO 14555: 2017 Cl. 11.4
	Tensile test on welded reinforcement steel in the force range 3 kN – 2000 kN	BS EN ISO 6892-1: 2019 Cl. 10.3.3 Method B in conjunction with the following specification(s): BS EN ISO 15630-1: 2002 Cl. 5 BS EN ISO 17660-1: 2006 Cl. 14.2
	Transverse tensile test on welds in metallic materials in the force range 10 kN – 1500 kN	BS EN 895: 1995 BS EN ISO 4136: 2012
	Vickers hardness test on welded joints in the scale of HV5, HV10	BS EN ISO 9015-1: 2011
	Vickers hardness test on welded joints in the scale of HV10, HV30	BS EN 1043-1: 1996

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Welds (non-destructive)	Liquid penetrant test (colour contrast method)	BS 6443: 1984 (Amd. 4844) BS EN 571-1: 1997 BS EN ISO 3452-1: 2013 BS EN ISO 3452-1: 2021 in conjunction with the following specification(s): BS 5135: 1984 Table 18 & 19 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b Hong Kong International Airport General Material & Workmanship Specification (GMWS) Issue No. 5a (2019) Vol. 1 – Civil & Structural Works Section 22.6.22
	Magnetic particle test (Magnetic flow method, colour contrast method using permanent magnets and A.C. yokes)	BS 6072: 1981 (Amd. 3960, 4542, 4843) BS EN 1290: 1998 BS EN ISO 9934-1: 2016 BS EN ISO 17638: 2016 in conjunction with the following specification(s): BS 4515-1: 2009 Table 9 BS 5400-6: 1999 Cl. 5.5.2.4.1 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 BS EN ISO 23278: 2009 Table 1 & Cl. 5 BS EN ISO 23278: 2015 Table 1 & Cl. 5 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b Hong Kong International Airport General Material & Workmanship Specification (GMWS) Issue No. 5a (2019) Vol. 1 – Civil & Structural Works Section 22.6.22
	Radiographic test	BS EN 1435: 1997 (Gamma ray) BS EN 1435: 1997 (Amd. 14938) (X-ray) BS EN ISO 17636-1: 2013 (Gamma ray and X-ray) in conjunction with the following specification(s): BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b Hong Kong International Airport General Material & Workmanship Specification (GMWS) Issue No. 5a (2019) Vol. 1 – Civil & Structural Works Section 22.6.22

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Welds (non-destructive) (cont'd)	Ultrasonic test (Butt welds in plates and pipes, T-joint welds, nozzle welds and node welds)	BS 3923: Part 1: 1986 (Level 1, 2A, 2B & 3) BS EN 1714: 1998 + Amd. 10286 (Level A, B & C) BS EN ISO 17640: 2010 (Level A, B & C) BS EN ISO 17640: 2018 (Level A, B & C) in conjunction with the following specification(s): BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 BS EN ISO 11666: 2010 Annex A BS EN ISO 11666: 2018 Annex A Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b Hong Kong International Airport General Material & Workmanship Specification (GMWS) Issue No. 5a (2019) Vol. 1 – Civil & Structural Works Section 22.6.22
	Visual examination	BS 5289: 1976 BS EN 970: 1997 BS EN ISO 17637: 2016 in conjunction with the following specification(s): BS 4515-1: 2009 Table 9 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b Hong Kong International Airport General Material & Workmanship Specification (GMWS) Issue No. 5a (2019) Vol. 1 – Civil & Structural Works Section 22.6.22
	Visual examination and bend test on stud connectors	<Visual examination as follows:> BS 5289: 1976 BS EN 970: 1997 BS EN ISO 17637: 2016 < together with the following bend test method(s):> BS 5400-6: 1999 Cl. 5.5.4(b) BS EN ISO 14555: 2017 Cl. 11.2, 11.3 (excluding Torque wrench method), 12.2 & 12.3 Buildings Department Code of Practice for the Structural Use of Steel (2011) Cl. 14.3.7.3

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Asbestos in bulk material	Bulk material sampling for asbestos identification a) Spray coatings b) Pipe/thermal insulation c) Insulating board d) Asbestos cement e) Gaskets, seals and textiles f) Floor and wall coverings g) Textured coatings	HSG 248 (1st edition: 2006) Cl. 4
Asbestos in bulk sample	Identification a) Determination for presence and type of Asbestos in bulk materials	HSG 248 (1st edition: 2006) App. 2 EPA 600/R-93/116 (1993 Revised Method), Section 2.1 to 2.2 (excluding all quantitation content) AS 4964-2004
	b) Asbestos-containing material	Air Pollution Control Ordinance, Section 2 (G.N. 884, Gazette Published on 14/02/2014 No. 07 Vol. 18) Method for Determining Asbestos Containing Material under Section 2 of the Air Pollution Control Ordinance
Asbestos air-borne samples	Sampling of airborne fibre a) Personal sampling b) Background or reassuring sampling c) Leak testing d) Clearance test for site reoccupation	HSG 248 (1st edition: 2006) Cl. 5
Asbestos air-borne samples	Airborne fibre concentration	HSG 248 (1st edition: 2006) App. 1

The Lab (Asia) Limited

22 San Hi Tsuen Street, Ping Shan, New Territories
新界屏山新起村街 22 號

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目		**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
HEPA filtered appliance including air mover and vacuum cleaner	Performance tests: - Visual inspection - Housing-leak test for air mover - Airflow capacity test for air mover - In-place leak test	 In-house test method HE-TM-001 In-house test method HE-TM-002 In-house test method HE-TM-003 In-house test method HE-TM-004
Class II (Type A1, A2, B1 and B2) biosafety cabinet	Mandatory field tests: - Downflow velocity profile test for the following range: Air Velocity: 0.20 m/s to 0.41 m/s - Inflow velocity test for the following range Volume flow: 90 L/s to 340 L/s - Airflow smoke patterns test - HEPA filter leak test - Cabinet integrity test (pressure decay or soap bubble test) for Type A1 cabinet - Site installation assessment tests - Alarm functions - Blower interlock - Exhaust system performance (proper exhaust duct negative pressure and canopy performance)	NSF/ANSI 49-2014 Annex F ***<Excluding the following>*** Cl. F.8 to F.11
Cleanroom	Classification of air cleanliness by particle concentration	BS EN ISO 14644-1: 2015
	Test methods for designated classification of airborne particulate cleanliness - Airflow test for the following ranges: - Air pressure difference test - Installed filter system leakage tests	BS EN ISO 14644-3: 2005 Cl. 4.2.2 and B.4 Cl. 4.2.3 and B.5 Cl. 4.2.4, B.6.1, B.6.2, B.6.4, B.6.5 and B.6.7

The Lab (Asia) Limited

DD 119, Lot 994, 1025 & 1026, Wong Nai Tun Tsuen, Yuen Long, New Territories
新界元朗黃泥墩村 DD 119, 994, 1025, 1026 段

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED[@]** 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities - Density measurements - Nuclear density gauge	Calibration for density in accordance with in-house procedure GE-TM-215 over the following range: 1170 kg/m^3 to 2730 kg/m^3	 17 kg/m^3 to 25 kg/m^3

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

The Lab (Asia) Limited

DD 119, Lot 994, 1025 & 1026, Wong Nai Tun Tsuen, Yuen Long, New Territories
新界元朗黃泥墩村 DD 119, 994, 1025, 1026 段

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Dimension stones	Articifical ageing	Buildings Department PNAP APP-16 (Dec 2021) App. B.3 (a) & (b)
Manhole covers / steps	Loading test of gully tops and manhole tops	BS EN 124: 1994 Cl. 8 BS EN 124-1: 2015 Cl. 8
	Mass determination and resistance to fracture of manhole covers and gully gratings	General Specification for Civil Engineering Works (2006) Vol. 1 Cl. 5.95 & App. 5.3 General Specification for Civil Engineering Works (2020) Vol. 1 Cl. 5.95 & App. 5.3
Metallic Materials	Brinell hardness test on metallic materials in the scales of HBW 10/3000, HBW 10/1000, HBW 2.5/187.5	BS EN ISO 6506-1: 2014 in conjunction with the following specification(s): BS EN 545: 2010 Cl. 4.4.2 & 6.4 BS EN 598: 2007 + A1: 2009 Cl. 4.3.2 & 6.4
	Rockwell hardness test on metallic materials in the scale of HRC	BS EN ISO 6508-1: 2016
Pipes	Determination of the crushing strength of concrete pipes	BS EN 1916: 2002 Cl. 4.3.5, 6.4, Annex C2 & C4 in conjunction with the following specification(s): BS 5911: Part 1: 2002 + A2: 2010 Cl. 5.6 BS 5911: Part 100: 1988 + Amd 7588 Cl. 20.4 and Appendix D
	Dimensional tests of concrete pipes and ancillary concrete products	BS 5911: Part 1: 2002 + A2: 2010 Cl. 5.4 and Annex D
	Hydrostatic test on concrete pipes and fittings	BS EN 1916: 2002 Cl. 4.3.7, 6.6, Annex E (excluding Annex E.3 and E.5) BS 5911: Part 100: 1988 + Amd 6269 & 7588 Cl. 20.3 and Appendix F
Pipes and fittings	Dimension of unplasticized poly (vinyl chloride) pipes	BS 3506: 1969 + Amd. 1152 + Amd. 1777 Cl. 5, 6 & 7 BS EN 1329-1: 2014 + A1: 2018 Cl. 6.1, 6.2 & 6.4 BS EN ISO 3126: 2005 EN ISO 3126: 2005 ISO 3126: 2005 in conjunction with the following specification(s): BS EN ISO 1452-2: 2009 Cl. 9

The Lab (Asia) Limited

DD 119, Lot 994, 1025 & 1026, Wong Nai Tun Tsuen, Yuen Long, New Territories
新界元朗黃泥墩村 DD 119, 994, 1025, 1026 段

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Pipes and fittings (cont'd)	Longitudinal reversion test of thermoplastics pipes	BS 3506: 1969 + Amd. 1152 + Amd. 1777 Cl. 8.2 & Appendix A BS EN ISO 2505: 2005 EN ISO 2505: 2005 ISO 2505: 2005 in conjunction with the following specification(s): BS EN ISO 1452-2: 2009 Cl. 9 BS EN 1329-1: 2014 + A1: 2018 Cl. 8.1
	Resistance to external blows by the round-the-clock method on thermoplastics pipes	BS 3506: 1969 + Amd. 1152 + Amd. 1777 Cl. 9.2 & Appendix E EN 744: 1995 in conjunction with the following specification(s): BS EN ISO 1452-2: 2009 Cl. 8.1 ISO 3127: 1994 BS EN ISO 3127: 2017 in conjunction with the following specification(s): BS EN 1329-1: 2014 + A1: 2018 Cl. 7.1.1
	Resistance to internal pressure of unplasticized poly (vinyl chloride) pipes and fittings	ISO 1167-1: 2006 ISO 1167-2: 2006 ISO 1167-3: 2006 in conjunction with the following specification(s): BS EN ISO 1452-2: 2009 Cl. 8.2 BS EN ISO 1452-3: 2010 + Corr. 2015 Cl. 8.1 BS 3506: 1969 + Amd. 1152 + Amd. 1777 Cl. 9.3 & Appendix F
	Vicat softening temperature of thermoplastics pipes and fittings	ISO 2507-1: 1995 ISO 2507-2: 1995 BS EN ISO 2507-1: 2017 in conjunction with the following specification(s): BS EN 1329-1: 2014 + A1: 2018 Cl. 8.1 & 8.2 BS EN ISO 1452-2: 2009 Cl. 9 BS EN ISO 1452-3: 2010 + Corr. 2015 Cl. 9
	Visual assessment of effect of heating of injection-moulded thermoplastics fittings	ISO 580: 2005 Method A EN ISO 580: 2005 Method A BS EN ISO 580: 2005 Method A in conjunction with the following specification(s): BS EN 1329-1: 2014 + A1: 2018 Cl. 8.2 BS EN ISO 1452-3: 2010 + Corr. 2015 Cl. 9

The Lab (Asia) Limited

DD 119, Lot 994, 1025 & 1026, Wong Nai Tun Tsuen, Yuen Long, New Territories
新界元朗黃泥墩村 DD 119, 994, 1025, 1026 段

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Road surfaces	Slip resistance of new/existing pedestrian surface materials by wet pendulum test	AS 4586-2013 App. A
	Slip resistance of pedestrian surfaces using Shod Ramp test	BS EN 16165: 2021 Annex B DIN 51130: 2014-02 excluding Cl. 6 DIN EN 16165: 2023-02 NB.2 & App. B
Sprayed Concrete	Energy absorption capacity of fibre reinforced slab specimens	BS EN 14488-5: 2006 excluding Cl. 5.1
Tiles	Static coefficient of friction of ceramic tiles by horizontal dynamometer pull-meter method	ASTM C1028-07
Tile adhesives	Initial tensile adhesion strength	BS EN 1348: 2007 BS EN 12004-2: 2017
	Tensile adhesion strength after water immersion	BS EN 1348: 2007 BS EN 12004-2: 2017
	Tensile adhesion strength after heat ageing	BS EN 1348: 2007 BS EN 12004-2: 2017
	Tensile adhesion strength after freeze-thaw cycles	BS EN 1348: 2007 BS EN 12004-2: 2017
	Open time: tensile adhesion strength	BS EN 1346: 2007 BS EN 12004-2: 2017
	Early tensile adhesion strength	BS EN 1348: 2007 BS EN 12004-2: 2017
	Slip	BS EN 1308: 2007 BS EN 12004-2: 2017
	Transverse deformation	BS EN 12002: 2008 BS EN 12004-2: 2017
Tile grout	Water absorption	ANSI A118.6-1992 Cl. H-3.4
	Linear shrinkage	ANSI A118.6-1992 Cl. H-4.3
	Tile group tensile adhesion compatibility with tile adhesive	BS 5980: 1980 + Amd. 5861 App. D BS 5980: 1980 + Amd. 5861 App. D with modification

The Lab (Asia) Limited

DD121, Lot 1275A, Tong Yan San Tsuen, Ping Shan, Yuen Long, N.T.
新界元朗屏山唐人新村 DD121,1275A 段

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Aggregates	Alkali silica reaction potential by ultra-accelerated mortar bar test	CS1: 2010 + Amd.No. 1/2013 Section 22
	Drying shrinkage	CS3: 2013 Section 20
	Effect of organic substances by mortar method	CS3: 2013 + Amd. No. 1/2016 Section 22
Blocks and Bricks	Compressive strength of interlocking blocks	Hong Kong Housing Authority Specification Library (2022) EXT3.T110.9 – T160.9 General Specification for Civil Engineering Works (2006) Vol. 1 App. 11.1 General Specification for Civil Engineering Works (2020) Vol. 1 App. 11.1
Cement & Portland pulverised fuel ash cement (PPFAC)	Compressive strength of broken prisms in the force range 10 kN - 250 kN	BS EN 196-1: 1995 BS EN 196-1: 2005 BS EN 196-1: 2016 in conjunction with the following specification(s): BS EN 197-1: 2000 BS EN 197-1: 2011 DD ENV 197-1: 1995
	Density	BS EN 196-6: 1992 Annex NC BS EN 196-6: 2010 Annex NC BS EN 196-6: 2018 Cl. 4.5.3
	Fineness	BS EN 196-6: 1992 Cl. 4 (by Blaine Method) BS EN 196-6: 2010 Cl. 4 (by Blaine Method) BS EN 196-6: 2018 Cl. 4 (by Blaine Method)
	Flexural strength of mortar prisms in the force range 2 kN – 10 kN	BS EN 196-1: 1995 BS EN 196-1: 2005 BS EN 196-1: 2016
	Sampling	BS EN 196-7: 1992 BS EN 196-7: 2007
	Setting times	BS EN 196-3: 1995 Cl. 6 BS EN 196-3: 2005 +A1: 2008 Cl. 6 BS EN 196-3: 2016 Cl. 6 in conjunction with the following specification(s): BS EN 197-1: 2000 BS EN 197-1: 2011 DD ENV 197-1: 1995

The Lab (Asia) Limited

DD121, Lot 1275A, Tong Yan San Tsuen, Ping Shan, Yuen Long, N.T.
新界元朗屏山唐人新村 DD121,1275A 段

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Cement & Portland pulverised fuel ash cement (PPFAC) (cont'd)	Soundness	BS EN 196-3: 1995 Cl. 7 BS EN 196-3: 2005 +A1: 2008 Cl. 7 BS EN 196-3: 2016 Cl. 7 in conjunction with the following specification(s): BS EN 197-1: 2000 BS EN 197-1: 2011 DD ENV 197-1: 1995
	Standard consistence	BS EN 196-3: 1995 Cl. 5 BS EN 196-3: 2005 +A1: 2008 Cl. 5 BS EN 196-3: 2016 Cl. 5
Concrete	Curing of test specimens	BS EN 12390-2: 2009 BS EN 12390-2: 2019 CS1: 2010 Section 10
	Compressive strength of concrete cubes in the force range 20 kN to 3000 kN	BS EN 12390-3: 2009 Corr. 1 (08/11) BS EN 12390-3: 2019 CS1: 2010 Section 12
	Tensile splitting strength of test specimens	BS EN 12390-6: 2009 CS1: 2010 + Amd. 1/2013 Section 13
	Flexural strength of concrete test beams in the force range 10 kN to 100 kN	BS EN 12390-5: 2009 BS EN 12390-5: 2019 CS1: 2010 Section 14
	Obtaining core samples	CS1: 2010 + Amd. 1/2013 Section 15
	Compressive strength of concrete cores in the force range 20 kN to 3000 kN	BS EN 12504-1: 2009 BS EN 12504-1: 2019 CS1: 2010 + Amd. 1/2013 Section 15
	Density of hardened concrete	BS EN 12390-7: 2009 BS EN 12390-7: 2019 CS1: 2010 Section 16
	Compressive strength of concrete cylinders in the force range 50 kN to 3000 kN	BS EN 12390-3: 2009 Corr. 1 (08/11) BS EN 12390-3: 2019 CS1: 2010 + Amd. 1/2013 Section 20

The Lab (Asia) Limited

DD121, Lot 1275A, Tong Yan San Tsuen, Ping Shan, Yuen Long, N.T.
新界元朗屏山唐人新村 DD121,1275A 段

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Concrete (cont'd)	Moisture content by weighing drilling powder	Hong Kong Housing Authority Material Testing Services (2022/2024) for Maintenance & Building Materials (Package D1) Specification Part D Cl. 4.3.8 Method 1 Hong Kong Housing Authority Material Testing Services (2022/2024) for Maintenance & Building Materials (Package D2) Specification Part D Cl. 4.3.8 Method 1
	Moisture content by weighing minicores	Hong Kong Housing Authority Material Testing Services (2022/2024) for Maintenance & Building Materials (Package D1) Specification Part D Cl. 4.3.8 Method 2 Hong Kong Housing Authority Material Testing Services (2022/2024) for Maintenance & Building Materials (Package D2) Specification Part D Cl. 4.3.8 Method 2
	Monitoring of setting time	Hong Kong Housing Authority Materials Testing Services (2020/2022) for Construction Materials (Package A2) Specification Part D Cl. 1.3.9 Hong Kong Housing Authority Materials Testing Services (2022/2024) for Construction Materials (Package A3) Specification Part D Cl. 1.3.9
	Air content of fresh concrete (by water column method)	BS EN 12350-7: 2019 Cl. 5
	Assessment of cement, aggregate and water content of fresh concrete	BS 1881: Part 128: 1997 Annex A (Buoyance method)
	Depth of penetration of water under pressure	BS EN 12390-8: 2019
	Water absorption	BS 1881: Part 122: 1983 + Amd. 6108 BS 1881: Part 122: 2011 + Al: 2020
	Water permeability	DIN 1048-5: 1991
	Suitability of water for making concrete (setting time & strength)	BS EN 196-1: 1995 & BS EN 196-3: 1995 Cl. 5 & 6 Hong Kong Housing Authority Materials Testing Services (2020/2022) for Construction Materials (Package A2) Specification Part D Cl. 1.2.5 Hong Kong Housing Authority Materials Testing Services (2022/2024) for Construction Materials (Package A3) Specification Part D Cl. 1.2.5 in conjunction with the following specification(s): BS EN 1008: 2002 Cl. 4.4

The Lab (Asia) Limited

DD121, Lot 1275A, Tong Yan San Tsuen, Ping Shan, Yuen Long, N.T.
新界元朗屏山唐人新村 DD121,1275A 段

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Ground granulated blastfurnace slag (GGBS)	Activity index	BS EN 196-1: 1995 Cl. 9.3 BS EN 196-1: 1995 Cl. 9.3 with modifications BS EN 196-1: 2005 Cl. 9.2 BS EN 196-1: 2005 Cl. 9.2 with modifications BS EN 196-1: 2016 Cl. 9.2 BS EN 196-1: 2016 Cl. 9.2 with modifications in conjunction with the following specification(s): BS EN 15167-1: 2006 + Amd. 16763 Cl. 5.3.2.3
	Compressive strength of broken prisms in the force range 10 kN - 250 kN	BS EN 196-1: 1995 BS EN 196-1: 1995 with modifications BS EN 196-1: 2005 BS EN 196-1: 2005 with modifications BS EN 196-1: 2016 BS EN 196-1: 2016 with modifications in conjunction with the following specification(s): BS EN 197-1: 2000 BS EN 197-1: 2011 DD ENV 197-1: 1995
	Density	BS EN 196-6: 1992 Annex NC with modifications BS EN 196-6: 2010 Annex NC with modifications BS EN 196-6: 2018 Cl. 4.5.3
	Flexural strength of mortar prisms	BS EN 196-1: 1995 BS EN 196-1: 1995 with modifications BS EN 196-1: 2005 BS EN 196-1: 2005 with modifications BS EN 196-1: 2016 BS EN 196-1: 2016 with modifications
	Fineness	BS EN 196-6: 1992 Cl. 4 with modifications (by Blaine method) BS EN 196-6: 2010 Cl.4 with modifications (by Blaine method) BS EN 196-6: 2018 Cl. 4 (by Blaine method) in conjunction with the following specification(s): BS EN 15167-1: 2006 + Amd. 16763 Cl. 5.3.1

The Lab (Asia) Limited

DD121, Lot 1275A, Tong Yan San Tsuen, Ping Shan, Yuen Long, N.T.
新界元朗屏山唐人新村 DD121,1275A 段

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Ground granulated blastfurnace slag (GGBS) (cont'd)	Initial setting time	BS EN 196-3: 1995 Cl. 6.2 BS EN 196-3: 1995 Cl. 6.2 with modifications BS EN 196-3: 2005 +A1: 2008 Cl. 6.2 BS EN 196-3: 2005 +A1: 2008 Cl. 6.2 with modifications BS EN 196-3: 2016 Cl. 6.2 BS EN 196-3: 2016 Cl. 6.2 with modifications in conjunction with the following specification(s): BS EN 197-1: 2000 BS EN 197-1: 2011 DD ENV 197-1: 1995 BS EN 15167-1: 2006 + Amd. 16763 Cl. 5.3.2.2
	Moisture content	BS EN 15167-1: 2006 + Amd. 16763 Annex A
	Sampling	BS EN 196-7: 1992 with modifications BS EN 196-7: 2007 with modifications in conjunction with the following specification(s): BS EN 15167-1: 2006 + Amd. 16763 Cl. 7
	Soundness	BS EN 196-3: 1995 Cl. 7 BS EN 196-3: 2005 + A1: 2008 Cl. 7 BS EN 196-3: 2016 Cl. 7 in conjunction with the following specification(s): BS EN 197-1: 2000 BS EN 197-1: 2011 DD ENV 197-1: 1995
	Standard consistence	BS EN 196-3: 1995 Cl. 5 BS EN 196-3: 1995 Cl. 5 with modifications BS EN 196-3: 2005 +A1: 2008 Cl. 5 BS EN 196-3: 2005 + A1: 2008 Cl.5 with modifications BS EN 196-3: 2016 Cl. 5 BS EN 196-3: 2016 Cl.5 with modifications

The Lab (Asia) Limited

DD121, Lot 1275A, Tong Yan San Tsuen, Ping Shan, Yuen Long, N.T.
新界元朗屏山唐人新村 DD121,1275A 段

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Grout	Curing test specimens	CS1: 2010 Section 10
	Compressive strength of grout cubes in the force range 50 kN to 3000 kN	CS1: 2010 Section 12
	Compressive strength	Hong Kong Housing Authority Materials Testing Services (2020/2022) for Construction Materials (Package A2) Specification Part D Cl. 2.1 Hong Kong Housing Authority Materials Testing Services (2022/2024) for Construction Materials (Package A3) Specification Part D Cl. 2.1
	Change in height	ASTM C1090-01 (Reapproved 2005) ASTM C1090-10 ASTM C1090-15
	Early change in height	ASTM C827-95a (Reapproved 1997) (excluding Cl. 7.2.2 & 7.3) ASTM C827-01 (Reapproved 2005) (excluding Cl. 8.2.2 & 8.3) ASTM C827-10 (excluding Cl. 8.2.2 & 8.3) ASTM C827-16 (excluding Cl. 8.2.2 & 8.3)
	Setting Time	ASTM C953-87 (Reapproved 1997) ASTM C953-06 ASTM C953-10 ASTM C953-17
Pipes	Water absorption of concrete pipes and fittings	BS EN 1916: 2002 Cl. 4.2.6.2, 6.7 & Annex F BS 5911: Part 100: 1988 + Amd 7588 Cl. 20.2 and Appendix E

The Lab (Asia) Limited

DD121, Lot 1275A, Tong Yan San Tsuen, Ping Shan, Yuen Long, N.T.
新界元朗屏山唐人新村 DD121,1275A 段

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Pulverized Fuel Ash (PFA)	Activity Index	BS EN 196-1: 2005 in conjunction with the following specification(s): BS EN 450-1: 2012 Cl. 5.3.2
	Fineness	BS 3892: Part 1: 1982 + Amd. 4629 Cl. 5 & App. D BS 3892: Part 1: 1997 Cl. 6 & Annex D BS EN 451-2: 2017 in conjunction with the following specification(s): BS EN 450-1: 2012 Cl. 5.3.1
	Initial setting time	BS EN 196-3: 1995 Cl. 6.1 & 6.2 BS EN 196-3: 2016 Cl. 6.1 & 6.2 in conjunction with the following specification(s): BS 3892: Part 1: 1997 Cl. 10 BS 3892: Part 1: 1997 Cl. 10 with modifications BS EN 450-1: 2012 Cl. 5.3.5
	Moisture content	BS 3892: Part 1: 1982 + Amd. 4629 Cl. 4 & App. B BS 3892: Part 1: 1997 Cl. 5 & Annex C
	Particle density	BS EN 196-6: 1992 Annex NC BS EN 1097-7: 2008 in conjunction with the following specification(s): BS 3892: Part 1: 1997 Cl. 7 BS EN 450-1: 2012 Cl. 5.3.4
	Sampling	BS EN 196-7: 1992 BS EN 196-7: 2007 in conjunction with the following specification(s): BS 3892: Part 1: 1997 Cl. 15.1 BS EN 450-1: 2012 Cl. 7
	Soundness	BS EN 196-3: 1995 Cl. 7 BS EN 196-3: 2016 Cl. 7 in conjunction with the following specification(s): BS 3892: Part 1: 1997 Cl. 11 BS 3892: Part 1: 1997 Cl. 11 with modifications BS EN 450-1: 2012 Cl. 5.3.3
	Strength factor	BS 3892: Part 1: 1997 Cl. 9 & Annex F BS 3892: Part 1: 1997 Annex F with modifications
	Water requirement	BS 3892: Part 1: 1982 + Amd. 4629 Cl. 6 & App. E BS 3892: Part 1: 1997 Cl. 8 & Annex E BS 3892: Part 1: 1997 Annex E with modifications BS EN 450-1: 2012 Cl. 5.3.6 & Annex B

The Lab (Asia) Limited

DD121, Lot 1275A, Tong Yan San Tsuen, Ping Shan, Yuen Long, N.T.
新界元朗屏山唐人新村 DD121,1275A 段

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Repair mortar	Air permeability	Hong Kong Housing Authority Materials Testing Services (2020/2022) for Construction Materials (Package A2) Specification Part D Cl. 2.8 Hong Kong Housing Authority Materials Testing Services (2022/2024) for Construction Materials (Package A3) Specification Part D Cl. 2.8 Hong Kong Housing Authority Materials Specification Library (2018) CON2.T120.8 Cl. 2 Hong Kong Housing Authority Materials Specification Library (2022) CON2.T120.9 Cl. 2 Improvements to the Figg Method for the Air Permeability of Concrete by Cather, Figg, Mansden and O'Brien. Mag. Conc. Res 36 No. 129 Dec 1984

The Lab (Asia) Limited

DD 121, Lot 1302, 30 Ping Tong Street South, Ping Shan, Yuen Long, New Territories
新界元朗屏山屏唐南街 30 號 DD 121, 1302 段

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Rock	Direct shear strength of jointed rock	ASTM D5607-16 excluding Cl. 7.1, 7.2 & 8.1 (with modifications)
	Elastic moduli of intact rock core specimens in uniaxial compression	ASTM D3148-96 excluding Cl. 9.3 & 9.4 ASTM D7012-14 Method D excluding Option A
	Porosity and density using saturation and buoyancy techniques	International Society for Rock Mechanics (1979) Part 1 Method 3: Suggested method for porosity/density determination using saturation and buoyancy techniques
	Preparation of rock core specimens and determination of dimensional and shape tolerances	ASTM D4543-85 (Re-approved 1991) ASTM D4543-08 excluding Cl. 8.1
	Unconfined compressive strength of intact rock core specimens	ASTM D2938-95 (Re-approved 2002) with modifications ASTM D7012-14 Method C excluding Option A
	Water content of rock	International Society for Rock Mechanics (1979) Part 1 Method 1: Suggested method for determination of water content of a rock sample
Soil (Phase I)	Moisture content by oven-drying at 45℃±5℃	GEOSPEC 3: 2001 Test 5.1 GEOSPEC 3: 2017 Test 5.1
	Moisture content by oven-drying at 105℃±5℃	BS 1377: Part 2: 1990 Cl. 3.2 GEOSPEC 3: 2001 Test 5.2 GEOSPEC 3: 2017 Test 5.2
	Comparative test for the determination of moisture content by oven-drying	GEOSPEC 3: 2001 Test 5.3 GEOSPEC 3: 2017 Test 5.3
	Liquid limit, plastic limit and plasticity index	GEOSPEC 3: 2001 Test 6.1 GEOSPEC 3: 2017 Test 6.1
	Liquidity index	GEOSPEC 3: 2001 Test 6.2 GEOSPEC 3: 2017 Test 6.2
	Particle density by gas jar method	GEOSPEC 3: 2001 Test 7.1 GEOSPEC 3: 2017 Test 7.1
	Particle density by small pyknometer method	GEOSPEC 3: 2001 Test 7.2 GEOSPEC 3: 2017 Test 7.2
	Particle size distribution by wet sieving (with dispersant)	GEOSPEC 3: 2001 Test 8.1 GEOSPEC 3: 2017 Test 8.1

The Lab (Asia) Limited

DD 121, Lot 1302, 30 Ping Tong Street South, Ping Shan, Yuen Long, New Territories
新界元朗屏山屏唐南街 30 號 DD 121, 1302 段

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Soil (Phase I) (cont'd)	Particle size distribution by wet sieving (without dispersant)	GEOSPEC 3: 2001 Test 8.2 GEOSPEC 3: 2017 Test 8.2
	Particle size distribution by hydrometer (with dispersant)	GEOSPEC 3: 2001 Test 8.5 GEOSPEC 3: 2017 Test 8.5
	Particle size distribution by hydrometer (without dispersant)	GEOSPEC 3: 2001 Test 8.6 GEOSPEC 3: 2017 Test 8.6
	Construction of a continuous particle size distribution curve from the results of wet sieving and sedimentation tests	GEOSPEC 3: 2001 Test 8.7 GEOSPEC 3: 2017 Test 8.7
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a 1000cc mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.1 GEOSPEC 3: 2017 Test 10.1 BS 1377: Part 4: 1990 Cl. 3.3.4.1
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a 1000cc mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.2 GEOSPEC 3: 2017 Test 10.2 BS 1377: Part 4: 1990 Cl. 3.3.4.2
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a CBR mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.3 GEOSPEC 3: 2017 Test 10.3 BS 1377: Part 4: 1990 Cl. 3.4.4.1
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a CBR mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.4 GEOSPEC 3: 2017 Test 10.4 BS 1377: Part 4: 1990 Cl. 3.4.4.2
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a 1000cc mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.5 GEOSPEC 3: 2017 Test 10.5 BS 1377: Part 4: 1990 Cl. 3.5.4.1
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a 1000cc mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.6 GEOSPEC 3: 2017 Test 10.6 BS 1377: Part 4: 1990 Cl. 3.5.4.2
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a CBR mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.7 GEOSPEC 3: 2017 Test 10.7 BS 1377: Part 4: 1990 Cl. 3.6.4.1

The Lab (Asia) Limited

DD 121, Lot 1302, 30 Ping Tong Street South, Ping Shan, Yuen Long, New Territories
新界元朗屏山屏唐南街 30 號 DD 121, 1302 段

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Soil (Phase I) (cont'd)	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a CBR mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.8 GEOSPEC 3: 2017 Test 10.8 BS 1377: Part 4: 1990 Cl. 3.6.4.2
	California Bearing Ratio (CBR)	GEOSPEC 3: 2001 Test 12.1 GEOSPEC 3: 2017 Test 12.1 BS 1377: Part 4: 1990 Cl. 7
	Density of soil by linear measurement method	BS 1377: Part 2: 1990 Cl. 7.2
Soil (Phase II)	Preparation of remoulded test specimens from distributed soil samples	GEOSPEC 3: 2001 Test 13.2 GEOSPEC 3: 2017 Test 13.2
	Preparation of test specimens from undistributed soil samples	GEOSPEC 3: 2001 Test 13.3 GEOSPEC 3: 2017 Test 13.3
	One-dimensional consolidation test	GEOSPEC 3: 2001 Test 14.1 GEOSPEC 3: 2017 Test 14.1
	Isotropic compression test in a triaxial cell	GEOSPEC 3: 2001 Test 14.2 GEOSPEC 3: 2017 Test 14.2
	Unconsolidated undrained triaxial compression test without pore pressure measurement	GEOSPEC 3: 2001 Test 15.1 GEOSPEC 3: 2017 Test 15.1
	Isotropically consolidated undrained triaxial compression test with pore pressure measurement	GEOSPEC 3: 2001 Test 15.2 GEOSPEC 3: 2017 Test 15.2
	Isotropically consolidated drained triaxial compression test with measurement of volume change	GEOSPEC 3: 2001 Test 15.3 GEOSPEC 3: 2017 Test 15.3
	Direct shear test (small shear box apparatus)	GEOSPEC 3: 2001 Test 16.1 GEOSPEC 3: 2017 Test 16.1
Soil (other)	In-situ apparent resistivity of soil	BS 1377: Part 9: 1990 Cl. 5.1
	Resistivity of soil by Wenner probe method	BS 1377: Part 3: 1990 Cl. 10.3 + Amd. No. 9028
	Resistivity of soil by open container method	BS 1377: Part 3: 1990 Cl. 10.4 + Amd. No. 9028

The Lab (Asia) Limited

Lot 7, Western Support Area, Three Runway System Project Site, Hong Kong International Airport, Lantau, Hong Kong
香港大嶼山香港國際機場三跑道系統項目地盤西面航空輔助設施用地第七地段

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術	
Aggregates	Elongation index	BS 812: Section 105.2: 1990	.vs.
		CS3: 2013 Section 12	.vs.
	Flakiness index	BS EN 933-3: 2012	.vs.
		BS 812: Section 105.1: 1989	.vs.
		CS3: 2013 Section 11	.vs.
	Compaction Fraction Value of Aggregates for Granular Bed	General Specification for Civil Engineering Works (2020) Vol. 1 App. 5.2 + Amd. No. 3/2022	.vs.
		Hong Kong International Airport General Materials & Workmanship Specification (GMWS) Issue. No. 5b (2019) Volume 1 Appendix A6.2	.vs.
	Los Angeles value	CS3: 2013 Section 14	.vs.
	Particle density and water absorption (Wire basket method)	BS 812: Part 2: 1995 + Amd. 9195 & 10379 Cl. 5.3	.vs.
		BS EN 1097-6: 2013 Cl. 7	.vs.
		CS3: 2013 Section 17	.vs.
	Particle density and water absorption (Pyknometer method)	BS 812: Part 2: 1995 + Amd. 9195 & 10379 Cl. 5.5	.vs.
		BS EN 1097-6: 2013 Cl. 8 and Cl. 9	.vs.
		CS3: 2013 Section 17	.vs.
	Particle size distribution	BS 812: Section 103.1: 1985 + Amd. 6003 (by sieve analysis)	.vs.
		BS EN 933-1: 2012	.vs.
		CS3: 2013 Section 10 + Amd. 1/2013 (by sieve analysis)	.vs.
	Reduction of laboratory samples	BS EN 932-2: 1999 (excluding Cl. 7 & Cl. 12)	.vs.
	Resistance to degradation of small size coarse aggregate by abrasion and impact in Los Angeles machine	ASTM C131/C131M-14 excluding Cl. 7.1 with modifications	.vs.
		ASTM C131/C131M-20 excluding Cl. 7.1 with modifications	.vs.
	Resistance of aggregates to fragmentation	BS EN 1097-2: 2010 Cl. 5	.vs.
		BS EN 1097-2: 2020 Cl. 5	.vs.
	Soundness	BS 812: Part 121: 1989	.vs.
		BS EN 1367-2: 2009	.vs.
		CS3: 2013 Section 19	.vs.
	Ten per cent fines value	BS 812: Part 111: 1990	.vs.
		CS3: 2013 Section 16	.vs.

The Lab (Asia) Limited

Lot 7, Western Support Area, Three Runway System Project Site, Hong Kong International Airport, Lantau, Hong Kong
香港大嶼山香港國際機場三跑道系統項目地盤西面航空輔助設施用地第七地段

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Bituminous materials	Air voids of bituminous specimens	BS EN 12697-8: 2018
	Bulk density of compacted bituminous specimens	BS EN 12697-6: 2012 (Procedure B) BS EN 12697-6: 2020 (Procedure B)
	Bulk specific gravity and density of non-absorptive compacted bituminous mixtures	ASTM D2726/D2726M-19 (Method 10.1 & 10.2)
	Bulk specific gravity of compacted asphalt mixtures using saturated surface dry specimens	AASHTO T166-16 (2020) Method A
	Density, stability and flow of bituminous mixtures using Marshall Apparatus	Chapter 7, MS-2 Asphalt Mix Design Methods (7th edition 2014), Asphalt Institute
	Percentage air voids in compacted dense bituminous paving mixtures	ASTM D3203/D3203M-17
	Quantitative extraction of bitumen from bituminous paving mixtures	ASTM D2172-11 (Method A using ashing method) ASTM D2172-17el (Method A using ashing method)
	Resistance of compacted asphalt mixtures to moisture induced damage	AASHTO T283-14
	Reduction of bituminous materials to testing size	ASTM C702/C702M-18 (Method A & Method B)
	Sieve analysis of fine and coarse aggregates and materials finer than 75 micron sieve in mineral aggregates by washing	ASTM C117-17 ASTM C136/C136M-14 with modifications
	Theoretical maximum specific gravity and density of bituminous paved mixtures	ASTM D2041/D2041M-19 (weighing in water method)
	Thickness or height of compacted asphalt mixture specimens	ASTM D3549/D3549M-18 (Method A)

The Lab (Asia) Limited

Lot 7, Western Support Area, Three Runway System Project Site, Hong Kong International Airport, Lantau, Hong Kong
香港大嶼山香港國際機場三跑道系統項目地盤西面航空輔助設施用地第七地段

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術	
Bituminous materials (Pure bitumen)	Needle penetration of bituminous materials	BS 2000: Part 49: 2015 BS EN 1426: 2015	
	Penetration of bituminous materials	ASTM D5/D5M-13 ASTM D5/D5M-20	
	Softening point of bitumen by ring and ball method	ASTM D36/D36M-14 (Reapproved 2020) BS 2000: Part 58: 2015 BS EN 1427: 2015	
	Solubility of asphalt materials in trichloroethylene	ASTM D2042-15	
Cement & Portland pulverised fuel ash cement (PPFAC)	Compressive strength of broken mortar prisms in the force range 10 kN - 250 kN	BS EN 196-1: 2016 in conjunction with the following specification(s): BS EN 197-1: 2011	.vs. .vs.
	Density	BS EN 196-6: 2018 Cl. 4.5.3	.vs.
	Fineness	BS EN 196-6: 2018 Cl. 4 (by Blaine Method)	.vs.
	Flexural strength of mortar prisms in the force range 2 kN – 10 kN	BS EN 196-1: 2016 in conjunction with the following specification(s): BS EN 197-1: 2011	.vs. .vs.
	Setting time	BS EN 196-3: 2016 Cl. 6 in conjunction with the following specification(s): BS EN 197-1: 2011	.vs. .vs.
	Soundness	BS EN 196-3: 2016 Cl. 7 in conjunction with the following specification(s): BS EN 197-1: 2011	.vs. .vs.
	Standard consistence	BS EN 196-3: 2016 Cl. 5	.vs.

The Lab (Asia) Limited

Lot 7, Western Support Area, Three Runway System Project Site, Hong Kong International Airport, Lantau, Hong Kong
香港大嶼山香港國際機場三跑道系統項目地盤西面航空輔助設施用地第七地段

Construction Materials 建築材料			
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術	
Cement stabilised soil	Sampling of stabilised materials from heap	BS 1924-1: 1990 Cl. 5	
	Preparation of test samples of stabilised materials	BS 1924-1: 1990 Cl. 6	
	Moisture content by oven-drying method (Definitive method)	BS 1924-2: 1990 Cl. 1.3.3	
	Dry density/moisture content relation using 2.5 kg rammer	BS 1924-2: 1990 Cl. 2.1.3	
	Dry density/moisture content relation using 4.5 kg rammer	BS 1924-2: 1990 Cl. 2.1.4	
	In-situ density using sand replacement method	BS 1924-2: 1990 Cl. 3.3	
	In-situ California Bearing ratio (CBR)	BS 1377: Part 9: 1990 Cl. 4.3 in conjunction with the following specification(s): BS 1924-2: 1990 Cl. 4.6	
Coating	Coating continuity on epoxy-coated steel for the reinforcement of concrete	BS ISO 14654: 1999 Annex A.1.2.1 in conjunction with the following specification(s): BS ISO 14654: 1999 Cl. 7.3	.vs. .vs.
	Coating flexibility on epoxy-coated steel for the reinforcement of concrete	BS ISO 14654: 1999 Annex A.1.3.1 in conjunction with the following specification(s): BS ISO 14654: 1999 Cl. 7.4	.vs. .vs.

The Lab (Asia) Limited

Lot 7, Western Support Area, Three Runway System Project Site, Hong Kong International Airport, Lantau, Hong Kong
香港大嶼山香港國際機場三跑道系統項目地盤西面航空輔助設施用地第七地段

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術	
Concrete	Compressive strength of concrete cubes in the force range 50 kN to 3000 kN	BS EN 12390-3: 2009 (Corr. 1 08/11) BS EN 12390-3: 2019 CS1: 2010 Section 12	
	Compressive strength of concrete cylinders in the force range 50 kN to 3000 kN	BS EN 12390-3: 2009 BS EN 12390-3: 2019	
	Curing of test specimens	BS EN 12390-2: 2009 BS EN 12390-2: 2019 CS1: 2010 Section 10	
	Density of hardened concrete	BS EN 12390-7: 2009 BS EN 12390-7: 2019 CS1: 2010 Section 16	
	Flexural strength of concrete test beams	BS EN 12390-5: 2009 BS EN 12390-5: 2019	
	Obtaining core samples	CS1: 2010 + Amd. 1/2013 Section 15	.vs.
	Compressive strength of concrete cores in the force range 50 kN to 3000 kN	CS1: 2010 + Amd. 1/2013 Section 15	.vs.
Grout	Compressive strength of grout cubes in the force range 50 kN to 3000 kN	CS1: 2010 Section 12	
	Curing test specimens	CS1: 2010 Section 10	

The Lab (Asia) Limited

Lot 7, Western Support Area, Three Runway System Project Site, Hong Kong International Airport, Lantau, Hong Kong
香港大嶼山香港國際機場三跑道系統項目地盤西面航空輔助設施用地第七地段

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Metallic Materials	Charpy V-notch impact test	BS EN 10045-1: 1990 in conjunction with the following specification(s): BS EN 10025: 1993 Cl. 7.4.1.1, 7.4.2.1, 8.6.3.3 & 8.7.2.2 BS EN 10025-1: 2004 Cl. 10.2.2 BS EN 10025-2: 2004 Cl. 10.2 & Table 9 BS EN 10025-3: 2004 Cl. 10.2 & Table 6 & 7 BS EN 10025-4: 2004 Cl. 10.2 & Table 6 & 7 BS EN 10085: 2001 Cl. 7.1 & 8.2.1.2 BS EN 10088-2: 2005 Cl. 7.4.4, Table 8, 10 & 11 BS EN 10088-3: 2005 Cl. 7.4.4, Table 9 to 12 & 14 - 17 BS EN 10210-1: 2006 Cl. 6.6.2, 9.2.3, Table A.3 & B.3 BS EN 10219-1: 2006 Cl. 6.7.2, 9.2.3, Table A.3, B.4 & B.5 BS EN 10297-1: 2003 Cl. 8.3.1 & 11.2
	Mass per meter of steel reinforcing bars, wire rods and wire	BS EN ISO 15630-1: 2002 + Corr. 1 Cl. 12 CS2: 2012 (Rev. 6) Cl. 6.1 & 6.2 in conjunction with the following specification(s): BS 4449: 2005 + A2: 2009 + A3: 2016 Cl. 7.2.2, 7.3 & 9 BS 4482: 2005 + Amd.1: 2007 Cl. 7.2.2, 7.3, 9
	Mass per meter square, pitch and dimension of steel fabric for reinforcement of concrete	BS EN ISO 15630-1: 2002 + Corr. 1 Cl. 12 in conjunction with the following specification(s): BS 4483: 2005 Cl. 7.3, 8.1.3.2, 9 & BS 4449: 2005 Cl. 7.3 & 9
	Proof load test of unmachined (finished) bolts, screws and studs in the force range 3 kN – 2000 kN	BS EN ISO 898-1: 2013 Cl. 9.6 in conjunction with the following specification(s): BS 3692: 2014 Cl. 14 & 21 BS 4190: 2014 Cl. 15 & 21 BS EN 14399-3: 2015Cl. 3.2 BS EN 14399-4: 2015 Cl. 3.2
	Proof load test of stainless steel nuts in the force range 3 kN – 2000 kN	BS EN ISO 898-2: 2012 Cl. 9.1 in conjunction with the following specification(s): BS EN ISO 3506-2: 2009 Cl. 6
	Proof load test of steel nuts in the force range 3 kN – 2000 kN	BS 3692: 2014 Annex C.1 BS 4190: 2014 Annex A.1

The Lab (Asia) Limited

Lot 7, Western Support Area, Three Runway System Project Site, Hong Kong International Airport, Lantau, Hong Kong
香港大嶼山香港國際機場三跑道系統項目地盤西面航空輔助設施用地第七地段

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Metallic Materials (cont'd)	Rebend test of reinforcement steel bars, wire rods welded fabrics or cold reduced wires for reinforcement of concrete	BS EN ISO 15630-1: 2002 + Corr. 1 Cl. 7 BS EN ISO 15630-1: 2019 Cl. 7 CS2: 2012 (Rev. 6) Cl. 6.1 & 6.5 in conjunction with the following specification(s): BS 4449: 2005 + A2: 2009 + A3: 2016 Cl. 7.2.2, 7.2.5 & 9 BS 4482: 2005 + Amd. 1: 2007 Cl. 7.2.2, 7.2.4 & 9 BS 4483: 2005 +Amd. 1: 2007 Cl. 7.2.5 & 8.1.3.2 & 9
	Tensile test & slip/permanent elongation test of mechanical couplers for reinforcing bar in the force range 3 kN – 2000 kN	In-house method ST-TM-008 in conjunction with the following specification(s): Buildings Department Code of Practice for Structural Use of Concrete (2013) Cl. 3.2.8.3
	Tensile test of machined bolts, screws and studs in the force range 3 kN – 2000 kN	BS EN ISO 6892-1: 2019 10.3.3 Method B in conjunction with the following specification(s): BS 3692: 2014 Cl. 14 & 21 BS 4190: 2014 Cl. 15 & 21 BS EN 14399-3: 2015 Cl. 3.2 BS EN 14399-4: 2015 Cl. 3.2 BS EN ISO 898-1: 2013 Cl. 9.7
	Tensile test of unmachined (finished) bolts, screws and studs in the force range 3 kN – 2000 kN	BS EN ISO 6892-1: 2019 Cl. 10.3.3 Method B in conjunction with the following specification(s): BS 3692: 2014 Cl. 14 & 21 BS 4190: 2014 Cl. 15 & 21 BS EN 14399-3: 2015 Cl. 3.2 BS EN 14399-4: 2015 Cl. 3.2 BS EN ISO 898-1: 2013 Cl. 9.2
	Tensile test of stainless steel bolts, screws and in the force range 3 kN – 2000 kN	BS EN ISO 6892-1: 2009 Cl. 10.4 Method B BS EN ISO 6892-1: 2019 Cl. 10.3.3 Method B in conjunction with the following specification(s): BS EN ISO 3506-1: 2009 Cl. 6
	Tensile test of reinforcing bars, wire rods, welded fabrics or cold reduced wires for reinforcement of concrete in the force range 3 kN – 2000 kN	BS EN ISO 6892-1: 2009 Cl. 10.4 Method B BS EN ISO 6892-1: 2019 Cl. 10.3.3 Method B in conjunction with the following specification(s): BS 4449: 2005 + A2: 2009 + A3: 2016 Cl. 7.2.2, 7.2.3, 8.1.3.1 & 9 BS 4482: 2005 + Amd. 1: 2007 Cl. 7.2.2, 7.2.3, 8.1.3.1 & 9 BS 4483: 2005 + Amd. 1: 2007 Cl. 7.2.2, 7.2.3, 8.1.3.1 & 9 BS EN ISO 15630-1: 2002 + Corr. 1 Cl. 5 BS EN ISO 15630-2: 2019 Cl. 5 CS2: 2012 (Rev. 6) Cl. 6.1 & 6.4

The Lab (Asia) Limited

Lot 7, Western Support Area, Three Runway System Project Site, Hong Kong International Airport, Lantau, Hong Kong
香港大嶼山香港國際機場三跑道系統項目地盤西面航空輔助設施用地第七地段

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術	
Metallic Materials (cont'd)	Tensile test of metallic materials in the force range 3 kN – 2000 kN	BS EN 10002-1: 2001 BS EN ISO 6892-1: 2019 Cl. 10.3.3 Method B in conjunction with following specification(s): BS 1449-1.1: 1991 Cl. 9 BS EN 10025: 1993 Cl. 7.4.1, 8.6.3.2 BS EN 10025-1: 2004 Cl. 7.3.1, 9.2.3.2 & 10.2.1 BS EN 10025-2: 2004 Cl. 10.2 & Table 7 BS EN 10025-3: 2004 Cl. 10.2 & Table 5 BS EN 10025-4: 2004 Cl. 10.2 & Table 5 BS EN 10085: 2001 Cl. 7.1 and 8.2.1.2 BS EN 10087: 1999 Cl. 7.1 and 8.2.1 BS EN 10088-2: 2005 Cl. 7.4.2, Table 7-17 & 19-25 BS EN 10088-3: 2005 Cl. 7.4.2, Table 8-17 BS EN 10095: 1999 Cl. 7.3 and 8.4.2 BS EN 10142: 2000 Cl. 7.1.1 and 8.5.1 BS EN 10164: 2004 Cl. 5.1 & 8.1 BS EN 10210-1: 2006 Cl. 6.6.1, 9.2.1 & 9.2.2 BS EN 10219-1: 2006 Cl. 6.7.1, 9.2.1 & 9.2.2 BS EN 10297-1: 2003 Cl. 8.3.1& 11.1	
	Vickers hardness test on metallic materials	BS EN ISO 6507-1: 2018	
	Weld shear force test of steel fabrics for reinforcement of concrete	BS EN ISO 15630-2: 2019 Cl. 7 in conjunction with the following specification(s): BS 4483: 2005 + Amd. 1: 2007 Cl. 7.2.2, 7.2.4 & 9	
Paint & varnish	Coating thickness of hot dip galvanized coatings on fabricated iron and steel articles (Magnetic method)	BS EN ISO 2808: 2019 Method 7B.2 & BS EN ISO 2178: 2016 Cl. 7 in conjunction with the following specification(s): BS EN ISO 1461: 2009 Cl. 6.2.2 & 6.2.3	.vs. .vs.
	Coating thickness on epoxy-coated steel for the reinforcement of concrete (Magnetic method)	ISO 2808: 1997 Method No. 6 in conjunction with the following specification(s): BS ISO 14654: 1999 Cl. 7.2 & Annex A.1.1.1	.vs. .vs.
Pulverized Fuel Ash (PFA)	Fineness	BS EN 451-2: 2017 in conjunction with the following specification(s): BS EN 450-1: 2012 Cl. 5.3.1	.vs. .vs.
	Moisture content	BS 3892: Part 1: 1997 Cl. 5 & Annex C	.vs.

The Lab (Asia) Limited

Lot 7, Western Support Area, Three Runway System Project Site, Hong Kong International Airport, Lantau, Hong Kong
香港大嶼山香港國際機場三跑道系統項目地盤西面航空輔助設施用地第七地段

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目		**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Soil (Phase I)	Moisture content by oven-drying at 45℃±5℃	GEOSPEC 3: 2001 Test 5.1 GEOSPEC 3: 2017 Test 5.1
	Moisture content by oven-drying at 105℃±5℃	GEOSPEC 3: 2001 Test 5.2 GEOSPEC 3: 2017 Test 5.2
	Comparative test for the determination of moisture content by oven-drying	GEOSPEC 3: 2001 Test 5.3 GEOSPEC 3: 2017 Test 5.3
	Liquid limit, plastic limit and plasticity index	GEOSPEC 3: 2001 Test 6.1 GEOSPEC 3: 2017 Test 6.1 BS 1377: Part 2: 1990 Cl. 4.3, 5.3 & 5.4
	Liquidity index	GEOSPEC 3: 2001 Test 6.2 GEOSPEC 3: 2017 Test 6.2 BS 1377: Part 2: 1990 Cl. 5.4
	Particle density by gas jar method	GEOSPEC 3: 2001 Test 7.1 GEOSPEC 3: 2017 Test 7.1 BS 1377: Part 2: 1990 Cl. 8.2
	Particle density by small pyknometer method	GEOSPEC 3: 2001 Test 7.2 GEOSPEC 3: 2017 Test 7.2 BS 1377: Part 2: 1990 Cl. 8.3
	Particle size distribution by wet sieving (with dispersant)	GEOSPEC 3: 2001 Test 8.1 GEOSPEC 3: 2017 Test 8.1
	Particle size distribution by wet sieving (without dispersant)	GEOSPEC 3: 2001 Test 8.2 GEOSPEC 3: 2017 Test 8.2
	Particle size distribution by hydrometer (with dispersant)	GEOSPEC 3: 2001 Test 8.5 GEOSPEC 3: 2017 Test 8.5
	Particle size distribution by hydrometer (without dispersant)	GEOSPEC 3: 2001 Test 8.6 GEOSPEC 3: 2017 Test 8.6
	Construction of a continuous particle size distribution curve from the results of wet sieving and sedimentation tests	GEOSPEC 3: 2001 Test 8.7 GEOSPEC 3: 2017 Test 8.7
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a 1000cc mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.1 GEOSPEC 3: 2017 Test 10.1 BS 1377: Part 4: 1990 Cl. 3.3.4.1

The Lab (Asia) Limited

Lot 7, Western Support Area, Three Runway System Project Site, Hong Kong International Airport, Lantau, Hong Kong
香港大嶼山香港國際機場三跑道系統項目地盤西面航空輔助設施用地第七地段

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目		**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Soil (Phase I) (cont'd)	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a 1000cc mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.2 GEOSPEC 3: 2017 Test 10.2 BS 1377: Part 4: 1990 Cl. 3.3.4.2
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a CBR mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.3 GEOSPEC 3: 2017 Test 10.3 BS 1377: Part 4: 1990 Cl. 3.4.4.1
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a CBR mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.4 GEOSPEC 3: 2017 Test 10.4 BS 1377: Part 4: 1990 Cl. 3.4.4.2
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a 1000cc mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.5 GEOSPEC 3: 2017 Test 10.5 BS 1377: 1975 Cl. 4.2.3.1 BS 1377: Part 4: 1990 Cl. 3.5.4.1
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a 1000cc mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.6 GEOSPEC 3: 2017 Test 10.6 BS 1377: 1975 Cl. 4.2.3.2 BS 1377: Part 4: 1990 Cl. 3.5.4.2
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a CBR mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.7 GEOSPEC 3: 2017 Test 10.7 BS 1377: Part 4: 1990 Cl. 3.6.4.1
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a CBR mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.8 GEOSPEC 3: 2017 Test 10.8 BS 1377: Part 4: 1990 Cl. 3.6.4.2
	California Bearing Ratio (CBR)	GEOSPEC 3: 2001 Test 12.1 GEOSPEC 3: 2017 Test 12.1 BS 1377: Part 4: 1990 Cl. 7
	Moisture content by oven-drying at 105℃ ~ 110℃	BS 1377: 1975 Cl. 2.1.1 Test 1(A) BS 1377: Part 2: 1990 Cl. 3.2
	Moisture content of fine grained and medium grained material by the microwave oven drying method	Hong Kong International Airport General Material & Workmanship Specification (GMWS) Issue No. 5b (2019) Vol. 1 – Civil & Structural Works App. A7.2

The Lab (Asia) Limited

Spark OES room, 1/F, On Wui Centre, 25 Lok Yip Road, Fanling, N.T.
新界粉嶺樂業路 25 號安匯中心 1 樓火花直讀光譜儀室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Metallic materials (chemical analysis) - Carbon steel 250, 500B, 500C	Elemental Composition: - - Carbon - Chromium - Copper - Manganese - Molybdenum - Nickel - Nitrogen - Phosphorus - Sulphur - Vanadium	 In-house method CH-TM-108 (Spark OES)

The Lab (Asia) Limited

Room 101, 1/F and Room 201, 2/F, Production Workshop, No. 19 Qingnian Road, Hongqi Town, Jinwan District, Zhuhai City, Guangdong Province, China
中國廣東省珠海市金灣區紅旗鎮青年路 19 號生產車間一樓 101 室、二樓 201 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Concrete	Curing of test specimens	CS1: 2010 Section 10
	Compressive strength of concrete cubes in the force range 50 kN to 3000 kN	CS1: 2010 Section 12
	Obtaining core samples	CS1: 2010 + Amd. 1/2013 Section 15
	Compressive strength of concrete cores in the force range 50 kN to 3000 kN	CS1: 2010 + Amd. 1/2013 Section 15
	Density of hardened concrete	CS1: 2010 Section 16
Metallic materials	Mass per metre of steel reinforcing bars	CS2: 2012 (Rev. 6) Cl. 6.1 & 6.2
	Rebend test of reinforcing bars for reinforcement of concrete	CS2: 2012 (Rev. 6) Cl. 6.1 & 6.5
	Tensile test of reinforcing bars for reinforcement of concrete in the force range 10 kN - 1000 kN	BS EN ISO 6892-1: 2009 Cl. 10.4 Method B in conjunction with the following specification(s): CS2: 2012 (Rev. 6) Cl. 6.1 & 6.4

The Lab (Asia) Limited

Summary of Voluntary Suspension

.vs. denotes test for which accreditation has been voluntarily suspended with effect from 2 January 2025 (Notification Letter No. HOKLAS204-147).

Tech-co (Testing Services) Limited
迪高(測試服務)有限公司

ADDRESS 地址	:	Rm 2604, Kwong Kin Trade Centre, No. 5, Kin Fat Street, Tuen Mun, New Territories, Hong Kong. 香港新界屯門建發街 5 號廣建貿易中心 2604 室
ENQUIRY 查詢	:	Mr Ran LIN Ka-man 連家文先生
TELEPHONE 電話	:	2613 0186
FAX 傳真	:	2613 0903
E-MAIL 電郵	:	enquire@tech-co.com.hk
CLIENTELE 服務對象	:	Public 公眾

Tech-co (Testing Services) Limited
迪高(測試服務)有限公司

ADDRESS
地址

Rm 2102 & 2604, Kwong Kin Trade Centre, No. 5, Kin Fat Street, Tuen Mun, New Territories, Hong Kong
香港新界屯門建發街 5 號廣建貿易中心 2102 及 2604 室

ACCREDITED TEST CATEGORY
認可測試類別 : Construction Materials 建築材料

Tech-co (Testing Services) Limited
迪高(測試服務)有限公司
Rm 2102 & 2604, Kwong Kin Trade Centre, No. 5, Kin Fat Street, Tuen Mun, New Territories, Hong Kong.
香港新界屯門建發街 5 號廣建貿易中心 2102 及 2604 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Structural fixings	Tensile proof load test of anchors, dowel bars and channel inserts by incremental loading in the force range 1 kN – 350 kN	BS 5080: Part 1: 1993 Cl. 6, 7.1.1 & 7.1.3 with modifications
	Tensile proof load test of drilled-in anchors used for cantilevered structure/hanger/curtain wall remedial works by incremental loading in the force range 1 kN – 350 kN	Buildings Department PNAP APP-169 (Oct 2023) App. A
	Tensile proof load test of drilled-in anchors used for works other than cantilevered structure/hanger/ curtain wall remedial works in the force range 1 kN – 350 kN	Buildings Department PNAP APP-169 (Oct 2023) App. B
	Tensile proof load test of cementitious or polymer based grouted bolts or dowels or reinforcing bars works or/and steel T-bolts with cast-in channels in the force range 1 kN – 350 kN	Buildings Department PNAP APP-169 (Oct 2023) App. C

Tech-co (Testing Services) Limited
迪高(測試服務)有限公司
Rm 2102 & 2604, Kwong Kin Trade Centre, No. 5, Kin Fat Street, Tuen Mun, New Territories, Hong Kong.
香港新界屯門建發街 5 號廣建貿易中心 2102 及 2604 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Welds (non-destructive)	Liquid penetration test (Color contrast method)	BS EN 571-1: 1997 BS EN ISO 3452-1: 2013 BS EN ISO 3452-1: 2021 in conjunction with the following specification(s): BS EN ISO 5817: 2014 Table 1 BS EN ISO 5817: 2023 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b
	Magnetic particle test (Magnetic flow method, colour contrast method using permanent and A.C. yokes)	BS EN 1290: 1998 BS EN ISO 9934-1: 2001 + A1: 2003 BS EN ISO 9934-1: 2016 BS EN ISO 17638: 2009 BS EN ISO 17638: 2016 in conjunction with the following specification(s): BS EN ISO 5817: 2014 Table 1 BS EN ISO 5817: 2023 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b
	Ultrasonic test (Butt welds in plates and pipes, 'T' joint welds, nozzle welds and node welds)	BS EN 1714: 1998 (Level A, B & C) BS EN ISO 17640: 2010 (Level A, B & C) BS EN ISO 17640: 2018 (Level A, B & C) in conjunction with the following specification(s): BS EN ISO 5817: 2014 Table 1 BS EN ISO 5817: 2023 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b
	Visual examination	BS EN 970: 1997 BS EN ISO 17637: 2011 BS EN ISO 17637: 2016 in conjunction with the following specification(s): BS EN ISO 5817: 2014 Table 1 BS EN ISO 5817: 2023 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b

Foodscan Analytics Ltd.
食品檢測有限公司

ADDRESS 地址	:	Unit D, 16/F, Ford Glory Plaza, 37-39 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong 香港九龍長沙灣永康街 37-39 號福源廣場 16 樓 D 室
ENQUIRY 查詢	:	Mr FONG Chun-wai, Freddy 方俊緯先生
TELEPHONE 電話	:	2636 0352
FAX 傳真	:	2636 0581
E-MAIL 電郵	:	freddyfong@foodscan.com.hk
WEBSITE ADDRESS 網址	:	www.foodscan.com.hk
CLIENTELE 服務對象	:	Public 公眾

Foodscan Analytics Ltd.
食品檢測有限公司

ADDRESS **地址**	:	Unit D, 16/F, Ford Glory Plaza, 37-39 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong 香港九龍長沙灣永康街 37-39 號福源廣場 16 樓 D 室
ACCREDITED TEST CATEGORY **認可測試類別**	:	Environmental Testing 環境測試 Food 食品

Foodscan Analytics Ltd.
食品檢測有限公司
Unit D, 16/F, Ford Glory Plaza, 37-39 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong
香港九龍長沙灣永康街 37-39 號福源廣場 16 樓 D 室

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Microbiological examination:-	
Water	Heterotrophic Plate count (Colony count at 35°C)	APHA 23e 9215B (Pour Plate Method)
	Total Coliform Count	APHA 23e 9222B (Membrane Filtration Method)
	E. coli Count	APHA 23e 9222B & I (Membrane Filtration Method followed by *E. coli* Partition Method)
	Total Coliform Count	ISO 9308-1:2014
	E. coli Count	ISO 9308-1:2014
Saline water	Total Coliform Count	APHA 23e 9222B (Membrane Filtration Method)
	E. coli Count	APHA 23e 9222B & I (Membrane Filtration Method followed by *E. coli* Partition Method)

Foodscan Analytics Ltd.
食品檢測有限公司
Unit D, 16/F, Ford Glory Plaza, 37-39 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong
香港九龍長沙灣永康街 37-39 號福源廣場 16 樓 D 室

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Microbiological examination:-	
General Foodstuff (excluding beverages)	Total Coliform Count	BioMérieux TEMPO TC AFNOR Validation Certificate no. BIO 12/17 – 12/05 (MPN method using automated system)
	E. coli Count	BioMérieux TEMPO EC AFNOR Validation Certificate no. BIO 12/13 –02/05 (MPN method using automated system)
	Enterobacteriaceae Count	BioMérieux TEMPO EB AFNOR Validation Certificate no. BIO 12/21-12/06 (MPN method using automated system)
General Foodstuff	Detection of *Listeria monocytogenes*	BioMérieux VIDAS *Listeria monocytogenes* II (LMO2) AFNOR Validation Certificate no. BIO 12/09 –07/02 (Enzyme-linked Fluorescent Immunoassay using automated system); followed by ALOA medium and API *Listeria*
	Detection of *Salmonella spp*	BioMérieux VIDAS *Salmonella* (SLM) AFNOR Validation Certificate no. BIO 12/16 –09/05 (Enzyme-linked Fluorescent Immunoassay using automated system); followed by ISO 6579:2002/ Amd.1:2007
	Enumeration of coagulase-positive *Staphylococci*	ISO 6888-2:1999/Amd.1:2003
	Total Viable Count	BioMérieux TEMPO AC AFNOR Validation Certificate no. BIO 12/35 – 05/13 (MPN method using automated system)

Foodscan Analytics Ltd.
食品檢測有限公司
Unit D, 16/F, Ford Glory Plaza, 37-39 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong
香港九龍長沙灣永康街 37-39 號福源廣場 16 樓 D 室

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Microbiological examination:-	
Water, Ice	Heterotrophic Plate count (Colony count at 35°C)	APHA 23e 9215B (Pour Plate Method)
	Total Coliform Count	APHA 23e 9222B (Membrane Filtration Method)
	E. coli Count	APHA 23e 9222B & I (Membrane Filtration Method followed by *E. coli* Partition Method)
Water	Total Coliform Count	ISO 9308-1:2014
	E. coli Count	ISO 9308-1:2014

Advance Laboratory and Testing Services Limited
捷達檢測有限公司

ADDRESS 地址	:	Block H, 9/F., East Sun Industrial Centre, 16 Shing Yip Street, Kwun Tong, Kowloon 香港九龍官塘成業街十六號怡生工業中心九字樓H座
ENQUIRY 查詢	:	Mr. Mok Chi Shuen, Wilson, Laboratory Executive 莫智旋先生，實驗室主管
TELEPHONE 電話	:	2341 5393
FAX 傳真	:	3547 7442
E-MAIL 電郵	:	wilson@advancelabtest.com
WEBSITE ADDRESS 網址	:	http://www.advancelabel.com.hk
CLIENTELE 服務對象	:	Public 公眾

Advance Laboratory and Testing Services Limited
捷達檢測有限公司

ADDRESS **地址**	:	Block H, 9/F., East Sun Industrial Centre, 16 Shing Yip Street, Kwun Tong, Kowloon 香港九龍官塘成業街十六號怡生工業中心九字樓 H 座
ACCREDITED TEST CATEGORY **認可測試類別**	:	Toys and Children's Products 玩具及兒童產品

Advance Laboratory and Testing Services Limited
捷達檢測有限公司

Block H, 9/F., East Sun Industrial Centre, 16 Shing Yip Street, Kwun Tong, Kowloon
香港九龍官塘成業街十六號怡生工業中心九字樓Ｈ座

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Toys – paints and other similar surface coating materials	Chemical tests: - - Total lead content	ASTM F963-11 Clause 4.3.5.1 (1) *Test procedure for compliance testing:-* CPSC Test method: CPSC-CH-E1003-09.1 Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings, February 25, 2011 ***<Excluding the following>*** Composite testing
	- Migration of elements Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	ASTM F963-11 Clause 4.3.5.1 (2) *Test procedure for compliance testing:-* Clause 8.3.2 - 8.3.4
Children's non-metal products excluding glass and ceramic	- Total lead content	CPSC Test method: CPSC-CH-E1002-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Nonmetal Children's Products, Revision November 15, 2012 ***<Excluding the following>*** XRF spectrometry
Toys – substrate materials (polymeric and similar materials, whether reinforced textile or not, but excluding other textiles)	- Migration of elements Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	ASTM F963-11 Clause 4.3.5.2 (2) (b) *Test procedure for compliance testing:-* Clause 8.3.5
Category III toy materials: - Coatings of paints, varnishes, lacquers, printing inks, polymers, foams and similar coatings - Polymeric and similar materials, including laminates, whether textile reinforced or not, but excluding other textiles - Paper and paper board	- Migration of elements Aluminum, Antimony, Arsenic, Barium, Boron, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Mercury, Nickel, Selenium, Strontium, Tin and Zinc	BS EN 71-3: 2013 + A1:2014 Technique used: ICP-MS

Advance Laboratory and Testing Services Limited
捷達檢測有限公司

Block H, 9/F., East Sun Industrial Centre, 16 Shing Yip Street, Kwun Tong, Kowloon
香港九龍官塘成業街十六號怡生工業中心九字樓Ｈ座

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests (cont'd): -	
Plastic materials, adhered to or forming part of products intended for children's use	- Metals content screening: - Cadmium, Chromium, Lead, Mercury	In-house method (AL-LAB-C019) (By microwave digestion and ICP/MS)
Paper components (toys intended for children under 3 year)	- Formaldehyde	EN 71-9: 2005 Clause 4.3.2 *Test procedure for compliance testing:-* EN 645:1993 & EN 1541:2001
PVC, adhered to or forming part of products intended for children's use	Phthalates: - Dibutyl phthalate (DBP) - Benzyl butyl phthalate (BBP) - Di-(2-ethylhexyl) phthalate (DEHP) - Di-n-octyl phthalate (DNOP) - Di-iso-decyl phthalate (DIDP) - Di-iso-nonyl phthalate (DINP)	CPSC Test method: CPSC-CH-C1001-09.3 Standard Operating Procedure for Determination of Phthalates, 1, April, 2010 (excluding optional pre-screen procedure using IR spectrometry)
	- Di-n-hexyl phthalate (DNHP)	In-house method (AL-LAB-C020) (By GC/MS)
	- Di-iso-butyl phthalate (DIBP)	In-house method (AL-LAB-C021) (By GC/MS)

Heraeus Limited – Laboratory Department
賀利氏有限公司 – 實驗室部門

ADDRESS 地址	:	5/F, Analytical Laboratory, Heraeus Technology Centre, 30 On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong. 香港新界粉嶺安樂村安全街30號賀利氏科技中心5樓分析實驗室
ENQUIRY 查詢	:	Ms Ivy CHONG, Head of Sales, AH. 莊蔚澄
TELEPHONE 電話	:	2675 1287
FAX 傳真	:	2682 3220
E-MAIL 電郵	:	Ivy.Chong@heraeus.com
WEBSITE ADDRESS 網址	:	www.heraeus.com.hk
CLIENTELE 服務對象	:	Public 公眾

Heraeus Limited – Laboratory Department
賀利氏有限公司 – 實驗室部門

ADDRESS : 5/F, Analytical Laboratory, Heraeus Technology Centre, 30 On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong.
地址 香港新界粉嶺安樂村安全街 30 號賀利氏科技中心 5 樓分析實驗室

ACCREDITED TEST CATEGORY : Chemical Testing 化學測試
認可測試類別

Heraeus Limited – Laboratory Department
賀利氏有限公司 – 實驗室部門

5/F, Analytical Laboratory, Heraeus Technology Centre, 30 On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 30 號賀利氏科技中心 5 樓分析實驗室

Chemical Testing 化學測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Gold and gold alloys	Fineness	ISO 11426 : 2014 ***<Excluding the following>*** Cl 7.3.3

Chow Tai Fook Jewellery Co. Ltd. – Chow Tai Fook Fei Cui Testing Centre
周大福珠寶金行有限公司 – 周大福翡翠鑑證中心

ADDRESS : 22/F, World Peace Centre, 41-55 Wo Tong Tsui Street,
地址 Kwai Chung, New Territories, Hong Kong.
香港新界葵涌禾塘咀街41-55號世和中心22樓

ENQUIRY : Mr HO Kong-sang, Laboratory Manager
查詢 何港生先生，鑑證中心經理

TELEPHONE : 2610 8285
電話

FAX : 2610 8162
傳真

E-MAIL : timho@chowtaifook.com
電郵

WEBSITE ADDRESS : www.chowtaifook.com
網址

CLIENTELE : In-house laboratory, normally not available for public testing
服務對象 通常只提供內部服務

Chow Tai Fook Jewellery Co. Ltd. – Chow Tai Fook Fei Cui Testing Centre
周大福珠寶金行有限公司 – 周大福翡翠鑑證中心

ADDRESS **地址**	:	22/F, World Peace Centre, 41-55 Wo Tong Tsui Street, Kwai Chung, New Territories, Hong Kong. 香港新界葵涌禾塘咀街 41-55 號世和中心 22 樓
ACCREDITED TEST CATEGORY **認可測試類別**	:	Physical and Mechanical Testing 物理及機械測試

Chow Tai Fook Jewellery Co. Ltd. – Chow Tai Fook Fei Cui Testing Centre
周大福珠寶金行有限公司 – 周大福翡翠鑑證中心
22/F, World Peace Centre, 41-55 Wo Tong Tsui Street, Kwai Chung, New Territories, Hong Kong.
香港新界葵涌禾塘咀街 41-55 號世和中心 22 樓

Physical and Mechanical Testing 物理及機械測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Gemstone Testing (Fei Cui)	Shape and cut identification	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 1
	Measurement of dimensions	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 2
	Measurement of weight	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 3
	Identification of transparency	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 4
	Identification of colour	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 5
	Polariscope examination	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 6
	Determination of refractive index	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 7
	Determination of specific gravity	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 8
	Examination of fluorescence	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 9

Chow Tai Fook Jewellery Co. Ltd. – Chow Tai Fook Fei Cui Testing Centre
周大福珠寶金行有限公司 – 周大福翡翠鑑證中心
22/F, World Peace Centre, 41-55 Wo Tong Tsui Street, Kwai Chung, New Territories, Hong Kong.
香港新界葵涌禾塘咀街 41-55 號世和中心 22 樓

Physical and Mechanical Testing 物理及機械測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Gemstone Testing (Fei Cui) (cont'd)	Chelsea colour filter examination	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 10
	Spectroscopic examination	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 11
	Magnification examination	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 12
	Infrared spectrum examination	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 13
	Identification of Fei Cui and its type	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited

T M Testing Company Limited
屯門測試有限公司

ADDRESS : DD124, Lot 612, No. 18 Wing On Kui, Ping Ha Road, Tin Shui Wai, N.T., Hong Kong
地址 香港新界天水圍屏廈路永安居18號612地段124約

ENQUIRY : Mr Willy CHAN Wai-lai
查詢 陳為禮先生

TELEPHONE : 2472 6380
電話

FAX : 3905 6158
傳真

E-MAIL : tmwindow2010@gmail.com
電郵

CLIENTELE : Public
服務對象 公眾

T M Testing Company Limited
屯門測試有限公司

ADDRESS **地址**	:	DD124, Lot 612, No. 18 Wing On Kui, Ping Ha Road, Tin Shui Wai, New Territories, Hong Kong 香港新界天水圍屏廈路永安居 18 號 612 地段 124 約
ACCREDITED TEST CATEGORY **認可測試類別**	:	Construction Materials 建築材料

T M Testing Company Limited
屯門測試有限公司

DD124, Lot 612, No. 18 Wing On Kui, Ping Ha Road, Tin Shui Wai, New Territories, Hong Kong
香港新界天水圍屏廈路永安居 18 號 612 地段 124 約

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Curtain walls	Air leakage rate	ASTM E283-04
	Air permeability test	BS 5368-1: 1976, EN 42: 1975
	Cyclic safety test for curtain wall system	Buildings Department PNAP 106 (Jan 2009) Para. 4 Buildings Department APP-37 (Dec 2010) App. B Buildings Department APP-37 (May 2012) App. B Buildings Department Code of Practice for Structural Use of Glass (2018) Table 8.1
	Static test to seismic and wind interstory drifts	AAMA 501.4: 2009
	Structural performance by uniform static air pressure difference	ASTM E330-02
	Water penetration test by cyclic static air pressure difference	ASTM E547-00
	Water penetration test by dynamic pressure	AAMA 501.1: 2005
	Water penetration test by uniform static air pressure difference	ASTM E331-00
	Watertightness test under static pressure	BS 5368-2: 1980, EN 86: 1980
	Wind resistance test	BS 5368-3: 1978, EN 77: 1977

Maxim's Caterers Limited – Maxim's Food Factory – Microbiological Laboratory
美心食品有限公司 – 美心食品廠 – 微生物實驗室

ADDRESS : 3/F, 5 Dai Shun Street, Tai Po Industrial Estate, New Territories, HK.
地址 香港新界大埔工業邨大順街五號三樓

ENQUIRY : Ms CHAN Po-yan, Quality Assurance and Food Safety District Manager
查詢 陳寶欣女士，品質監控及食品安全分區經理

TELEPHONE : 2210 9229
電話

FAX : 2216 7931
傳真

E-MAIL : chanpoyan@maxims.com.hk
電郵

CLIENTELE : In-house laboratory, normally not available for public testing
服務對象 內部實驗所，通常只提供內部服務

Maxim's Caterers Limited – Maxim's Food Factory – Microbiological Laboratory
美心食品有限公司 – 美心食品廠 – 微生物實驗室

ADDRESS : 3/F, 5 Dai Shun Street, Tai Po Industrial Estate, New Territories, HK.
地址 香港新界大埔工業邨大順街五號三樓

ACCREDITED TEST CATEGORY : Food 食品
認可測試類別

Maxim's Caterers Limited – Maxim's Food Factory – Microbiological Laboratory
美心食品有限公司 – 美心食品廠 – 微生物實驗室

3/F, 5 Dai Shun Street, Tai Po Industrial Estate, New Territories, HK.
香港新界大埔工業邨大順街五號三樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Microbiological tests:-	
General Foodstuff	- Aerobic Plate Count	AOAC Official Methods 966.23 (2005)
General Foodstuff (excluding dairy products)	- Coliform Count	AOAC Official Methods 991.14 (2005) (3M Petrifilm)
General Foodstuff (excluding dairy products)	- *E.coli* Count	AOAC Official Methods 991.14 (2005) (3M Petrifilm)
Selected types of processed and prepared food	- *Staphylococcus aureus*	AOAC Official Method 2003.07 (2012) (3M Petrifilm)
Selected dairy foods	- *Staphylococcus aureus*	AOAC Official Method 2003.08 (2012) (3M Petrifilm)
Selected Meat, Seafood and Poultry	- *Staphylococcus aureus*	AOAC Official Method 2003.11 (2012) (3M Petrifilm)

K & N Technical Service Co. Limited
鍇豐技術服務有限公司

ADDRESS : Flat 4, 6/F, Block A, Hi Tech Industrial Centre, 5-21 Pak Tin Par Street, Tsuen Wan, New Territories, Hong Kong
地址 香港新界荃灣白田壩街 5-21 號嘉力工業中心 A 座 6 樓 4 室

ENQUIRY : Ms QI Yaping, Laboratory Manager
查詢 戚雅萍小姐，實驗室經理

TELEPHONE : 2331 2726
電話

FAX : 2331 2706
傳真

E-MAIL : kn@knco.hk
電郵

CLIENTELE : Public
服務對象 公眾

K & N Technical Service Co. Limited
鍇豐技術服務有限公司

ADDRESS **地址**	:	Flat 4, 6/F, Block A, Hi Tech Industrial Centre, 5-21 Pak Tin Par Street, Tsuen Wan, New Territories, Hong Kong 香港新界荃灣白田壩街 5-21 號嘉力工業中心 A 座 6 樓 4 室
ACCREDITED TEST CATEGORY **認可測試類別**	:	Construction Materials 建築材料

K & N Technical Service Co. Limited
鍇豐技術服務有限公司
Flat 4, 6/F, Block A, Hi Tech Industrial Centre, 5-21 Pak Tin Par Street, Tsuen Wan, New Territories, Hong Kong
香港新界荃灣白田壩街 5-21 號嘉力工業中心 A 座 6 樓 4 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Metallic materials (non-destructive)	Ultrasonic test of metallic materials (Reflection method)	BS EN 10160: 1999
Structural fixings	Tensile proof load test of anchors, dowel bars, channel inserts and embed plates by incremental loading in the force range 2 kN – 300 kN	BS 5080: Part 1: 1993 Cl. 6, 7.1.1 & 7.1.3 with modifications
	Tensile proof load test of drilled-in anchors used for cantilevered structure/hanger/curtain wall remedial works by incremental loading in the force range 2 kN – 300 kN	Buildings Department PNAP APP-169 (Oct 2023) App. A
	Tensile proof load test of drilled-in anchors used for works other than cantilevered structure/ hanger/curtain wall remedial works in the force range 2 kN – 300 kN	Buildings Department PNAP APP-169 (Oct 2023) App. B
	Tensile proof test of cementitious or polymer based grouted bolts or dowels or reinforcing bars works or/and steel T-bolts with cast-in channels in the force range 2 kN – 300 kN	Buildings Department PNAP APP-169 (Oct 2023) App. C
Welds (non-destructive)	Liquid penetrant test (color contrast method)	BS 6443: 1984 BS EN 571-1: 1997 BS EN ISO 3452-1: 2013 in conjunction with the following specification(s): BS 2971: 1991 Section 7 BS 4515: Part 1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 BS EN ISO 5817: 2014 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b

K & N Technical Service Co. Limited
鍇豐技術服務有限公司

Flat 4, 6/F, Block A, Hi Tech Industrial Centre, 5-21 Pak Tin Par Street, Tsuen Wan, New Territories, Hong Kong
香港新界荃灣白田壩街 5-21 號嘉力工業中心 A 座 6 樓 4 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Welds (non-destructive) (cont'd)	Magnetic particle test (magnetic flow method, colour contrast technique using permanent magnets and A.C. yokes)	BS 6072: 1981 BS EN 1290: 1998 + A2: 2003 BS EN ISO 9934-1: 2001 + A1: 2003 BS EN ISO 9934-1: 2016 BS EN ISO 17638: 2009 BS EN ISO 17638: 2016 in conjunction with the following specification(s): BS 2971: 1991 Section 7 BS 4515: Part 1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 BS EN ISO 5817: 2014 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b
	Ultrasonic test (butt welds in plates and pipes, 'T'- joint welds, nozzle welds & node welds)	BS 3923: Part 1: 1986 (Level 1, 2a, 2b & 3) BS EN 1714: 1998 + A1: 2002 (Level A, B & C) BS EN ISO 17640: 2010 (Level A, B & C) BS EN ISO 17640: 2018 (Level A, B & C) in conjunction with the following specification(s): BS 2971: 1991 Section 7 BS 4515: Part 1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 BS EN ISO 5817: 2014 Table 1 BS EN ISO 11666: 2018 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b
	Visual examination	BS 5289: 1976 BS EN 970: 1997 BS EN ISO 17637: 2011 BS EN ISO 17637: 2016 in conjunction with the following specification(s): BS 2971: 1991 Section 7 BS 4515: Part 1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 BS EN ISO 5817: 2014 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b

K & N Technical Service Co. Limited
鍇豐技術服務有限公司
Flat 4, 6/F, Block A, Hi Tech Industrial Centre, 5-21 Pak Tin Par Street, Tsuen Wan, New Territories, Hong Kong
香港新界荃灣白田壩街 5-21 號嘉力工業中心 A 座 6 樓 4 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Welds (non-destructive) (cont'd)	Visual examination and bend test on stud connectors	<Visual examination as follows:> BS 5289: 1976 BS EN 970: 1997 BS EN ISO 17637: 2011 BS EN ISO 17637: 2016 <together with the following bend test method(s):> BS 5400-6: 1999 Cl. 5.5.4(b) Buildings Department Code of Practice for the Structural Use of Steel (2005) Cl. 14.3.7.3 Buildings Department Code of Practice for the Structural Use of Steel (2011) Cl. 14.3.7.3

Infrared Engineering & Consultants Limited
紅外線顧問有限公司

ADDRESS 地址	:	Flat/Rm 03, 16/F, Chinachem Johnston Plaza, 178-186 Johnston Road, Wanchai, Hong Kong 香港灣仔莊士敦道178-186號華懋莊士敦廣場16樓1603室
ENQUIRY 查詢	:	Mr KO Wing-hong, Director 高永康先生，總裁
TELEPHONE 電話	:	2550 2330
FAX 傳真	:	2550 1179
E-MAIL 電郵	:	nigel@infrared.hk
WEBSITE ADDRESS 網址	:	www.infrared.hk
CLIENTELE 服務對象	:	Public 公眾

Infrared Engineering & Consultants Limited
紅外線顧問有限公司

ADDRESS **地址**	:	Flat/Rm 03, 16/F, Chinachem Johnston Plaza, 178-186 Johnston Road, Wanchai, Hong Kong 香港灣仔莊士敦道 178-186 號華懋莊士敦廣場 16 樓 1603 室
ACCREDITED TEST CATEGORY **認可測試類別**	:	Construction Materials 建築材料

Infrared Engineering & Consultants Limited
紅外線顧問有限公司
Flat/Rm 03, 16/F, Chinachem Johnston Plaza, 178-186 Johnston Road, Wanchai, Hong Kong
香港灣仔莊士敦道 178-186 號華懋莊士敦廣場 16 樓 1603 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Concrete (diagnostic)	Infrared thermography for detection of building surface defects	Hong Kong Concrete Institute TM1 Issue 2 (2022)

.vs.

Infrared Engineering & Consultants Limited
紅外線顧問有限公司

.vs. denotes test for which the accreditation has been voluntarily suspended with effect from 9 May 2025 (Notification Letter no. HOKLAS227-15).

ASTAR NDT CONSULTANTS LIMITED
華陞檢測及顧問有限公司

ADDRESS : Flat 7, 12/F, Ming Fat Industrial Building, No. 1 Kin Fat Street, Tuen Mun, New Territories, Hong Kong
地址 香港新界屯門建發街1號鳴發工業大厦12樓7室

ENQUIRY : Mr Sajeesh Kumar BABU, Quality Manager & Laboratory Manager
查詢

TELEPHONE : 2468 2495
電話

FAX : 2461 2495
傳真

E-MAIL : admin@astarconsult.com
電郵

WEBSITE ADDRESS : www.astarconsult.com
網址

CLIENTELE : Public
服務對象 公眾

Contact details last updated on: 9 April 2024

ASTAR NDT CONSULTANTS LIMITED
華陞檢測及顧問有限公司

ADDRESS
地址

Main Laboratory	:	Flat 5, 9/F, Ming Fat Industrial Building, No. 1 Kin Fat Street, Tuen Mun, New Territories, Hong Kong 香港新界屯門建發街 1 號鳴發工業大厦 9 樓 5 室
Test Location	:	No. 5, Fuda 1 Road, Zhangmutou Town, Dongguan City, Guangdong Province, China 中國廣東省東莞市樟木頭富達一路富達工業區南宿第五棟
ACCREDITED TEST CATEGORY **認可測試類別**	:	Construction Materials 建築材料

ASTAR NDT CONSULTANTS LIMITED
華陞檢測及顧問有限公司

Flat 5, 9/F, Ming Fat Industrial Building, No. 1 Kin Fat Street, Tuen Mun, New Territories, Hong Kong
香港新界屯門建發街 1 號鳴發工業大廈 9 樓 5 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Metallic materials (non-destructive)	Ultrasonic test of metallic materials	BS 5996: 1993 BS EN 10160: 1999 BS EN 10306: 2002
	Ultrasonic thickness measurement	BS EN 14127: 2011
Paint & varnishes	Dry-film coating thickness by magnetic method	BS EN ISO 2178: 1995 BS EN ISO 2808: 2007 (Method 7C) BS EN ISO 2808: 2019 (Method 7B.2)
	Dry-film coating thickness by eddy current method	BS EN ISO 2360: 2003 BS EN ISO 2808: 2007 (Method 7D) BS EN ISO 2808: 2019 (Method 7C)
Structural fixings	Tensile proof load test of anchor bolts, dowel bars, channel inserts and embed plates in the force range 3 kN – 200 kN	BS 5080: Part 1: 1993 Cl. 7.1.1, 7.1.3 & 7.2 with modifications (by incremental method)
	Tensile proof load test of drilled-in anchors used for cantilevered structure/hanger/curtain wall remedial works by incremental loading in the force range 3 kN – 200 kN	Buildings Department PNAP APP-169 (Oct 2023) App. A
	Tensile proof load test of drilled-in anchors used for works other than cantilevered structure/ hanger/ curtain wall remedial works in the force range 3 kN – 200 kN	Buildings Department PNAP APP-169 (Oct 2023) App. B
	Tensile proof load test for cementitious or polymer based grouted bolts or dowels or reinforcing bars works or/and steel T-bolts with cast-in channels in the force range 3 kN – 200 kN	Buildings Department PNAP APP-169 (Oct 2023) App. C

ASTAR NDT CONSULTANTS LIMITED
華陞檢測及顧問有限公司

Flat 5, 9/F, Ming Fat Industrial Building, No. 1 Kin Fat Street, Tuen Mun, New Territories, Hong Kong
香港新界屯門建發街 1 號鳴發工業大廈 9 樓 5 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Welds (non-destructive)	Liquid penetrant test (Colour contrast and fluorescent methods, solvent removable)	ASME BPVC Sec V: 2017 Article 6, Article 24 SE-165 ASME BPVC Sec V: 2023 Article 6, Article 24 SE-165 ASTM E165/E165M-12 BS 6443: 1984 + Amd. 4844 BS EN 571-1: 1997 BS EN ISO 3452-1: 2013 BS EN ISO 3452-1: 2021 in conjunction with the following specification(s): ASME B31.3: 2014 Para. 344.4.2 ASME BPVC Sec VIII Div 1: 2015 App. 8-4 AWS D1.1/D1.1M: 2015 Table 6.1 BS 4515-1: 2000 Table 5 BS 4515-1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b
	Magnetic particle test (Magnetic flow method, colour contrast and fluorescent method(s) using permanent magnets, A.C. & D.C. yokes)	ASME BPVC Sec V: 2017 Article 7, Article 25 SE-709 ASME BPVC Sec V: 2023 Article 7, Article 25 SE-709 ASTM E709-15 BS 6072: 1981 + Amd. 3960, 4542 & 4843 BS EN 1290: 1998 BS EN ISO 9934-1: 2001 BS EN ISO 9934-1: 2016 BS EN ISO 17638: 2009 BS EN ISO 17638: 2013 BS EN ISO 17638: 2016 in conjunction with the following specification(s): ASME B31.3: 2014 Para. 344.3.2 AWS D1.1/D1.1M: 2015 Table 6.1 BS 4515-1: 2000 Table 5 BS 4515-1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b

ASTAR NDT CONSULTANTS LIMITED
華陞檢測及顧問有限公司

Flat 5, 9/F, Ming Fat Industrial Building, No. 1 Kin Fat Street, Tuen Mun, New Territories, Hong Kong
香港新界屯門建發街 1 號鳴發工業大廈 9 樓 5 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Welds (non-destructive) (cont'd)	Radiographic test (Gamma Ray & X-ray)	ASME BPVC Sec V: 2017 Article 2, Article 22 SE-94 ASME BPVC Sec V: 2023 Article 2, Article 22 SE-94 ASTM E94-04 (2010) BS 2600: Part 1: 1983 BS 2910: 1986 BS EN 1435: 1997 BS EN ISO 17636-1: 2013 (up to 300 kV) in conjunction with the following specification(s): ASME B31.3: 2014 Table 341.3.2 ASME BPVC Sec VIII.1 Div 1: 2019 App. 4-3 BS 4515-1: 2000 Table 5 BS 4515-1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b
	Ultrasonic test (Butt welds in plates and pipes, 'T' joint welds, nozzle welds and node welds)	ASME BPVC Sec V: 2017 Article 4, Article 23 SE-273 ASME BPVC Sec V: 2023 Article 4, Article 23 SE-273 ASTM E273-15 BS 3923: Part 1: 1986 (Level 1, 2a, 2b & 3) BS EN 1714: 1998 (Level A, B, & C) BS EN ISO 17640: 2010 (Level A, B, & C) BS EN ISO 17640: 2018 (Level A, B, & C) in conjunction with the following specification(s): ASME B31.3: 2008 Para. 344.6.2 ASME BPVC Sec VIII Div 1: 2015 App. 12-3 BS 4515-1: 2000 Table 5 BS 4515-1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b

ASTAR NDT CONSULTANTS LIMITED
華陞檢測及顧問有限公司

Flat 5, 9/F, Ming Fat Industrial Building, No. 1 Kin Fat Street, Tuen Mun, New Territories, Hong Kong
香港新界屯門建發街 1 號鳴發工業大廈 9 樓 5 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Welds (non-destructive) (cont'd)	Visual examination	ASME BPVC Sec V: 2017 Article 9 ASME BPVC Sec V: 2023 Article 9 BS 5289: 1976 BS EN 970: 1997 BS EN ISO 17637: 2011 BS EN ISO 17637: 2016 in conjunction with the following specification(s): ASME B31.3: 2014 Table 341.3.2 AWS D1.1/D1.1M: 2015 Table 6.1 BS 4515-1: 2000 Table 5 BS 4515-1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b
	Visual examination and bend test on stud shear connectors	<Visual examination as follows:> BS 5289: 1976 BS EN 970: 1997 BS EN ISO 17637: 2011 BS EN ISO 17637: 2016 < together with the following bend test method:> BS EN ISO 14555: 2017 Cl. 11.3 (excluding Torque wrench method) in conjunction with the following specification(s): Buildings Department Code of Practice for the Structural Use of Steel (2011) Cl. 14.3.7.3

ASTAR NDT CONSULTANTS LIMITED
華陞檢測及顧問有限公司
No. 5, Fuda 1 Road, Zhangmutou Town, Dongguan City, Guangdong Province, China
中國廣東省東莞市樟木頭富達一路富達工業區南宿第五棟

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Metallic materials	Charpy V-notch impact test on steel	BS EN 10045-1:1990 BS EN ISO 148-1: 2010 BS EN ISO 148-1: 2016 in conjunction with the following specification(s): BS EN 10025-1: 2004 Cl. 10.2.2 BS EN 10025-2: 2004 Cl. 10.2 BS EN 10025-3: 2004 Cl. 10.2 BS EN 10025-4: 2004 Cl. 10.2 BS EN 10025-5: 2004 Cl. 10.2 BS EN 10025-6: 2004 + A1: 2008 Cl. 10.2
	Tensile test on metallic materials in the force range of 5 kN to 1000 kN	BS EN ISO 6892-1: 2009 Cl. 10.4 Method B BS EN ISO 6892-1: 2016 Cl. 10.3.3 Method B BS EN ISO 6892-1: 2019 Cl. 10.3.3 Method B in conjunction with the following specification(s): BS EN 10025-1: 2004 Cl. 10.2.1 BS EN 10025-2: 2004 Cl. 10.2 BS EN 10025-3: 2004 Cl. 10.2 BS EN 10025-4: 2004 Cl. 10.2 BS EN 10025-5: 2004 Cl. 10.2 BS EN 10025-6: 2004 + A1: 2008 Cl. 10.2
	Vickers hardness test on metallic materials in scale range of HV1 to HV50	BS EN 23878: 1993
Welds (destructive)	Impact test on welds in metallic materials using V-notch test pieces	BS EN ISO 148-1: 2016 in conjunction with the following specification(s): BS EN ISO 9016: 2012 BS EN ISO 9016: 2022
	Vickers hardness test on welds in metallic materials in the scale of HV5 to HV10	BS EN 6507-1: 2005 in conjunction with the following specification(s): BS EN ISO 9015-1: 2011
	Bend test on welds in metallic materials	BS EN ISO 5173: 2010 + A1: 2011
	Macroscopic examination of welds in metallic materials	BS EN ISO 17639: 2013 BS EN ISO 17639: 2022 BS EN 1321: 1997
	Fracture test on welds in metallic materials	BS EN ISO 9017: 2013 BS EN ISO 9017: 2018 BS EN 1320: 1997

ASTAR NDT CONSULTANTS LIMITED
華陞檢測及顧問有限公司
No. 5, Fuda 1 Road, Zhangmutou Town, Dongguan City, Guangdong Province, China
中國廣東省東莞市樟木頭富達一路富達工業區南宿第五棟

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Welds (destructive) (cont'd)	Transverse tensile test on welds in metallic materials in the force range of 5 kN to1000 kN	BS EN ISO 6892-1: 2016 Cl. 10.3.3 Method B in conjunction with the following specification(s): BS EN ISO 4136: 2012 BS EN ISO 4136: 2022

SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch
通標標準技術服務有限公司廣州分公司

ADDRESS : No.198 Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong Province, China
地址 中國廣東省廣州高新技術產業開發區科學城科珠路198號

ENQUIRY : Mr GUO Xu-peng, Sales Manager
查詢 郭旭鵬先生，銷售經理

TELEPHONE : (86)769 8182 2881
電話

E-MAIL : Jack-XP.Guo@sgs.com
電郵

WEBSITE ADDRESS : www.sgsgroup.com.cn
網址

CLIENTELE : Public
服務對象 公眾

SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch
通標標準技術服務有限公司廣州分公司

ADDRESS
地址

Main Laboratory	:	No.198 Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong Province, China 中國廣東省廣州高新技術產業開發區科學城科珠路 198 號
Test Location at Dongguan	:	No. 99 and No. 113 Chaoheng Road, Chenwucun, Chaolang, Chashan Town, Dongguan City, Guangdong Province, China 中國廣東省東莞市茶山鎮超朗陳屋村超橫路 99 号及 113 号
Test Location at Foshan	:	1-2/F., Building 1, European Industrial Park, No.1, Shunhe South Road, Wusha, Daliang, Shunde District, Foshan, Guangdong Province, China 中國廣東省佛山市順德區大良街道辦事處五沙社區居民委員會順和南路 1 號歐洲工業園一號廠房首層及二層
ACCREDITED TEST CATEGORY **認可測試類別**	:	Construction Materials 建築材料

SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch
通標標準技術服務有限公司廣州分公司
No.198 Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong Province, China
中國廣東省廣州高新技術產業開發區科學城科珠路 198 號

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Steel:- (Chemical analysis)	Elemental composition:-	
- Stainless steel 304, 304L, 316, 316L, SUS304, SUS304L, SUS316L, 06Cr19Ni10, 022Cr19Ni10, 06Cr17Ni12Mo2, 022Cr17Ni12Mo2	- Silicon - Manganese - Phosphorus - Nickel - Chromium - Molybdenum	GB/T 11170-2008 ASTM E1086-22
- Carbon steel and low alloy steel 1020, 1040, S17C, S25C, S43C, S53C, SPCC, SPHC, S235JR, S355J2, 20, 45, Q235, Q345	- Carbon - Silicon - Manganese - Phosphorus - Sulphur - Nickel - Chromium	GB/T 4336-2016
- Carbon steel and low alloy steel S355J0, S355JR	- Carbon - Silicon - Manganese - Phosphorus - Sulphur	GB/T 4336-2016
- Carbon steel and low alloy steel 1020, 1040, S17C, S25C, S43C, S53C, SPCC, SPHC, S235JR, S355J2, 20, 45, Q235, Q345, 250, 500B, 500C	- Carbon - Silicon - Manganese - Phosphorus - Sulphur - Nickel - Chromium - Molybdenum - Copper - Vanadium - Nitrogen	ASTM E415-21
- Carbon steel and low alloy steel S355J0 (Cu content up to 0.5 %) S355JR (Cu content up to 0.5 %)	- Carbon - Silicon - Manganese - Phosphorus - Sulphur - Copper - Nitrogen	ASTM E415-21

SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch
通標標準技術服務有限公司廣州分公司
No.198 Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong Province, China
中國廣東省廣州高新技術產業開發區科學城科珠路 198 號

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Steel:- (Chemical analysis) (cont'd)	Elemental composition:-	
- Carbon steel and low alloy steel 250, 500B, 500C	- Carbon equivalent value	CS2: 2012 Cl. 1.5.1
- Steel	- Carbon - Sulphur	ASTM E1019-18 (Method A)
Metallic materials	Bend test of metallic materials	ASTM E290-14 ASTM E290-22
	Brinell hardness test of metallic materials in the scales of HBW 2.5 / 187.5, HBW 5 / 750 HBW 10 / 1000 & HBW 10 / 3000	BS EN ISO 6506-1: 2014 EN ISO 6506-1: 2014 ISO 6506-1: 2014
	Charpy V-notch impact test	ASTM E23-18 ASTM E23-23a BS EN ISO 148-1: 2016 EN ISO 148-1: 2016 ISO 148-1: 2016
	Proof load test of unmachined (finished) bolts, screws and studs in the force range 1 kN to 950 kN	BS EN ISO 898-1: 2013 Cl. 9.6 EN ISO 898-1: 2013 Cl. 9.6 ISO 898-1: 2013(E) Cl. 9.6
	Proof load test of carbon and alloy steel nuts in the force range 1 kN to 950 kN	BS EN ISO 898-2: 2022 Cl. 10.1 EN ISO 898-2: 2022 Cl. 10.1 ISO 898-2: 2022(E) Cl. 10.1
	Rockwell hardness test of metallic materials in the scales of HRA, HRB, HRC, HR30T, HR45T, HR15N, HR30N, HR45N	BS EN ISO 6508-1: 2016 (exclude portable tester) EN ISO 6508-1: 2016 (exclude portable tester) ISO 6508-1: 2016 (exclude portable tester)
	Tensile test of fasteners with waisted shank in the force range 1 kN to 950 kN	BS EN ISO 6892-1: 2019 Cl. 10.3.2 & 10.3.3 Method A & Method B in conjunction with the following specification(s): BS EN ISO 898-1: 2013 Cl. 9.5 EN ISO 898-1: 2013 Cl. 9.5 ISO 898-1: 2013(E) Cl. 9.5

SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch
通標標準技術服務有限公司廣州分公司
No.198 Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong Province, China
中國廣東省廣州高新技術產業開發區科學城科珠路 198 號

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Metallic materials (cont'd)	Tensile test of machined bolts, screws and studs in the force range 1 kN to 950 kN	BS EN ISO 6892-1: 2019 Cl. 10.3.2 & 10.3.3 Method A & Method B in conjunction with the following specification(s): BS EN ISO 898-1: 2013 Cl. 9.7 EN ISO 898-1: 2013 Cl. 9.7 ISO 898-1:2013(E) Cl. 9.7
	Tensile test of metallic materials in the force range 5 kN – 950 kN	ASTM A370-19 ASTM A370-20 ASTM A370-22 ASTM E8/E8M-16a ASTM E8/E8M-21 ASTM E8/E8M-22 BS EN ISO 6892-1: 2016 Cl. 10.3.2 & 10.3.3 Methods A1, A2 & Method B EN ISO 6892-1: 2016 Cl. 10.3.2 & 10.3.3 Methods A1, A2 & Method B ISO 6892-1: 2016 Cl. 10.3.2 & 10.3.3 Methods A1, A2 & Method B BS EN ISO 6892-1: 2019 Cl. 10.3.2 & 10.3.3 Method A & Method B EN ISO 6892-1: 2019 Cl. 10.3.2 & 10.3.3 Method A & Method B ISO 6892-1: 2019 Cl. 10.3.2 & 10.3.3 Method A & Method B in conjunction with the following specification(s): EN 10164: 2004 EN 10164: 2018
	Tensile test of unmachined (finished) bolts, screws and studs in the force range 1 kN to 950 kN	BS EN ISO 6892-1: 2019 Cl. 10.3.2 & 10.3.3 Method A & Method B in conjunction with the following specification(s): BS EN ISO 898-1: 2013 Cl. 9.2 EN ISO 898-1: 2013 Cl. 9.2 ISO 898-1: 2013(E) Cl. 9.2
	Vickers hardness test of metallic materials in the scales of HV 1, HV5 HV10 & HV 30	ASTM E92-17 BS EN ISO 6507-1: 2005 BS EN ISO 6507-1: 2018 EN ISO 6507-1: 2005 EN ISO 6507-1: 2018 ISO 6507-1: 2005 ISO 6507-1: 2018

SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch
通標標準技術服務有限公司廣州分公司
No.198 Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong Province, China
中國廣東省廣州高新技術產業開發區科學城科珠路 198 號

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Metallic materials (non-destructive)	Ultrasonic test of H beams with parallel flanges and IPE beams (manual method)	BS EN 10306: 2002
	Ultrasonic test of metallic materials (reflection method)	BS EN 10160: 1999 in conjunction with the following specifications: BS EN 10164: 2004 Cl. 5.2 BS EN 10164: 2018 Cl. 6.2
Welds (destructive)	Bend test on welds in metallic materials	EN ISO 5173: 2010 EN ISO 5173: 2010 + Amd.1: 2011 EN ISO 5173: 2023 ISO 5173: 2009 + Amd.1: 2011 ISO 5173: 2023
	Charpy V-notch impact test on welds in metallic materials	EN ISO 9016: 2011 EN ISO 9016: 2012 EN ISO 9016: 2022 ISO 9016: 2012 ISO 9016: 2012 (E) ISO 9016: 2022
	Longitudinal tensile test on welds in metallic materials in the force range 5 kN – 950 kN	EN ISO 5178: 2011 EN ISO 5178: 2019 ISO 5178: 2001 ISO 5178: 2019
	Macroscopic examination on welds in metallic materials	BS EN ISO 17639: 2013 BS EN ISO 17639: 2022 EN ISO 17639: 2013 EN ISO 17639: 2022 ISO 17639: 2003 ISO 17639: 2022
	Transverse tensile test on welds in metallic materials in the force range 5 kN – 950 kN	EN ISO 6892-1: 2016 Cl. 10.3.2 & 10.3.3 Methods A1, A2 & Method B EN ISO 6892-1: 2019 Cl. 10.3.2 & 10.3.3 Method A & Method B in conjunction with the following specification(s): EN ISO 4136: 2012 EN ISO 4136: 2022 ISO 4136: 2012 ISO 4136: 2022
	Vickers hardness test on welded joints in the scale of HV1, HV5, HV10 & HV30	EN ISO 9015-1: 2011 ISO 9015-1: 2001

SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch
通標標準技術服務有限公司廣州分公司
No.198 Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong Province, China
中國廣東省廣州高新技術產業開發區科學城科珠路 198 號

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Welds (non-destructive)	Liquid penetrant test (color contrast)	BS EN ISO 3452-1: 2013 BS EN ISO 3452-1: 2021 in conjunction with the following specifications: BS 5135: 1984 Table 18 & 19 BS 5400-6: 1999 C1.5.5.2.4.1 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 BS EN ISO 5817: 2023 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b
	Magnetic particle test (magnetic flow method, colour contrast technique using A.C. yokes)	BS EN 1290: 1998 BS EN ISO 9934-1: 2001 BS EN ISO 9934-1: 2016 BS EN ISO 17638: 2009 BS EN ISO 17638: 2016 in conjunction with the following specifications: BS 5135: 1984 Table 18 & 19 BS 5400-6: 1999 C1.5.5.2.4.1 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 BS EN ISO 5817: 2023 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b
	Ultrasonic test (Butt welds in plates & pipes, 'T'-joint welds, nozzle welds and node welds)	BS EN 1714: 1998 (Level A, B & C) BS EN ISO 17640: 2010 (Level A, B & C) BS EN ISO 17640: 2018 (Level A, B & C) in conjunction with the following specifications: BS 5135: 1984 Table 18 & 19 BS 5400-6: 1999 C1.5.5.2.4.2 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 BS EN ISO 5817: 2023 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b

SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch
通標標準技術服務有限公司廣州分公司
No.198 Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong Province, China
中國廣東省廣州高新技術產業開發區科學城科珠路 198 號

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Welds (non-destructive) (cont'd)	Visual examination	BS EN 970: 1997 BS EN ISO 17637: 2011 BS EN ISO 17637: 2016 in conjunction with the following specifications: BS 5135: 1984 Table 18 & 19 BS 5400-6: 1999 C1.5.5.2.4.1 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 BS EN ISO 5817: 2023 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b

SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch
通標標準技術服務有限公司廣州分公司

No. 99 and No. 113 Chaoheng Road, Chenwucun, Chaolang, Chashan Town, Dongguan City, Guangdong Province, China
中國廣東省東莞市茶山鎮超朗陳屋村超橫路 99 号及 113 号

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Adhesive	Pull-off test of tiles	Hong Kong Housing Authority Materials Testing Services (2024/2027) for Maintenance and Building Materials (Package B1) Specification Part D Cl. 7.11 Hong Kong Housing Authority Materials Testing Services (2024/2027) for Maintenance and Building Materials (Package B1) Specification Part D Cl. 7.11 with modifications Hong Kong Housing Authority Specification Library (2022) FIN5.T150.9 (3)
Admixture	Air content test	BS EN 12350-7: 2009 Cl. 4 (Water column method) in conjunction with the following specification(s): BS EN 934-2: 2009 + A1: 2012 Table 2(3), 3.1(3), 3.2(4), 4(3), 5(1), 6(3), 7(2), 8(3), 9(3), 10(4), 11.1(4), 11.2(3) & 12(4)
	Bleeding test	BS EN 480-4: 2005 in conjunction with the following specification(s): BS EN 934-2: 2009 + A1: 2012 Table 4(1)
	Capillary absorption	BS EN 480-5: 2005 in conjunction with the following specification(s): BS EN 934-2: 2009 + A1: 2012 Table 9(1)
	Compression strength	BS EN 12390-3: 2009 +Amd. 2011 in conjunction with the following specification(s): BS EN 934-2: 2009 + A1: 2012 Table 2(No.2), 3.1(2), 3.2(3), 4(2), 5(3), 6(2), 7(1), 8(2), 9(2), 10(1), 11.1(1), 11.2(2) & 12(1)
	Increase in consistence	BS EN 12350-2: 2009 & BS EN 480-1: 2014 BS EN 12350-5: 2009 & BS EN 480-1: 2014 in conjunction with the following specification(s): BS EN 934-2: 2009 + A1: 2012 Table 3.2(1)
	Reference concrete and reference mortar	BS EN 480-1: 2014
	Retention of consistence	BS EN 12350-2: 2009 & BS EN 480-1: 2014 BS EN 12350-5: 2009 & BS EN 480-1: 2014 in conjunction with the following specification(s): BS EN 934-2: 2009 + A1: 2012 Table 3.2(2) & 11.2(1)

SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch
通標標準技術服務有限公司廣州分公司
No. 99 and No. 113 Chaoheng Road, Chenwucun, Chaolang, Chashan Town, Dongguan City, Guangdong Province, China
中國廣東省東莞市茶山鎮超朗陳屋村超橫路 99 号及 113 号

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Admixture (cont'd)	Setting time	BS EN 480-2: 2006 in conjunction with the following specification(s): BS EN 934-2: 2001 Table 6(1), 8(1), 10(2), 11.1(2) & 12(2) BS EN 934-2: 2009 Table 6(1), 8(1), 10(2), 11.1(2) & 12(2)
	Water reduction	BS EN 12350-2: 2009 & BS EN 480-1: 2014 BS EN 12350-5: 2009 & BS EN 480-1: 2014 in conjunction with the following specification(s): BS EN 934-2: 2009 + A1: 2012 Table 2(1), 3.1(1), 10(3), 11.1(3) & 12(3)
Aggregates	Sampling of aggregates	BS 812: Part 102: 1989 (Quartering / riffling of samples) CS3: 2013 Section 8 Cl. 8.6.1 & 8.6.2 (Quartering / riffling of samples)
	Particle size distribution	BS 812: Section 103.1: 1985 + Amd. 6003 (Sieve analysis) BS EN 933-1: 2012 (by sieve method) CS3: 2013 Section 10 + Amd. 1
	Flakiness index	BS 812: Section 105.1: 1989 CS3: 2013 Section 11
	Elongation index	BS 812: Section 105.2: 1990 CS3: 2013 Section 12
	Methylene blue value	CS3: 2013 Section 13
	Los Angeles value	CS3: 2013 Section 14
	Aggregate impact value	CS3: 2013 Section 15
	Ten per cent fines value	BS 812: Part 3: 1975 + Amd. 2153, 4455, 4616 & 4845 BS 812: Part 111: 1990 CS3: 2013 Section 16
	Particle density and water absorption	BS 812: Part 2: 1995 + Amd. 9195 & 10379 Cl. 5 (Gas jar method) CS3: 2013 Section 17 (excluding 17.4) (Gas jar method and Pyknometer method)
	Moisture content	BS 812: Part 2: 1975 + Amd. 4615 (oven drying method) BS 812: Part 109: 1990 (oven drying method) CS3: 2013 Section 18

SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch
通標標準技術服務有限公司廣州分公司

No. 99 and No. 113 Chaoheng Road, Chenwucun, Chaolang, Chashan Town, Dongguan City, Guangdong Province, China
中國廣東省東莞市茶山鎮超朗陳屋村超橫路 99 号及 113 号

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Aggregates (cont'd)	Magnesium sulphate test of aggregates (Soundness)	BS 812: Part 121: 1989 BS EN 1367-2: 2009 CS3: 2013 Section 19
	Drying shrinkage	BS 812: Part 120: 1989 + Amd. 8773 CS3: 2013 Section 20
	Aggregate crushing value	BS 812: Part 110: 1990
	Alkali silica reaction potential by ultra-accelerated mortar-bar test	CS1: 2010 + Amd. No. 1/2013 Section 22 RILEM A-TC 106-2: 2000
	Bulk density, voids and bulking	BS 812: Part 2: 1995 + Amd. 9195 & 10379 Cl. 6
	Clay, silt and dust content	BS 812: Part 1: 1975 + Amd. 2069, 4527 & 4875 (Decantation method)
	Relative density and water absorption	BS 812: Part 2: 1975 + Amd. 4615 Cl. 5 (Gas jar method)
	Resistance of aggregates to fragmentation	BS EN 1097: Part 2: 2010 Cl. 5
	Shell content in coarse aggregates	BS 812: Part 106: 1985
Cement	Compressive strength of broken prisms in the force range 2 kN - 300 kN	BS EN 196-1: 1995 BS EN 196-1: 2005 BS EN 196-1: 2016 in conjunction with the following specification(s): BS EN 197-1: 2000 BS EN 197-1: 2011
	Density	BS EN 196-6: 1992 Annex NC BS EN 196-6: 2010 Annex NC in conjunction with the following specification(s): BS EN 196-6: 2018 Cl. 4.5.3
	Fineness	BS EN 196-6: 1992 (by Blaine method) BS EN 196-6: 2010 (by Blaine method) BS EN 196-6: 2018 (by Blaine method)
	Flexural strength of mortar prisms in the force range 2 kN - 10 kN	BS EN 196-1: 1995 BS EN 196-1: 2005 BS EN 196-1: 2016

SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch
通標標準技術服務有限公司廣州分公司

No. 99 and No. 113 Chaoheng Road, Chenwucun, Chaolang, Chashan Town, Dongguan City, Guangdong Province, China
中國廣東省東莞市茶山鎮超朗陳屋村超橫路 99 号及 113 号

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Cement (cont'd)	Setting times	BS EN 196-3: 1995 BS EN 196-3: 2005 + A1: 2008 BS EN 196-3: 2016 in conjunction with the following specification(s): BS EN 197-1: 2000 BS EN 197-1: 2011
	Soundness	BS EN 196-3: 1995 BS EN 196-3: 2005 + A1: 2008 BS EN 196-3: 2016 in conjunction with the following specification(s): BS EN 197-1: 2000 BS EN 197-1: 2011
	Standard consistence	BS EN 196-3: 1995 BS EN 196-3: 2005 + A1: 2008 BS EN 196-3: 2016
Concrete	Sampling fresh concrete on site	BS EN 12350-1:2009 CS1: 2010 Section 1
	Slump of fresh concrete	CS1: 2010 Section 2 Part I
	Flow table test	CS1: 2010 Section 2 Part IV
	Stiffening time of fresh concrete	CS1: 2010 Section 3
	Density of compacted fresh concrete	BS EN 12350-6: 2000 CS1: 2010 Section 5
	Air content of fresh concrete	CS1: 2010 Section 6
	Making test cubes from fresh concrete	BS EN 12390-2: 2009 CS1: 2010 Section 7
	Curing of test specimens	BS EN 12390-2: 2009 CS1: 2010 Section 10
	Compressive strength of concrete cubes in the force range 100 kN to 2000 kN	CS1: 2010 Section 12
	Density of hardened concrete	BS EN 12390-7: 2009 CS1: 2010 Section 16

SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch
通標標準技術服務有限公司廣州分公司
No. 99 and No. 113 Chaoheng Road, Chenwucun, Chaolang, Chashan Town, Dongguan City, Guangdong Province, China
中國廣東省東莞市茶山鎮超朗陳屋村超橫路 99 号及 113 号

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Concrete (cont'd)	Bleeding test	BS EN 480-4: 2005
	Suitability of water for making concrete (strength and setting time)	BS EN 196-1: 1995 BS EN 196-3: 1995 in conjunction with the following specification(s): BS EN 1008: 2002 Cl. 4.4
	Temperature measurement of fresh concrete	BS 5328: Part 4: 1990 Cl. 3.4(b)
	Water absorption	BS 1881: Part 122: 1983 + Amd. 6180
Ground Granulated Blastfurnace Slag (GGBS)	Activity Index	BS EN 196-1: 1995 BS EN 196-1: 2005 BS EN 196-1: 2016 in conjunction with the following specification(s) BS EN 15167-1: 2006 Cl.5.3.2.3
	Density	BS EN 196-6: 1992 Annex NC with modification BS EN 196-6: 2010 Annex NC with modification in conjunction with the following specification(s): BS EN 15167-1: 2006 Cl. 5.5g
	Fineness	BS EN 196-6: 1992 (by Blaine method) BS EN 196-6: 2010 (by Blaine method) in conjunction with the following specification(s) BS EN 15167-1: 2006 Cl.5.3.1
	Flexural strength	BS EN 196-1: 1995 with modifications BS EN 196-1: 2005 with modifications BS EN 196-1: 2016 with modifications
	Initial setting time	BS EN 196-3: 1995 BS EN 196-3: 2005 + A1: 2008 BS EN 196-3: 2016 in conjunction with the following specification(s) BS EN 15167-1: 2006 Cl.5.3.2.2
	Moisture content	BS EN 15167-1: 2006 Annex A
	Standard consistence	BS EN 196-3: 1995 with modifications BS EN 196-3: 2005 + A1: 2008 with modifications BS EN 196-3: 2016 with modifications in conjunction with the following specification(s): BS EN 15167-1: 2006 Cl.5.3.2.2

SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch
通標標準技術服務有限公司廣州分公司

No. 99 and No. 113 Chaoheng Road, Chenwucun, Chaolang, Chashan Town, Dongguan City, Guangdong Province, China
中國廣東省東莞市茶山鎮超朗陳屋村超橫路 99 号及 113 号

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Pulverized fuel ash (PFA)	Activity index	BS EN 196-1: 1995 BS EN 196-1: 2005 BS EN 196-1: 2016 in conjunction with the following specification(s): BS EN 450-1: 2012 Cl. 5.3.2
	Fineness	BS 3892: Part 1: 1982 + Amd. 4629 App. D BS 3892: Part 1: 1997 Annex D BS EN 451-2: 1995 in conjunction with the following specification(s): BS EN 450-1: 2012 Cl. 5.3.1
	Initial setting time	BS EN 196-3: 1995 BS EN 196-3: 2005 + A1: 2008 BS EN 196-3: 2016 in conjunction with the following specification(s): BS 3892 : Part 1: 1997 Cl. 10 BS 3892 : Part 1: 1997 Cl. 10 with modification BS EN 450-1: 2012 Cl. 5.3.5
	Moisture content	BS 3892: Part 1: 1982 + Amd. 4629 App. B BS 3892: Part 1: 1997 Annex C
	Particle density	BS EN 196-6: 1992 Annex NC BS EN 196-6: 2010 Annex NC in conjunction with the following specification(s): BS 3892: Part 1: 1997 Cl. 7 BS EN 1097-7: 2008
	Soundness	BS EN 196-3: 1995 BS EN 196-3: 2005 + A1: 2008 BS EN 196-3: 2016 in conjunction with the following specification(s): BS 3892: Part 1: 1997 Cl. 11 BS 3892: Part 1: 1997 Cl. 11 with modification BS EN 450-1: 2012 Cl. 5.3.3
	Strength factor	BS 3892: Part 1: 1997 Cl. Annex F BS 3892: Part 1: 1997 Cl. Annex F with modifications in conjunction with the following specification(s): BS 3892: Part 1: 1997 Cl. 9

SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch
通標標準技術服務有限公司廣州分公司

No. 99 and No. 113 Chaoheng Road, Chenwucun, Chaolang, Chashan Town, Dongguan City, Guangdong Province, China
中國廣東省東莞市茶山鎮超朗陳屋村超橫路 99 号及 113 号

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Pulverized fuel ash (PFA) (cont'd)	Water requirement	BS 3892: Part 1: 1982 + Amd. 4629 App. E BS 3892: Part 1: 1997 Annex E BS 3892: Part 1: 1997 Annex E with modifications BS EN 450-1: 2012 Annex B in conjunction with the following specification(s): BS EN 450-1: 2012 Cl. 5.3.6

SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch
通標標準技術服務有限公司廣州分公司
1-2/F., Building 1, European Industrial Park, No.1, Shunhe South Road, Wusha, Daliang, Shunde District, Foshan, Guangdong Province, China
中國廣東省佛山市順德區大良街道辦事處五沙社區居民委員會順和南路 1 號歐洲工業園一號廠房首層及二層

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Fire (Fire Resistance Tests)	Fire resistance tests for loadbearing horizontal elements in the force range 0kN-320kN	BS 476: Part 20: 1987 + Amd. 6487 + Corr. 1: 2014 and BS 476: Part 21: 1987 + Corr. 1: 2014
	Fire resistance tests for non-loadbearing vertical and horizontal elements of building construction	BS 476: Part 20: 1987 + Amd. 6487 + Corr. 1: 2014 and BS 476: Part 22: 1987 + Corr. 1: 2014
	Fire resistance tests - general requirements alternative and additional procedures (excluding impact test)	BS EN 1363-1: 2020
	Fire resistance tests for non-loadbearing vertical elements (excluding impact test)	EN 1364-1-2015 excluding Cl. 9.5
Fire (Other)	Non-combustibility test for building materials	BS 476: Part 4: 1970 + Amd. 2483 & 4390 + Corr. 1: 2014
	Fire tests on building materials and structures Method of test for fire propagation for products	BS 476: Part 6: 1989 + Amd. A1 + Corr. 1: 2014
	Fire tests on building materials and structures Method of test to determine the classification of the surface spread of flame of products	BS 476: Part 7: 1997 + Corr. 1: 2014

Smith & Associates Far East Limited – Counterfeit Detection Laboratory

ADDRESS 地址	:	1/F, Continental Electric Industrial Building, 17 Wang Chiu Road, Kowloon Bay, Kowloon, Hong Kong 香港九龍灣宏照道17號康大電業工業大廈1樓
ENQUIRY 查詢	:	Ms JIANG Anwen, Operations Manager, Asia 蔣安文女仕
TELEPHONE 電話	:	2399 8141
E-MAIL 電郵	:	ajiang1@nfsmithfe.com
CLIENTELE 服務對象	:	Public 公眾

Smith & Associates Far East Limited – Counterfeit Detection Laboratory

ADDRESS **地址**	:	1/F, Continental Electric Industrial Building, 17 Wang Chiu Road, Kowloon Bay, Kowloon, Hong Kong 香港九龍灣宏照道 17 號康大電業工業大厦 1 樓
ACCREDITED TEST CATEGORY **認可測試類別**	:	Physical and Mechanical Testing 物理及機械測試

Smith & Associates Far East Limited – Counterfeit Detection Laboratory

1/F, Continental Electric Industrial Building, 17 Wang Chiu Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍灣宏照道 17 號康大電業工業大廈 1 樓

Physical and Mechanical Testing 物理及機械測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Integrated Circuit Components		
- Hermetic and nonhermetic solid state surface mount devices	Examination of internal construction of solid state surface mount devices using X-ray inspection system for the following items :- - Broken or missing bond wires - Die size - Die construction	IDEA-STD-1010-B: 2011, Section 11.4
- Nonhermetic solid state surface mount devices	Examination of internal construction of solid state surface mount devices using microscope after decapsulation for the following items:- - Part number - Markings - Manufacturer - Copyright date - Wafer art - No die or blank die - Damaged wafers - OCM rejection dots	IDEA-STD-1010-B: 2011, Section 11.7

Foundation Testing Services Limited
地基測試有限公司

ADDRESS : Workshop A, 10/F, Valiant Industrial Centre, Nos. 2-12 Au Pui Wan Street, Fotan, Shatin, New Territories, Hong Kong
地址 香港新界沙田火炭坳背灣街 2-12 號威力工業中心 10 樓 A 室

ENQUIRY : Ms NG Wai-yu, Senior Secretary
查詢 吳慧如小姐，高級秘書

TELEPHONE : (852) 2310 8787
電話

FAX : (852) 2310 8677
傳真

E-MAIL : fts@fdntesting.com
電郵

WEBSITE ADDRESS : www.fdntesting.com
網址

CLIENTELE : Public
服務對象 公眾

Foundation Testing Services Limited
地基測試有限公司

ADDRESS **地址**	:	Workshop A, 10/F, Valiant Industrial Centre, Nos. 2-12 Au Pui Wan Street, Fotan, Shatin, New Territories, Hong Kong 香港沙田火炭坳背灣街 2-12 號威力工業中心 10 樓 A 室
ACCREDITED TEST CATEGORY **認可測試類別**	:	Construction Materials 建築材料

Foundation Testing Services Limited
地基測試有限公司
Workshop A, 10/F, Valiant Industrial Centre, Nos. 2-12 Au Pui Wan Street, Fotan, Shatin, New Territories, Hong Kong
香港沙田火炭坳背灣街 2-12 號威力工業中心 10 樓 A 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Foundation	Compression static loading test on pile (SLT)	Buildings Department Code of Practice for Foundations (2017) Cl. 8.4
	Crosshole sonic logging test (SOLT)	ASTM D6760-08 ASTM D6760-16
	Pile dynamic test (PDA)	ASTM D4945-17
	Ultrasonic echo sounder test (UEST)	Hong Kong Concrete Institute TM3 Issue 2 (2024)
Rock	Point load strength index of rock by diametral and axial tests	ASTM D5731-95 International Society for Rock Mechanics (1985) Suggested method for determining point load strength

Hong Kong Precious Metals Assay Centre Limited
香港貴金屬驗證中心有限公司

ADDRESS 地址	:	14/F, Gold & Silver Commercial Building, 12-18 Mercer Street, Sheung Wan, Hong Kong 香港上環孖沙街12-18號金銀商業大廈14樓
ENQUIRY 查詢	:	Ms FU Wing-kee, Laboratory Manager 符詠琪小姐，驗證中心經理
TELEPHONE 電話	:	(852) 2660 2533
E-MAIL 電郵	:	kathy.fu@hkgx.com.hk
CLIENTELE 服務對象	:	Public 公眾

Hong Kong Precious Metals Assay Centre Limited
香港貴金屬驗證中心有限公司

ADDRESS **地址**	:	14/F, Gold & Silver Commercial Building, 12-18 Mercer Street, Sheung Wan, Hong Kong 香港上環孖沙街 12-18 號金銀商業大廈 14 樓
ACCREDITED TEST CATEGORY **認可測試類別**	:	Chemical Testing 化學測試

Hong Kong Precious Metals Assay Centre Limited
香港貴金屬驗證中心有限公司
14/F, Gold & Silver Commercial Building, 12-18 Mercer Street, Sheung Wan, Hong Kong
香港上環孖沙街 12-18 號金銀商業大廈 14 樓

Chemical Testing 化學測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Gold and gold alloys	Fineness	ISO 11426: 2014 <*Excluding the following*> Cl. 7.3.3 GB/T 9288: 2019 <*Excluding the following*> Cl. 8.4.3
Gold and gold alloys (excluding those containing platinum or palladium)	Fineness	ISO 11426: 2021 <*Excluding the following*> Cl. 8.4

TÜ V SÜ D Hong Kong Limited
南德認證檢測香港有限公司

ADDRESS : 3/F, West Wing, Lakeside 2, 10 Science Park West Avenue, Science Park, Shatin, Hong Kong
地址 香港沙田科學園科技大道西10號浚湖樓西翼3樓

ENQUIRY : Mr Jack LUI Ho-yin, Quality Management Representative
查詢 呂浩然先生, 質量管理代表

TELEPHONE : 2788 5161
電話

FAX : 2944 0005
傳真

E-MAIL : Jack.Lui@tuvsud.com
電郵

WEBSITE ADDRESS : www.tuv-sud.cn
網址

CLIENTELE : Public
服務對象 公眾

TÜ V SÜ D Hong Kong Limited
南德認證檢測香港有限公司

ADDRESS **地址**	:	3/F, West Wing, Lakeside 2, 10 Science Park West Avenue, Science Park, Shatin, Hong Kong 香港沙田科學園科技大道西 10 號浚湖樓西翼 3 樓 18/F & 19/F, Yuen Long Trading Centre, 33 Wang Yip Street West, Yuen Long, New Territories, Hong Kong 香港元朗宏業西街 33 號元朗貿易中心 18 及 19 樓
ACCREDITED TEST CATEGORY **認可測試類別**	:	Food 食品 Toys and Children's Products 玩具及兒童產品

TÜ V SÜ D Hong Kong Limited
南德認證檢測香港有限公司
18/F & 19/F, Yuen Long Trading Centre, 33 Wang Yip Street West, Yuen Long, New Territories, Hong Kong
香港元朗宏業西街 33 號元朗貿易中心 18 及 19 樓

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Toxicology tests :-	
Food containers (PE and PP)		Specification, Standards and Testing Methods for Foodstuffs, Implements, Containers and Packaging, Toys, Detergents 2008 - Part II (English version published by JETRO, January 2009)
	- Evaporation residues	Section B-5
Food containers (Phenol resin, Melamine resin, Urea resin, synthetic resin made from formaldehyde)		Specification, Standards and Testing Methods for Foodstuffs, Implements, Containers and Packaging, Toys, Detergents 2008 - Part II (English version published by JETRO, January 2009)
	- Elution Test of Formaldehyde	Section B-8 and D-2

TÜ V SÜ D Hong Kong Limited
南德認證檢測香港有限公司
18/F & 19/F, Yuen Long Trading Centre, 33 Wang Yip Street West, Yuen Long, New Territories, Hong Kong
香港元朗宏業西街 33 號元朗貿易中心 18 及 19 樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests :- (cont'd)	
All toys - paints and similar surface coating materials	- Total lead content	ASTM F963-23 Cl. 4.3.5.1 (1) *Test procedures for compliance testing:* CPSC Test Method: CPSC-CH-E1003-09.1 Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings, February 25, 2011
	- Migration of the elements Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	ASTM F963-23 Cl. 4.3.5.1 (2) *Test procedures for compliance testing:* ASTM F963-23 Cl. 8.3.2 – 8.3.4
Toys – substrate materials (exclude siliceous materials)	- Total lead content	ASTM F963-23 Clause 4.3.5.2 (2) (a) *Test procedures for compliance testing:* CPSC Test Method: CPSC-CH-E1001-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Children's Metal Products (Including Children's Metal Jewelry), November 15, 2012 ***<excluding the following>*** XRF Spectrometry CPSC Test Method CPSC-CH-E1002-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in non-Metal Children's Products, November 15, 2012 ***<excluding the following>*** XRF Spectrometry
	- Migration of the elements Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	ASTM F963-23 Cl. 4.3.5.2(2) (b) & (c) *Test procedures for compliance testing:* ASTM F963-23 Cl. 8.3.5
Metallic toys or metallic toy components	- Extractable Cadmium	ASTM F963-23 Cl. 4.3.5.2(2) (d) *Test procedures for compliance testing:* ASTM F963-23 Cl. 8.3.5.5(3) and CPSC Test Method: CPSC-CH-E1004-11 Standard Operating Procedure for Determining Cadmium (Cd) Extractability from Children's Metal Jewelry February 03, 2011

TÜ V SÜ D Hong Kong Limited
南德認證檢測香港有限公司
18/F & 19/F, Yuen Long Trading Centre, 33 Wang Yip Street West, Yuen Long, New Territories, Hong Kong
香港元朗宏業西街 33 號元朗貿易中心 18 及 19 樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests :- (cont'd)	
Toys (including pacifiers, rattles, and teethers) for children 12 years of age and younger	- Dibutyl phthalate (DBP) - Bis (2-ethylhexyl) phthalate (DEHP) - Butyl benzyl phthalate (BBP) - Diisobutyl phthalate (DIBP) - Di-isononyl phthalate (DINP) - Di-n-pentyl phthalate (DPENP) - Di-n-hexyl phthalate (DHEXP) - Dicyclohexyl phthalate (DCHP)	ASTM F963-23 Cl. 4.3.8 *Test procedures for compliance testing:* CPSC Test Method: CPSC-CH-C1001-09.4 Standard Operating Procedure for Determining of Phthalates, 17 January 2018 (extraction and analysis method**:** CPSC-CH-C1001-09.4)
Toys and other articles intended for use by children – paint and other similar surface-coating materials	- Total lead content	US Public Law 110 -314 Consumer Product Safety Improvement Act 2008 US 16 CFR Part 1303 *Test procedures for compliance testing:* CPSC Test method: CPSC-CH-E1003-09.1 Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings, February 25, 2011
Children's metal products	- Total lead content	*Test Procedures for Compliance testing*: CPSC Test Method: CPSC-CH-E1001-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Children's Metal Products (Including Children's Metal Jewelry), November 15, 2012 ***<Excluding the following>*** XRF-Spectrometry
Children's non-metal products	- Total lead content	*Test Procedures for Compliance testing*: CPSC Test Method: CPSC-CH-E1002-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Non-Metal Children's Products, November 15, 2012 ***<Excluding the following>*** XRF-Spectrometry

TÜ V SÜ D Hong Kong Limited
南德認證檢測香港有限公司
18/F & 19/F, Yuen Long Trading Centre, 33 Wang Yip Street West, Yuen Long, New Territories, Hong Kong
香港元朗宏業西街 33 號元朗貿易中心 18 及 19 樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests :- (cont'd)	
Toys and childcare articles	- Dibutyl phthalate (DBP) - Bis (2-ethylhexyl) phthalate (DEHP) - Butyl benzyl phthalate (BBP) - Diisobutyl phthalate (DIBP) - Di-isononyl phthalate (DINP) - Di-n-pentyl phthalate (DPENP) - Di-n-hexyl phthalate (DHEXP) - Dicyclohexyl phthalate (DCHP)	US Public Law 110 -314 Consumer Product Safety Improvement Act 2008, Its Amending Act (Public Law 112-28), Title 1 US 16 CFR Part 1307 *Test Procedures for Compliance testing:* CPSC Test Method: CPSC-CH-C1001-09.4 Standard Operating Procedure for Determination of Phthalates, January 17, 2018
Toys	- Migration of the elements: Antimony, Chromium, Selenium, Arsenic, Cadmium, Mercury, Barium, Lead	AS/NZS ISO 8124.3: 2021 (for dewaxing: Method A) ISO 8124-3: 2020 (for dewaxing: Method A)
Toys	- Migration of certain elements	BS EN71-3: 2019 + A1: 2021 EN71-3: 2019 + A1: 2021
Category III Toy materials: Scraped-off materials	Aluminium, Antimony, Arsenic, Barium, Boron, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Mercury, Nickel, Selenium, Strontium, Tin and Zinc	Annex E (ICP-MS)
	Chromium (for screening for Cr(VI)) Tin (for screening for total organic tin)	Alternative method as documented in CHM_GCN_WT_01.260E (ICP-MS)
	Chromium (VI) Chromium (III) by calculation	Alternative method as documented in CHM_GCN_WT_01.260E (IC-UV-VIS)
	Organic tin: Methyl tin, Butyltin, Dibutyl tin, Tributyl tin, Tetrabutyl tin, n-Octyl tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin, Triphenyl tin, Dimethyl-tin	Annex G (GC-MS)

TÜ V SÜ D Hong Kong Limited
南德認證檢測香港有限公司
18/F & 19/F, Yuen Long Trading Centre, 33 Wang Yip Street West, Yuen Long, New Territories, Hong Kong
香港元朗宏業西街 33 號元朗貿易中心 18 及 19 樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests (cont'd):-	Specifications and Standards for Foods, Food Additives, etc. under the Food Sanitation Act (ABSTRACTS) 2010, JETRO April 2011, Part V "TOYS" *Test procedure for compliance testing:-* Specifications, Standards and Testing Methods for Foodstuffs, Implements, Containers and Packaging, Toys, Detergents, JETRO January 2009 (following the tentative English translation published by JETRO January 2009)
Coating film of toys	- Cadmium, lead and arsenic	Part III Section A Paragraph 4 & Part II B-9 (by ICP-OES)
Coating film coated by using Polyvinyl chloride	- Potassium permanganate consumption - Evaporation of residue	Part III Section A Paragraph 5 & Part II B-1 Part III Section A Paragraph 5 & Part II B-5
Parts (excluding coating film) manufactured using materials mainly composed of polyvinyl chloride	- Potassium permanganate consumption - Heavy metals - Cadmium - Evaporation of residue - Arsenic	Part III Section A Paragraph 6 & Part III A-5(2)a & Part II B-1 Part III Section A Paragraph 6 & Part III A-1(2)a & Part II B-4 Part III Section A Paragraph 6 & Part II B-9 Part III Section A Paragraph 6 & Part III A-5(2)b & Part II B-5 Part III Section A Paragraph 6 & Part III A-1(2)b & Part II B-7
Plasticized material in toys (Polyvinyl chloride, Polyurethane and rubber)	- Di-(2-ethylhexyl)phthalate (DEHP) - Dibutyl Phthalate (DBP) - Butyl benzyl phthalate (BBP) - Di-isononyl phthalate (DNP) - Di-isodecyl phthalate (DIDP) - Di-n-octyl phthalate (DnOP)	Part III Section A Paragraph 7-8 *Test procedures for compliance testing:* Japan Toy Safety Standard ST2012 Part 3 Cl.2.10 (by GC-MSD)
Parts (excluding coating film) manufactured using materials mainly composed of polyethylene	- Potassium permanganate consumption - Heavy metals - Evaporation of residue - Arsenic	Part III Section A Paragraph 9 & Part III A-5(2)a & Part II B-1 Part III Section A Paragraph 9 & Part III A-1(2)a & Part II B-4 Part III Section A Paragraph 9 & Part III A-5(2)b & Part II B-5 Part III Section A Paragraph 9 & Part III A-1(2)b & Part II B-7
Metal jewelry toys that might be swallowed by infants and small children	- Lead	Part III Section A Paragraph 10 & Part II B-9 (by ICP-OES)
Synthetic resin-based colouring agents used in the manufacture of toys	- Colouring agent	Part III Section B

TÜ V SÜ D Hong Kong Limited
南德認證檢測香港有限公司
18/F & 19/F, Yuen Long Trading Centre, 33 Wang Yip Street West, Yuen Long, New Territories, Hong Kong
香港元朗宏業西街 33 號元朗貿易中心 18 及 19 樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests (cont'd):-	Japan Toy Safety Standard ST2012, English version (2012.9.27), Part 3
Materials which are mainly composed of polyethylene	- Residue on evaporation	Cl. 1.2.2 (2) & Cl. 2.3
The paint coating applied to the body or the components of the toys, (including vinyl chloride resin coating; excluding the printing ink used for paper containers)	- Heavy metals: 8 elements (antimony, arsenic, barium, cadmium, chromium, lead, mercury and selenium)	Cl. 1.5 & Cl. 2.7 (1) ①, (2) & (3) (by ICP-OES) ***<Excluding the following>*** Clause 1.5.3
Ink and the like used for the *g*raphic instruments that are provided with the toys such as pencils, ball-point pens, markers, crayons, pastels, water colours, chalks, etc.	- Heavy metals: 8 elements (antimony, arsenic, barium, cadmium, chromium, lead, mercury and selenium)	Cl. 1.8.2 & Cl. 2.7 (1) ②, (2) & (3) (by ICP-OES)
Synthetic resin mainly composed of polyvinyl chloride, for which phthalate compound is used as raw material (including those used for paint coating)	- Bis (2-ethylhexyl) phthalate (DEHP) - Dibutyl phthalate (DBP) - Butyl benzyl phthalate (BBP) - Di-isononyl phthalate (DINP) - Di-isodecyl phthalate (DIDP) - Di-n-octyl phthalate (DNOP)	Cl. 1.9 & Cl. 2.10 (by GC-MSD) ***<Excluding the following>*** Clause 1.9.3
Metals used for toys (neither painted nor covered)	- Lead	Cl. 1.11 & Cl. 2.12 & 2.7 (2) & (3) (by ICP-OES)

TÜ V SÜ D Hong Kong Limited
南德認證檢測香港有限公司
18/F & 19/F, Yuen Long Trading Centre, 33 Wang Yip Street West, Yuen Long, New Territories, Hong Kong
香港元朗宏業西街 33 號元朗貿易中心 18 及 19 樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests (cont'd):-	Japan Toy Safety Standard ST 2016 English version (2016.04.01), Part 3
All toys' materials	- Colouring matters	Cl. 1.1 & Cl. 2.1
Materials which are mainly composed of polyvinyl chloride and polyethylene, (excluding parts on which paint coating is applied)	- Consumption of potassium permanganate - Residue on evaporation - Heavy metals - Arsenic - Cadmium (excluding materials mainly composed of polyethylene)	Cl. 1.2 & Cl. 2.2 Cl. 1.2 & Cl. 2.3 Cl. 1.2 & Cl. 2.4 Cl. 1.2 & Cl. 2.5 Cl. 1.2 & Cl. 2.6 (by ICP-OES)
The paint coating applied to the body or the components of the toys, (including vinyl chloride resin coating; excluding the printing ink used for paper containers)	- Heavy metals: 8 elements (antimony, arsenic, barium, cadmium, chromium, lead, mercury and selenium)	Cl. 1.5 & Cl. 2.7 (1) ①, (2) & (3) (by ICP-OES) < ***Excluding the following*** > Cl. 1.5.3
Ink and the like used for the graphic instruments that are provided with the toys such as pencils, ball-point pens, markers, crayons, pastels, water colours, chalks, etc.	- Heavy metals: 8 elements (antimony, arsenic, barium, cadmium, chromium, lead, mercury and selenium)	Cl. 1.8 & Cl. 2.7 (1) ②, (2) & (3) (by ICP-OES)
Synthetic resin mainly composed of polyvinyl chloride, for which phthalate compound is used as raw material (including those used for paint coating)	- Bis (2-ethylhexyl) phthalate (DEHP) - Dibutyl phthalate (DBP) - Butyl benzyl phthalate (BBP) - Di-isononyl phthalate (DINP) - Di-isodecyl phthalate (DIDP) - Di-n-octyl phthalate (DNOP)	Cl. 1.9 & Cl. 2.10 (by GC-MSD) < ***Excluding the following*** > Cl. 1.9.3
Metals used for toy (neither painted nor covered)	- Lead	Cl. 1.11 & Cl. 2.12 & 2.7 (2) & (3) (by ICP-OES)

TÜ V SÜ D Hong Kong Limited
南德認證檢測香港有限公司
18/F & 19/F, Yuen Long Trading Centre, 33 Wang Yip Street West, Yuen Long, New Territories, Hong Kong
香港元朗宏業西街 33 號元朗貿易中心 18 及 19 樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Flammability tests:-	
Toys	- Safety requirements and test methods	ISO 8124-2: 2014 AS/NZS 8124.2: 2016 ***<Excluding the following>*** For the above two standards Tests for flammable gases, extremely flammable liquids, highly flammable liquids, flammable liquids and flammable gels
	- Safety requirements and test methods	ISO 8124-2: 2023 AS/NZS 8124.2: 2023 ***<Excluding the following>*** For the above two standards Tests for flammable gases, extremely flammable liquids, highly flammable liquids, flammable liquids and flammable gels
	- Safety requirements and test methods	ASTM F963-23 Section 4.2
	- Safety requirements and test methods	EN 71-2: 2020 BS EN 71-2: 2020 ***<Excluding the following>*** For the above two standards Tests for flammable gases, extremely flammable liquids, highly flammable liquids, flammable liquids and flammable gels

TÜ V SÜ D Hong Kong Limited
南德認證檢測香港有限公司
18/F & 19/F, Yuen Long Trading Centre, 33 Wang Yip Street West, Yuen Long, New Territories, Hong Kong
香港元朗宏業西街 33 號元朗貿易中心 18 及 19 樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Physical and mechanical tests:-	
Toys	- Safety requirements and test methods	ISO 8124-1: 2018 + A1: 2020 + A2: 2020 AS/NZS ISO 8124.1: 2019 + A1: 2020 + A2: 2020 ***<Excluding the following>*** For the above two standards Cl. 4.11.11, 4.13.3, 4.15, 4.21 to 4.23, 4.27, 4.30
	- Safety requirements and test methods	ISO 8124-1: 2022 AS/NZS ISO 8124.1: 2023 ***<Excluding the following>*** For the above two standards Cl. 4.11.11, 4.13.3, 4.15, 4.21 to 4.23, 4.27, 4.30
	- Safety requirements and test methods	EN 71-1: 2014 + A1: 2018 ***< Excluding the following >*** Cl. 4.13, 4.15, 4.18 (test to EN 15649-3), 4.19, 4.20.2.5 (tests for toys using headphones or earphones), 4.20.2.12 (tests for voice toys), 5.6
Toys		ASTM F963-23
	- Safety requirements	Section 4.5, 4.6, 4.7, 4.8, 4.9, 4.10, 4.11, 4.12, 4.13, 4.14, 4.16, 4.17, 4.18, 4.19, 4.21, 4.22, 4.23, 4.23.1, 4.23.2, 4.24, 4.26, 4.27, 4.28, 4.30, 4.31, 4.32, 4.33, 4.34, 4.35, 4.36, 4.38, 4.39, 4.40 and 4.41 ***< Excluding the following >*** Section 4.14.4
	- Labeling requirements	Section 5
	- Instructional literature	Section 6
	- Producer's markings	Section 7
	- Test methods	Section 8

TÜ V SÜ D Hong Kong Limited
南德認證檢測香港有限公司
3/F, West Wing, Lakeside 2, 10 Science Park West Avenue, Science Park, Shatin, Hong Kong
香港沙田科學園科技大道西 10 號浚湖樓西翼 3 樓

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Electrical tests :-	
Battery operated toys	- Safety tests	ASTM F963-23 Section 4.25 < ***Excluding the following*** > Section 4.25.7.1, 4.25.9, 4.25.10
Electric toys	- Compliance inspection and safety tests	BS EN 62115: 2020 + A11: 2020 < ***Excluding the following*** > Cl. 5.1 (dynamic strength test for wheeled ride-on toys), 9.10 (test for coated metal), 11, 13.4.1 (push and pull test), 13.8, 13.9, 13.10, 18.1, 18.2.2 (burning tests to IEC 60695-11-10 and ISO 9772), 18.2.3 and 19, Annex B, C, D, E, F, G, H, I and J

AQuality TestConsult Limited
東恒測試顧問有限公司

ADDRESS : No.11 A&B, Kai Fong Garden, Ping Che Road, Fanling, New Territories, Hong Kong
地址 香港新界粉嶺坪輋路啟芳園11號A&B

ENQUIRY : Mr Dennis CHAN Leung-chor, Senior Manager
查詢 陳良初先生，高級經理

TELEPHONE : 2674 0478
電話

FAX : 2674 1177
傳真

E-MAIL : main.aqtl@gmail.com
電郵

WEBSITE ADDRESS : http://www.aqtlgroup.com/
網址

CLIENTELE : Public
服務對象 公眾

AQuality TestConsult Limited
東恒測試顧問有限公司

ADDRESS **地址**	No.11 A&B, Kai Fong Garden, Ping Che Road, Fanling, New Territories, Hong Kong 香港新界粉嶺坪輋路啟芳園 11 號 A&B
ACCREDITED TEST CATEGORIES **認可測試類別**	: Calibration Services 校正服務 Construction Materials 建築材料

AQuality TestConsult Limited
東恒測試顧問有限公司
No.11 A&B, Kai Fong Garden, Ping Che Road, Fanling, New Territories, Hong Kong
香港新界粉嶺坪輋路啟芳園 11 號 A&B

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Construction materials testing equipment		
- Compacting bar	Calibration in accordance with in-house method CON-L-011 for the dimensional requirements as specified in the following specifications:	
	BS EN 12390-2: 2000 Cl. 3.3d	
	Dimensions of ramming face: 25 mm x 25 mm	0.04 mm
	Length: 380 mm	0.57 mm
	Verification in accordance with in-house method CON-L-011 for the dimensional and mass requirements as specified in the following specifications:	
	CS1: 2010: Vol. 1 App. A10	
	Dimensions of ramming face: 25 mm x 25 mm	0.04 mm
	Length: not less than 380 mm	0.57 mm
	Mass: 1.8 kg	4 g
- Cube mould	Verification in accordance with in-house method CON-L-003 for the dimensional requirements as specified in the following specifications:	
	BS EN 12390-1: 2000 Cl. 5.2.4	
	Dimensions: 100 mm	0.06 mm
	Flatness of the four side faces: not more than 0.03 mm (for new moulds) or 0.05 mm (for moulds in use)	0.01 mm
	Flatness of the top surface of the baseplate: not more than 0.06 mm (for new moulds) or 0.1 mm (for moulds in use)	0.01 mm
	Perpendicularity of the sides: not more than 0.5 mm	0.01 mm
	Dimensions: 150 mm	0.06 mm
	Flatness of the four side faces: not more than 0.045 mm (for new moulds) or 0.075 mm (for moulds in use)	0.01 mm
	Flatness of the top surface of the baseplate: not more than 0.09 mm (for new moulds) or 0.15 mm (for moulds in use)	0.01 mm
	Perpendicularity of the sides: not more than 0.5 mm	0.01 mm
	CS1: 2010: Vol. 1 App. A25	
	Dimensions: 100 mm or 150 mm	0.06 mm
	Flatness: not more than 0.03 mm or 0.06 mm	0.01 mm
	Perpendicularity: not more than 0.5 mm	0.01 mm
	Parallelism: not more than 1.0 mm	0.06 mm

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

AQuality TestConsult Limited
東恒測試顧問有限公司
No.11 A&B, Kai Fong Garden, Ping Che Road, Fanling, New Territories, Hong Kong
香港新界粉嶺坪輋路啟芳園 11 號 A&B

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Construction materials testing equipment (Cont'd)		
- Curing tank	On-site verification in accordance with in-house methods CON-L-001a and CON-L-002 for the parameters as specified in CS1: 2010: Vol. 1 App. A28	
	Temperature distribution at a range of (27 ± 3) ℃	0.5 ℃
	Efficiency of circulation	30 s
- Drying oven	On-site calibration of temperature setting and temperature variation in accordance with in-house method SRT-L-002a over the following range :	
	Temperature: 45 ℃ to 150 ℃	1.5 ℃
- Slump cone	Verification in accordance with in-house method CON-L-009 for the dimensional requirements as specified in BS EN 12350-2: 2009 Cl. 4.1, or CS1: 2010: Vol. 1 App. A5 the following specifications:	
	Diameter of top: 100 mm	0.45 mm
	Diameter of base: 200 mm	0.50 mm
	Height: 300 mm	0.57 mm
	Thickness: not less than 1.5 mm	0.15 mm
- Tamping rod	Verification in accordance with in-house method CON-L-009 for the dimensional requirements as specified in BS EN 12350-2: 2009 Cl. 4.2, or CS1: 2010: Vol. 1 App. A6	
	Diameter of rod: 16 mm	0.04 mm
	Length of rod: 600 mm	0.57 mm

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

AQuality TestConsult Limited
東恒測試顧問有限公司
No.11 A&B, Kai Fong Garden, Ping Che Road, Fanling, New Territories, Hong Kong
香港新界粉嶺坪輋路啟芳園 11 號 A&B

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Electrical measurements - Time and frequency measuring instruments - Stop watch	Calibration for time in accordance with in-house method GEN-L-005 (Method 2) over the following range : 1 s to 3600 s	 0.6 s

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

AQuality TestConsult Limited
東恒測試顧問有限公司
No.11 A&B, Kai Fong Garden, Ping Che Road, Fanling, New Territories, Hong Kong
香港新界粉嶺坪輋路啟芳園 11 號 A&B

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Length and related measurements		
- Calliper	Calibration for length in accordance with in-house method GEN-L-002 over the following ranges :	
	External measurement: 0 mm to 300 mm	0.04 mm
	Internal measurement: 10 mm to 300 mm	0.04 mm
- Engineer's steel measuring rule	Calibration for length in accordance with in-house method GEN-L-007 over the following range :	
	0 mm to 1000 mm	0.4 mm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

AQuality TestConsult Limited
東恒測試顧問有限公司
No.11 A&B, Kai Fong Garden, Ping Che Road, Fanling, New Territories, Hong Kong
香港新界粉嶺坪輋路啟芳園 11 號 A&B

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related measurements		
- Balance	Calibration for mass in accordance with in-house method GEN-L-003 using OIML Class E2 / F1 weights from 1 g to 50 kg over the following ranges :	
	1 g to 220 g	0.0008 g
	above 220 g to 5 kg	0.06 g
	above 5 kg to 30 kg	2.9 g
	above 30 kg to 50 kg	9.4 g
- Weight	Calibration for mass in accordance with in-house method GEN-L-004 for the following weights :	
	1 g	0.0007 g
	2 g	0.0007 g
	5 g	0.0007 g
	10 g	0.0007 g
	20 g	0.0007 g
	50 g	0.0007 g
	100 g	0.0011 g
	200 g	0.0007 g
	500 g	0.08 g
	1 kg	0.08 g
	2 kg	0.08 g
	5 kg	0.08 g
	10 kg	4.16 g
	20 kg	4.16 g
- Weight (non-standard weight)	Calibration for mass in accordance with in-house method GEN-L-004 over the following ranges :	
	1 g to 200 g	0.0007 g
	above 200 g to 5 kg	0.0007 g to 0.08 g
	above 5 kg to 30 kg	0.08 g to 4.16 g
	above 30 kg to 50 kg	4.16 g to 8.21 g

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

AQuality TestConsult Limited
東恒測試顧問有限公司
No.11 A&B, Kai Fong Garden, Ping Che Road, Fanling, New Territories, Hong Kong
香港新界粉嶺坪輋路啟芳園 11 號 A&B

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Temperature measurements - Digital thermometer	Calibration for temperature using water bath as the medium in accordance with in-house method GEN-L-001 over the following range : 15 ℃ to 55 ℃	 0.4 ℃
- Temperature recorder with sensor	Calibration for temperature using water bath as the medium in accordance with in-house method GEN-L-001 over the following range : 15 ℃ to 55 ℃	 0.4 ℃

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

AQuality TestConsult Limited
東恒測試顧問有限公司
No.11 A&B, Kai Fong Garden, Ping Che Road, Fanling, New Territories, Hong Kong
香港新界粉嶺坪輋路啟芳園 11 號 A&B

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Adhesive	Pull-off test of render	In-house method TIL-P-004 (Saw cutting method or coring method)
	Pull-off test of mortar	Hong Kong Housing Authority Materials Testing Services (2020/2022) Specification Part D Cl. 2.1.15 (Method 1) In-house method TIL-P-005 (Saw cutting method or coring method)
	Pull-off test of tiles	In-house method TIL-P-001 (Saw cutting method or coring method)
	Pull-off test of tile adhesive	In-house method TIL-P-002 (Saw cutting method or coring method)

AQuality TestConsult Limited
東恒測試顧問有限公司
No.11 A&B, Kai Fong Garden, Ping Che Road, Fanling, New Territories, Hong Kong
香港新界粉嶺坪輋路啟芳園 11 號 A&B

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Admixture (Chemical analysis)	Ash content	BS 5075: Part 1: 1982 App. D2 + Amd. 4910
	Dry material content	BS 5075: Part 1: 1982 App. D1 + Amd. 4910
	Conventional dry material content	BS EN 480: Part 8 : 1997 BS EN 934: Part 1: 2008 Cl. 4 & BS EN 934: Part 2 : 2009 Cl. 4.1 & BS EN 480: Part 8 : 2012
	pH value of liquid admixtures	In-house method ADX-C-005 BS EN 934: Part 1: 2008 Cl. 4 & BS EN 934: Part 2: 2009 Cl. 4.1 & ISO 4316: 1977
	Relative density of liquid admixtures	BS 5075: Part 1: 1982 App. D3 + Amd. 4910
	Density of liquid admixtures	ISO 758: 1976
	Chloride ion content	BS 5075: Part 1: 1982 App. E + Amd. 4910
	Water-soluble chloride content	BS EN 480: Part 10: 1997 BS EN 934: Part 1: 2008 Cl. 4 & BS EN 934: Part 2: 2009 Cl. 4.1 & BS EN 480: Part 10: 2009
	Sodium oxide content	BS EN 480: Part 12: 1998 BS EN 480: Part 12: 2005 In-house method ADX-C-006
	Potassium oxide content	BS EN 480: Part 12: 1998 BS EN 480: Part 12: 2005 In-house method ADX-C-006
	Alkali content (Na_2O equivalent)	In-house method ADX-C-006 BS EN 480: Part 12: 1998 BS EN 934: Part 1: 2008 Cl. 4 & BS EN 934: Part 2: 2009 Cl. 4.1 & BS EN 480: Part 12: 2005

AQuality TestConsult Limited
東恒測試顧問有限公司
No.11 A&B, Kai Fong Garden, Ping Che Road, Fanling, New Territories, Hong Kong
香港新界粉嶺坪輋路啟芳園 11 號 A&B

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Admixture (Chemical analysis)	Conventional dry material content	BS EN 934: Part 2 : 2009+A1: 2012 Cl. 4.1 & BS EN 934: Part 1: 2008 Cl. 4 Table 1 *Test procedure for compliance testing* BS EN 480: Part 8 : 2012
	pH value of liquid admixtures	BS EN 934: Part 2 : 2009+A1: 2012 Cl. 4.1 & BS EN 934: Part 1: 2008 Cl. 4 Table 1 *Test procedure for compliance testing* ISO 4316: 1977
	Density of liquid admixtures	BS EN 934: Part 2 : 2009+A1: 2012 Cl. 4.1 & BS EN 934: Part 1: 2008 Cl. 4 Table 1 *Test procedure for compliance testing* ISO 758: 1976
	Water-soluble chloride content	BS EN 934: Part 2 : 2009+A1: 2012 Cl. 4.1 & BS EN 934: Part 1: 2008 Cl. 4 Table 1 *Test procedure for compliance testing* BS EN 480: Part 10: 2009
	Alkali content (Na_2O equivalent)	BS EN 934: Part 2 : 2009+A1: 2012 Cl. 4.1 & BS EN 934: Part 1: 2008 Cl. 4 Table 1 *Test procedure for compliance testing* BS EN 480: Part 12: 2005

AQuality TestConsult Limited
東恒測試顧問有限公司
No.11 A&B, Kai Fong Garden, Ping Che Road, Fanling, New Territories, Hong Kong
香港新界粉嶺坪輋路啟芳園 11 號 A&B

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Aggregates	Sampling	BS 812: Part 102: 1989 CS3: 2013 Section 8
	Particle size distribution	BS 812: Section 103.1: 1985 + Amd. 6003 (by sieve analysis) CS3: 2013 Section 10 + Amd. 1/2013
	Flakiness index	BS 812: Section 105.1: 1989 CS3: 2013 Section 11
	Elongation index	BS 812: Section 105.2: 1990 CS3: 2013 Section 12
	Methylene blue value	CS3: 2013 Section 13
	Los Angeles value	CS3: 2013 Section 14
	Aggregate impact value	BS 812: Part 112: 1990 + Amd. 8772 CS3: 2013 Section 15
	Ten per cent fines value	BS 812: Part 111: 1990 CS3: 2013 Section 16
	Particle density and water absorption	BS 812: Part 2: 1995 + Amd. 9195 & 10379 CS3: 2013 Section 17
	Moisture content	BS 812: Part 109 : 1990 (by oven drying method) CS3: 2013 Section 18
	Soundness	BS 812: Part 121: 1989 CS3: 2013 Section 19
	Drying shrinkage	CS3: 2013 Section 20
	Effect of organic substances by mortar method	CS3: 2013 Section 22
	Alkali silica reaction potential by ultra-accelerated mortar-bar test	CS1: 2010 Section 22
	Aggregate crushing value	BS 812: Part 110: 1990
	Bulk density, voids and bulking	BS 812: Part 2: 1995

AQuality TestConsult Limited
東恒測試顧問有限公司
No.11 A&B, Kai Fong Garden, Ping Che Road, Fanling, New Territories, Hong Kong
香港新界粉嶺坪輋路啟芳園 11 號 A&B

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Aggregates (cont'd)	Clay, silt and dust content	BS 812: Part 1: 1975 + Amd. 4875 (by decantation method)
	Compacting fraction value of aggregates for granular bed	Hong Kong Housing Authority Specification Library (2022) DRA2.T250.9 - DRA2.T280.9 General Specification for Civil Engineering Works (2006) Vol. 1 App. 5.2
	Shell content in coarse aggregates	BS 812: Part 106: 1985
Aggregates (Chemical analysis)	Water-soluble chloride salts	BS 812: Part 117: 1988 BS EN 1744: Part 1: 1998 Cl. 7 <Excluding Cl.7.2> BS EN 1744: Part 1: 2009+A1: 2012 Cl. 7 <Excluding Cl.7.2>
	Water-soluble sulphate content	BS 812 Part 118: 1988 <Excluding Cl. 4, 5.3, 5.5.2.1>
	Total sulphate content	BS 812 Part 118: 1988 <Excluding Cl. 4>
	Acid-soluble materials	BS 812 Part 119: 1985 <Excluding Cl. 4>
	Water-soluble chloride ion content	CS3: 2013 Section 21.3
	Acid-soluble chloride ion content	CS3: 2013 Section 21.4
	Acid-soluble sulphate content	CS3: 2013 Section 21.5
	Total sulphur content	CS3: 2013 Section 21.6
	Presence of humus	CS3: 2013 Section 21.7

AQuality TestConsult Limited
東恒測試顧問有限公司
No.11 A&B, Kai Fong Garden, Ping Che Road, Fanling, New Territories, Hong Kong
香港新界粉嶺坪輋路啟芳園 11 號 A&B

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Cement (Chemical analysis)	Loss-on-ignition	BS EN 196-2: 2005 Cl. 7 BS EN 197-1: 2011 Cl. 7.3 & BS EN 196-2: 2013 Cl. 4.4.1
	Sulphate content (as SO_3)	BS EN 196-2: 2005 Cl. 8 BS EN 197-1: 2011 Cl. 7.3 & BS EN 196-2: 2013 Cl. 4.4.2
	Residue insoluble in hydrochloric acid and sodium carbonate	BS EN 196-2: 2005 Cl. 9 BS EN 197-1: 2011 Cl. 7.3 & BS EN 196-2: 2013 Cl. 4.4.3
	Manganese content (Mn) Manganese oxide content (MnO) Manganese trioxide content (Mn_2O_3)	BS EN 196-2: 2005 Cl. 12 BS EN 196-2: 2013 Cl. 4.4.6
	Impure silica content (SiO_2)	BS EN 196-2: 2005 Cl. 13.2, 13.4 BS EN 196-2: 2013 Cl. 4.5.2, 4.5.4
	Pure silica content (SiO_2)	BS EN 196-2: 2005 Cl. 13.6 BS EN 196-2: 2013 Cl. 4.5.6
	Soluble silica content (SiO_2)	BS EN 196-2: 2005 Cl. 13.8 BS EN 196-2: 2013 Cl. 4.5.8
	Total silica content (SiO_2)	BS EN 196-2: 2005 Cl. 13.9 BS EN 196-2: 2013 Cl. 4.5.9
	Iron (III) oxide content	BS EN 196-2: 2005 Cl. 13.10 BS EN 196-2: 2013 Cl. 4.5.10
	Aluminium oxide content	BS EN 196-2: 2005 Cl. 13.11 BS EN 196-2: 2013 Cl. 4.5.11
	Calcium oxide content	BS EN 196-2: 2005 Cl. 13.14 (Alternative method) BS EN 196-2: 2013 Cl. 4.5.14 (Alternative method)
	Magnesium oxide content	BS EN 196-2: 2005 Cl. 13.15 (Alternative method) BS EN 196-2: 2013 Cl. 4.5.15 (Alternative method)
	Sodium oxide content	BS EN 196-2: 2005 Cl. 17 BS EN 196-2: 2013 Cl. 4.5.19

AQuality TestConsult Limited
東恒測試顧問有限公司
No.11 A&B, Kai Fong Garden, Ping Che Road, Fanling, New Territories, Hong Kong
香港新界粉嶺坪輋路啟芳園 11 號 A&B

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Cement (Chemical analysis) (cont'd)	Potassium oxide content	BS EN 196-2: 2005 Cl. 17 BS EN 196-2: 2013 Cl. 4.5.19
	Alkali content (sodium oxide equivalent)	BS EN 196-2: 2005 Cl. 17 BS EN 196-2: 2013 Cl. 4.5.19
	Chloride ion content (Cl^-)	BS EN 196-2: 2005 Cl. 14 BS EN 197-1: 2011 Cl. 7.3 & BS EN 196-2: 2013 Cl. 4.5.16
	Heat of hydration	BS 4550: Part 3: Section 3.8: 1978 (with modification)

AQuality TestConsult Limited
東恒測試顧問有限公司
No.11 A&B, Kai Fong Garden, Ping Che Road, Fanling, New Territories, Hong Kong
香港新界粉嶺坪輋路啟芳園 11 號 A&B

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Cement & Portland pulverized fuel ash cement (PPFAC)	Compressive strength of broken mortar prism in the force range 1 kN - 250 kN	BS EN 196-1: 2005 BS EN 196-1: 2016
	Density	BS EN 196-6: 1992 Annex NC BS EN 196-6: 2010 Annex NC
	Fineness	BS EN 196-6: 1992 Cl.4 (by Blaine method) BS EN 196-6: 2010 Cl.4 (by Blaine method)
	Flexural strength of mortar prisms in the force range 1 kN – 15 kN	BS EN 196-1: 2005 BS EN 196-1: 2016
	Setting times	BS EN 196-3: 2005 + A1: 2008 Cl. 6 BS EN 196-3: 2016 Cl. 6
	Soundness	BS EN 196-3: 2005 + A1: 2008 Cl. 7 BS EN 196-3: 2016 Cl. 7
	Standard consistence	BS EN 196-3: 2005 + A1: 2008 Cl. 5 BS EN 196-3: 2016 Cl. 5
Concrete	Sampling of fresh concrete	BS EN 12350-1: 2009 CS1: 2010 Section 1
	Slump of fresh concrete	BS EN 12350-2: 2009 CS1: 2010 Section 2 Part I
	Compaction factor of fresh concrete	CS1: 2010 Section 2 Part II
	Flow table test	BS EN 12350-5: 2009 CS1: 2010 Section 2 Part IV
	Stiffening time of fresh concrete	CS1: 2010 Section 3
	Density of compacted fresh concrete	CS1: 2010 Section 5
	Air content of fresh concrete	BS EN 12350-7: 2009 CS1: 2010 Section 6
	Making test cube from fresh concrete	BS EN 12390-2: 2000 + Amd. 14343 CS1: 2010 Section 7

AQuality TestConsult Limited
東恒測試顧問有限公司
No.11 A&B, Kai Fong Garden, Ping Che Road, Fanling, New Territories, Hong Kong
香港新界粉嶺坪輋路啟芳園 11 號 A&B

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Concrete (cont'd)	Making test beams from fresh concrete	CS1: 2010 Section 8
	Making test cylinders from fresh concrete	CS1: 2010 Section 9
	Curing of test specimens	BS EN 12390-2: 2000 + Amd. 14343 CS1: 2010 Section 10
	Mixing and sampling of fresh concrete	CS1: 2010 Section 11
	Compressive strength of concrete cubes in the force range 20 kN - 3000 kN	BS EN 12390-3: 2009 CS1: 2010 Section 12
	Flexural strength of concrete test beams	CS1: 2010 Section 14
	Obtaining core samples	CS1: 2010 Section 15
	Compressive strength of concrete cores in the force range 20 kN - 3000 kN	CS1: 2010 Section 15
	Density of hardened concrete	BS EN 12390-7: 2009 CS1: 2010 Section 16
	Removal of concrete cover to expose reinforcement	Hong Kong Housing Authority Materials Testing Services (2020/2022) for Maintenance & Building Materials Specification Part D Cl. 4.2.1
	Temperature monitoring of fresh concrete	In-house method CON-P-019
	Water absorption	BS 1881: Part 122: 1983 BS 1881: Part 122: 2011 + A1: 2020

AQuality TestConsult Limited
東恒測試顧問有限公司
No.11 A&B, Kai Fong Garden, Ping Che Road, Fanling, New Territories, Hong Kong
香港新界粉嶺坪輋路啟芳園 11 號 A&B

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Concrete (Chemical analysis)	Chloride content	CS1: 2010 Section 21.10.2
	Calcium oxide content	CS1: 2010 Section 21.6
	Cement content	CS1: 2010 Section 21.6.6
	Aggregate content	CS1: 2010 Section 21.6.7
	Sulphate content	CS1: 2010 Section 21.10.3

AQuality TestConsult Limited
東恒測試顧問有限公司
No.11 A&B, Kai Fong Garden, Ping Che Road, Fanling, New Territories, Hong Kong
香港新界粉嶺坪輋路啟芳園 11 號 A&B

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Concrete (diagnostic)	Carbonation test	Building Research Establishment Information Paper IP 6/81 BS EN 14630: 2006 Hong Kong Housing Authority Materials Testing Services (2020/2022) for Maintenance & Building Materials Specification Part D Cl. 4.3.1 (Method 1 & Method 2)
	Covermeter survey	BS 1881: Part 204: 1988
	Half-cell potential measurement	ASTM C876-87 ASTM C876-15
	Surface hardness measurement	BS EN 12504-2: 2012 BS EN 12504-2: 2021
	Ultrasonic pulse velocity measurement	BS EN 12504-4: 2004 (direct & semi-direct transmission) BS EN 12504-4: 2021 (direct & semi-direct transmission)
Curtain walls & cladding (spiders)	Proof load test of spiders in the force range 1 kN – 120 kN	Buildings Department Code of Practice for the Structural Use of Steel (2011) Cl. 16.2.1

AQuality TestConsult Limited
東恒測試顧問有限公司
No.11 A&B, Kai Fong Garden, Ping Che Road, Fanling, New Territories, Hong Kong
香港新界粉嶺坪輋路啟芳園 11 號 A&B

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Grout	Compressive strength of grout cubes in the force range 20 kN to 3000 kN	BS EN 12390-3: 2009 CS1: 2010 Section 12
	Flow of grout for pre-placed aggregate concrete (flow cone method)	ASTM C939-02 ASTM C939-10
	Expansion and bleeding of freshly mixed grouts for preplaced-aggregates concrete	ASTM C940-98a ASTM C940-10a
	Bleeding and free expansion	General Specification for Civil Engineering Works (2006) Vol. 2 Cl. 17.60
	Bleeding and volume change (wick-induced test)	BS EN 445: 2007 Cl. 4.5 General Specification for Civil Engineering Works (2020) Vol. 2 Cl. 17.60
	Fluidity test (cone method)	BS EN 445: 2007 Cl. 4.3.1 General Specification for Civil Engineering Works (2020) Vol. 2 Cl. 17.66
Ground Granulated Blastfurnace Slag (GGBS)	Activity index	BS EN 196-1: 2005 BS EN 196-1: 2016 in conjunction with the following specification: BS EN 15167-1: 2006 Cl. 5.3.2.3
	Density	BS EN 196-6: 2010 Annex NC in conjunction with the following specification: BS EN 15167-1: 2006 Cl. 5.5g
	Fineness	BS EN 196-6: 2010 (by Blaine method) in conjunction with the following specification: BS EN 15167-1: 2006 Cl. 5.3.1
	Initial setting time	BS EN 196-3: 2005 + A1: 2008 BS EN 196-3: 2016 in conjunction with the following specification: BS EN 15167-1: 2006 Cl. 5.3.2.2
	Moisture content	BS EN 15167-1: 2006 Annex A

AQuality TestConsult Limited
東恒測試顧問有限公司
No.11 A&B, Kai Fong Garden, Ping Che Road, Fanling, New Territories, Hong Kong
香港新界粉嶺坪輋路啟芳園 11 號 A&B

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Ground Granulated Blastfurnace Slag (GGBS) (Chemical analysis)	Loss-on-ignition	BS EN 196-2: 2005 Cl. 7 BS EN 15167-1: 2006 (Amd16763) Cl. 5.2 & BS EN 196-2: 2013 Cl. 4.4.1
	Sulphate content (as SO_3)	BS EN 196-2: 2005 Cl. 8 BS EN 15167-1:2006 (Amd16763) Cl. 5.2 & BS EN 196-2: 2013 Cl. 4.4.2
	Insoluble residue in hydrochloric acid and sodium carbonate	BS EN 196-2: 2005 Cl. 9 BS EN 196-2: 2013 Cl. 4.4.3
	Manganese content (Mn) Manganese oxide content (MnO) Manganese trioxide content (Mn_2O_3)	BS EN 196-2: 2005 Cl. 12 BS EN 15167-1: 2006 (Amd16763) Cl. 5.5 & BS EN 196-2: 2013 Cl. 4.4.6
	Impure silica content (SiO_2)	BS EN 196-2: 2005 Cl. 13.2, 13.4 BS EN 196-2: 2013 Cl. 4.5.2, 4.5.4
	Pure silica content (SiO_2)	BS EN 196-2: 2005 Cl. 13.6 BS EN 196-2: 2013 Cl. 4.5.6
	Soluble silica content (SiO_2)	BS EN 196-2: 2005 Cl. 13.8 BS EN 196-2: 2013 Cl. 4.5.8
	Total silica content (SiO_2)	BS EN 196-2: 2005 Cl. 13.9 BS EN 15167-1: 2006 (Amd16763) Cl. 5.5 & BS EN 196-2: 2013 Cl. 4.5.9
	Iron (III) oxide content	BS EN 196-2: 2005 Cl. 13.10 BS EN 196-2: 2013 Cl. 4.5.10
	Aluminium oxide content	BS EN 196-2: 2005 Cl. 13.11 BS EN 15167-1: 2006 (Amd16763) Cl. 5.5 & BS EN 196-2: 2013 Cl. 4.5.11
	Calcium oxide content	BS EN 196-2: 2005 Cl. 13.14 (Alternative method) BS EN 15167-1: 2006 (Amd16763) Cl. 5.5 & BS EN 196-2: 2013 Cl. 4.5.14 (Alternative method)
	Magnesium oxide content	BS EN 196-2: 2005 Cl. 13.15 (Alternative method) BS EN 15167-1: 2006 (Amd16763) Cl. 5.2 & BS EN 196-2: 2013 Cl. 4.5.15 (Alternative method)

AQuality TestConsult Limited
東恒測試顧問有限公司
No.11 A&B, Kai Fong Garden, Ping Che Road, Fanling, New Territories, Hong Kong
香港新界粉嶺坪輋路啟芳園 11 號 A&B

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Ground Granulated Blastfurnace Slag (GGBS) (Chemical analysis) (cont'd)	Sodium oxide content	BS EN 196-2: 2005 Cl. 17 BS EN 196-2: 2013 Cl. 4.5.19
	Potassium oxide content	BS EN 196-2: 2005 Cl. 17 BS EN 196-2: 2013 Cl. 4.5.19
	Alkali content (sodium oxide equivalent)	BS EN 196-2: 2005 Cl. 17 (Reference method) BS EN 15167-1: 2006 (Amd16763) Cl. 5.5 & BS EN 196-2: 2013 Cl. 4.5.19 (Reference method)
	Chloride ion content (Cl^-)	BS EN 196-2: 2005 Cl. 14 BS EN 15167-1: 2006 (Amd16763) Cl. 5.2 & BS EN 196-2: 2013 Cl. 4.5.16
	Sulphide content	BS EN 196-2: 2005 Cl. 11 BS EN 15167-1: 2006 (Amd16763) Cl. 5.2 & BS EN 196-2: 2013 Cl. 4.4.5
Groundwater (Chemical analysis)	Sulphate content (as SO_3)	GEOSPEC 3: 2001 Test 9.3 GEOSPEC 3: 2017 Test 9.3
	pH value	GEOSPEC 3: 2001 Test 9.5 GEOSPEC 3: 2017 Test 9.5

AQuality TestConsult Limited
東恒測試顧問有限公司
No.11 A&B, Kai Fong Garden, Ping Che Road, Fanling, New Territories, Hong Kong
香港新界粉嶺坪輋路啟芳園 11 號 A&B

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Manhole covers / steps	Loading test of manhole covers and gully gratings	BS EN 124-1: 2015 Cl. 8
	Mass determination and loading test of manhole covers, gully gratings and kerb overflow weirs	Hong Kong Housing Authority Specification Library (2022) DRA2.M650.9 & DRA2.T430.9 to DRA2.T490.9
	Mass determination and resistance to fracture of manhole covers, gully gratings and kerb overflow weirs	General Specification for Civil Engineering Works (2006) Vol. 1 Cl. 5.95 & App. 5.3 General Specification for Civil Engineering Works (2020) Vol. 1 Cl. 5.95 & App. 5.3
Metallic materials	Bend test of metallic materials	BS EN ISO 7438: 2016 excluding Cl. 4.3 & 4.4 in conjunction with the following specification(s): BS EN 485-1: 2008 Cl 6.4 & BS EN 485-2: 2008 Cl. 4.1
	Bend test of reinforcing bar, wire rods, welded fabric, cold reduced wire for reinforcement of concrete	BS EN ISO 15630-1: 2002 Cl. 6 BS EN ISO 15630-1: 2010 Cl. 6 BS EN ISO 15630-1: 2019 Cl. 6
	Bend test of welded fabric for reinforcement of concrete	BS EN ISO 15630-2: 2010 Cl. 6 BS EN ISO 15630-2: 2019 Cl. 6
	Bond property of steel reinforcing bars by surface geometry measurement	BS EN ISO 15630-1: 2002 Cl. 10, 11.2 & 11.3 BS EN ISO 15630-1: 2010 Cl. 10, 11.2 & 11.3 BS EN ISO 15630-1: 2019 Cl. 10, 11.2 & 11.3 CS2: 2012 (Rev. 5) Cl. 6.1 & 6.7 excluding Cl. 6.7.3 in conjunction with the following specification(s): BS 4449: 2005 + A2: 2009 + A3: 2016 Cl. 7.4 & 9

AQuality TestConsult Limited
東恒測試顧問有限公司
No.11 A&B, Kai Fong Garden, Ping Che Road, Fanling, New Territories, Hong Kong
香港新界粉嶺坪輋路啟芳園 11 號 A&B

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Metallic materials (cont'd)	Charpy V-notch impact test	BS EN 10045-1: 1990 BS EN ISO 148-1: 2016 in conjunction with the following specification(s): BS EN 10021: 2006 Cl. 8.3.4.2 BS EN 10025-1: 2004 Cl.10.2.2 BS EN 10025-2: 2004 Cl.10.2 & Table 9 BS EN 10025-2: 2019 Cl. 10.2.2 & Table 8 BS EN 10025-3: 2004 Cl.10.2, Table 6 & 7 BS EN 10025-3: 2019 Cl. 10.2.2, Table 5 & 6 BS EN 10025-4: 2004 Cl.10.2, Table 6 & 7 BS EN 10025-4: 2019 Cl.10.2.2, Table 5 & 6 BS EN 10025-5: 2004 Cl.10.2 & Table 5 BS EN 10025-5: 2019 Cl. 10.2.2 & Table 5 BS EN 10025-6: 2004 + A1: 2009 Cl. 10.2, Table 6 & 7 BS EN 10025-6: 2019 Cl. 10.2.2 & Table 5 & 6 BS EN 10088-2: 2005 Cl. 7.4.4, Table 8, 10 & 11 BS EN 10088-2: 2014 Cl. 7.4.4, Table 7, 8, 10 BS EN 10088-3: 2005 Cl. 7.4.4, Table 9 to 12 & 14 - 17 BS EN 10088-3: 2014 Cl. 7.4.4, Table 8, 9, 11 to 14, 16 & 17 BS EN 10210-1: 2006 Cl. 6.6.2, 9.2.3, Table A.3 & B.3 BS EN 10219-1: 2006 Cl. 6.7.2, 9.2.3, Table A.3, B.4 & B.5 BS EN 1563: 2018 Cl. 9.2 & Table 2 BS EN ISO 898-1: 2013 Cl. 9.14.5 & Table 3 ISO 898-1: 2009 Cl. 9.14.5 & Table 3
	Mass per metre of cold reduced steel wires	BS 4482: 2005 Cl. 7.3, 9 & BS EN ISO 15630-1: 2002 Cl. 12
	Mass per meter of steel reinforcing bars, wire rods and wire	BS EN ISO 15630-1: 2002 Cl. 12 BS EN ISO 15630-1: 2010 Cl. 12 BS EN ISO 15630-1: 2019 Cl. 12 CS2: 2012 (Rev. 5) Cl. 6.1 & 6.2 in conjunction with the following specification(s): BS 4449: 2005 + A2: 2009 + A3: 2016 Cl. 7.2.2, 7.3 & 9
	Mass per metre square, pitch and dimension of steel fabrics for reinforcement of concrete	BS 4483: 2005 Cl. 7.3, 8.1.3.2 with BS 4449: 2005 Cl. 7.3 & BS EN ISO 15630-1: 2002 Cl. 12

AQuality TestConsult Limited
東恒測試顧問有限公司
No.11 A&B, Kai Fong Garden, Ping Che Road, Fanling, New Territories, Hong Kong
香港新界粉嶺坪輋路啟芳園 11 號 A&B

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Metallic materials (cont'd)	Proof load test of unmachined (finished) bolts screws and studs in the force range 3 kN – 2000 kN	BS EN ISO 898-1: 2009 Cl. 9.6 BS EN ISO 898-1: 2013 Cl. 9.6 in conjunction with the following specification(s): BS 3692: 2001 Cl. 11 & 13 BS 3692: 2014 Cl. 14 & 21 BS 4190: 2001 Cl. 15 & 20 BS 4190: 2014 Cl. 15 & 21
	Proof load test of steel nuts in the force range 3 kN – 2000 kN	BS 3692: 2001 Annex C.1 BS 3692: 2014 Annex C.1 BS 4190: 2001 Annex A.1 BS 4190: 2014 Annex A.1 BS EN ISO 898-2: 2012 Cl. 9.1
	Proof load test of stainless steel nut in the force range 3 kN – 2000 kN	BS EN ISO 898-2: 2012 Cl. 9.1 BS EN ISO 898-2: 2022 Cl. 10.1 in conjunction with the following specification(s): BS EN ISO 3506-2: 2009 Cl. 6 BS EN ISO 3506-2: 2020 Cl. 10.1
	Rebend test of reinforcing bars, wire rod, welded fabric, cold reduced wire for reinforcement of concrete	BS EN ISO 15630-1: 2002 Cl. 7 BS EN ISO 15630-1: 2010 Cl. 7 BS EN ISO 15630-1: 2019 Cl. 7 CS2: 2012 (Rev. 5) Cl. 6.1 & 6.5 in conjunction with the following specification(s): BS 4449: 2005 + A2: 2009 + A3: 2016 Cl. 7.2.5 BS 4482: 2005 Cl. 7.2.4 & 9 BS 4483: 2005 Cl. 7.2.5 & 8.1.3.2

AQuality TestConsult Limited
東恒測試顧問有限公司
No.11 A&B, Kai Fong Garden, Ping Che Road, Fanling, New Territories, Hong Kong
香港新界粉嶺坪輋路啟芳園 11 號 A&B

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Metallic materials (cont'd)	Tensile test of unmachined (finished) bolts, screws and studs in the force range 3 kN – 2000 kN	BS EN ISO 6892-1: 2009 Cl. 10.4 Method B BS EN ISO 6892-1: 2016 Cl. 10.3.3 Method B BS EN ISO 6892-1: 2019 Cl. 10.3.3 Method B in conjunction with the following specification(s): BS 3692: 2001 Cl. 11 & 13 BS 3692: 2014 Cl. 14 & 21 BS 4190: 2001 Cl. 15 & 20 BS 4190: 2014 Cl. 15 & 21 BS EN ISO 898-1: 2009 Cl. 9.2 BS EN ISO 898-1: 2013 Cl. 9.2
	Tensile test of machined bolts, screws and studs in the force range 3 kN – 2000 kN	BS EN ISO 6892-1: 2009 Cl. 10.4 Method B BS EN ISO 6892-1: 2016 Cl. 10.3.3 Method B BS EN ISO 6892-1: 2019 Cl. 10.3.3 Method B in conjunction with the following specification(s): BS 3692: 2001 Cl. 11 & 13 BS 3692: 2014 Cl. 14 & 21 BS 4190: 2001 Cl. 15 & 20 BS 4190: 2014 Cl. 15 BS EN ISO 898-1: 2009 Cl. 9.7 BS EN ISO 898-1: 2013 Cl. 9.7

AQuality TestConsult Limited
東恒測試顧問有限公司
No.11 A&B, Kai Fong Garden, Ping Che Road, Fanling, New Territories, Hong Kong
香港新界粉嶺坪輋路啟芳園 11 號 A&B

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Metallic materials (cont'd)	Tensile test of reinforcing bars, wire rod, welded fabric, cold reduced wire for reinforcement of concrete in the force range 3 kN - 2000 kN	BS EN 10002-1: 2001 BS EN ISO 6892-1: 2009 Cl. 10.4 Method B BS EN ISO 6892-1: 2016 Cl. 10.3.3 Method B BS EN ISO 6892-1: 2019 Cl. 10.3.3 Method B in conjunction with the following specification(s): BS 4482: 2005 Cl. 8.1.3.1 & 9 BS 4483: 2005 Cl. 7.2.2 & 7.2.3, 8.1.3.1 & 9 BS 4449: 2005 + A2: 2009 + A3: 2016 Cl. 7.2.2, 7.2.3, 8.1.3.1 & 9 BS EN ISO 15630-1: 2002 Cl. 5 BS EN ISO 15630-1: 2010 Cl. 5 BS EN ISO 15630-1: 2019 Cl. 5 BS EN ISO 15630-2: 2010 Cl. 5 BS EN ISO 15630-2: 2019 Cl. 5 CS2: 2012 (Rev. 5) Cl. 6.1 & 6.4
	Tensile test & slip/permanent elongation test of mechanical coupler for reinforcing bar in the force range 3 kN – 2000 kN	In-house method STL-P-008 in conjunction with the following specification(s): BS 8110: Part 1: 1997 Cl. 3.12.8.16.2 General Specification for Civil Engineering Works (2006) Vol. 2 Cl. 15.35 Buildings Department Code of Practice for Structural Use of Concrete (2013) Cl. 3.2.8.3

AQuality TestConsult Limited
東恒測試顧問有限公司
No.11 A&B, Kai Fong Garden, Ping Che Road, Fanling, New Territories, Hong Kong
香港新界粉嶺坪輋路啟芳園 11 號 A&B

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Metallic materials (cont'd)	Tensile test of metallic materials in the force range 3 kN – 2000 kN	BS EN 10002-1: 2001 BS EN ISO 6892-1: 2009 Cl. 10.4 Method B BS EN ISO 6892-1: 2016 Cl. 10.3.3 Method B BS EN ISO 6892-1: 2019 Cl. 10.3.3 Method B in conjunction with the following specification(s): BS EN 485-1: 2008 Cl. 6.3 & BS EN 485-2: 2008 Cl. 4.1 BS EN 1561: 1997 Cl. 9.1 & Table 1 BS EN 1561: 2011 Cl. 9.1 & Table 1 BS EN 1562: 1997 Cl. 9.1, Table 1 & 2 BS EN 1562: 2019 Cl. 9.1, Table 1, 2 & 3 BS EN 1563: 1997 Cl. 9.1, Table 1 & 3 BS EN 1563: 2018 Cl. 9.1, Table 1 & 3 BS EN 10025-1: 2004 Cl. 9.2.3.2 & 10.2.1 BS EN 10025-2: 2004 Cl. 10.2 & Table 7 & 8 BS EN 10025-2: 2019 Cl. 10.2.1 & Table 6 & 7 BS EN 10025-3: 2004 Cl. 10.2 & Table 5 BS EN 10025-3: 2019 Cl. 10.2.1 & Table 4 BS EN 10025-4: 2004 Cl. 10.2 & Table 5 BS EN 10025-4: 2019 Cl. 10.2.1 & Table 4 BS EN 10025-5: 2004 Cl. 10.2 & Table 4 BS EN 10025-5: 2019 Cl. 10.2.1 & Table 4 BS EN 10025-6: 2004 + A1: 2009 Cl. 10.2 & Table 5 BS EN 10088-2: 2005 Cl. 7.4.2, Table 7 - 17 & 19 - 25 BS EN 10088-2: 2014 Cl. 7.4.2, Table 7 - 18 BS EN 10088-3: 2005 Cl. 7.4.2, Table 8 - 17 BS EN 10088-3: 2014 Cl. 7.4.2, Table 8 - 17 & 19 - 25 BS EN 10164: 2004 Cl. 5.1 & 8.1 BS EN 10164: 2018 Cl. 6 & 9.1 BS EN 10210-1: 2006 Cl. 6.6.1, 9.2.1 & 9.2.2 BS EN 10219-1: 2006 Cl. 6.7.1, 9.2.1 & 9.2.2 BS EN 10248-1: 1996 Cl. 8.4.3 & 8.4.4 BS EN 10255: 2004 + A1: 2007 Cl. 9.3 & Table 1

AQuality TestConsult Limited
東恒測試顧問有限公司
No.11 A&B, Kai Fong Garden, Ping Che Road, Fanling, New Territories, Hong Kong
香港新界粉嶺坪輋路啟芳園 11 號 A&B

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Metallic materials (cont'd)	Vickers hardness test of metal in scale range of HV5, HV10 and HV30	BS 427: 1990 Section 2 BS EN 23878: 1993 BS EN ISO 6507-1: 2005 BS EN ISO 6507-1: 2018 in conjunction with the following specification(s): BS 3692: 2001 Cl C.4.3 & Table 9 BS 3692: 2014 Cl C.4.4 & Table 10 BS 4190: 2001 Cl A.2.4 & Table 14 BS 4190: 2014 Cl A.4.4 & Table 14 BS EN 10088-2: 2005 Cl 7.4.5 & Table 8 BS EN 10088-2: 2014 Cl 7.4.5 & Table 10 BS EN ISO 898-1: 1999 Cl 8.4.1 & Table 3 BS EN ISO 898-1: 2009 Cl 9.9.3(a) & Table 3 BS EN ISO 898-1: 2013 Cl 9.9.3(a) & Table 3 BS EN ISO 898-2: 2012 Cl 9.2.2 & Table 6 BS EN ISO 898-2: 2022 Cl. 10.2.3 & Table 7 & 8 BS EN ISO 3506-1: 2009 Cl 7.2.7 & Table 3 BS EN ISO 3506-1: 2020 Cl. 9.6 & Table 3
	Weld shear force test of welded fabrics for reinforcement of concrete in the force range 3 kN – 2000 kN	BS EN ISO 15630-2: 2010 Cl. 7 BS EN ISO 15630-2: 2019 Cl. 7.1 in conjunction with the following specification(s): BS 4483: 2005 Cl. 7.2.2 & 7.2.4

AQuality TestConsult Limited
東恒測試顧問有限公司
No.11 A&B, Kai Fong Garden, Ping Che Road, Fanling, New Territories, Hong Kong
香港新界粉嶺坪輋路啟芳園 11 號 A&B

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Metallic materials (chemical analysis)	Elemental Composition :-	
- Carbon steel 250, 500 B, 500C	- Carbon - Chromium - Copper - Molybdenum - Manganese - Nitrogen - Nickel - Sulphur - Phosphorus - Vanadium	In-house method STL-C-001 (Spark OES)
	Carbon equivalent value	CS2:2012 Cl. 1.5.1
- Stainless steel 316, 316L, 316H	- Carbon - Chromium - Molybdenum - Manganese - Nitrogen - Nickel - Sulphur - Phosphorus - Silicon	In-house method STL-C-001 (Spark OES)
Mortar	Compressive strength of mortar cubes in the force range 20 kN to 3000 kN	BS EN 12390: Part 3: 2009 CS1: 2010 Section 12

AQuality TestConsult Limited
東恒測試顧問有限公司
No.11 A&B, Kai Fong Garden, Ping Che Road, Fanling, New Territories, Hong Kong
香港新界粉嶺坪輋路啟芳園 11 號 A&B

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Pulverized fuel ash (PFA)	Activity index	BS EN 196-1: 2005 BS EN 196-1: 2016 in conjunction with the following specification(s): BS EN 450-1: 2005 + A1: 2007 Cl. 5.3.2 BS EN 450-1: 2012 Cl. 5.3.2
	Particle density	BS EN 196-6: 1992 Annex NC BS EN 196-6: 2010 Annex NC BS EN 1097-7: 2008 in conjunction with the following specification(s): BS 3892: Part 1: 1997 Cl. 7 BS EN 450-1: 2005 + A1: 2007 Cl. 5.3.4 BS EN 450-1: 2012 Cl. 5.3.4
	Fineness	BS 3892: Part 1: 1997 Annex D BS EN 451-2: 1995 BS EN 451-2: 2017
	Initial setting time	BS EN 196-3: 1995 BS EN 196-3: 2005 + A1: 2008 BS EN 196-3: 2016 in conjunction with the following specification(s): BS 3892: Part 1: 1997 Cl. 10 BS EN 450-1: 2005 + A1: 2007 Cl. 5.3.5 BS EN 450-1: 2012 Cl. 5.3.5
	Moisture content	BS 3892: Part 1: 1997 Annex C
	Soundness	BS EN 196-3: 1995 BS EN 196-3: 2005 + A1: 2008 BS EN 196-3: 2016 in conjunction with the following specification(s): BS 3892: Part 1: 1997 Cl. 11 BS EN 450-1: 2005 + A1: 2007 Cl. 5.3.3 BS EN 450-1: 2012 Cl. 5.3.5
	Strength factor	BS 3892: Part 1: 1997 Annex F
	Water requirement	BS 3892: Part 1: 1997 Annex E BS EN 450-1: 2005 + A1: 2007 Annex B BS EN 450-1: 2012 Annex B

AQuality TestConsult Limited
東恒測試顧問有限公司
No.11 A&B, Kai Fong Garden, Ping Che Road, Fanling, New Territories, Hong Kong
香港新界粉嶺坪輋路啟芳園 11 號 A&B

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Pulverized fuel ash (Chemical analysis)	Loss-on-ignition	BS EN 196-2: 2013 Cl. 4.4.1 (using an ignition time of 1 hour) BS EN 450-1: 2012 Cl. 5.2.2 & BS EN 196-2: 2005 Cl. 7 (using an ignition time of 1 hour)
	Sulphate content (as SO_3)	BS EN 196-2: 2013 Cl. 4.4.2 BS EN 450-1: 2012 Cl. 5.2.4 & BS EN 196-2: 2005 Cl. 8
	Manganese content (Mn) Manganese oxide content (MnO) Manganese trioxide content (Mn_2O_3)	BS EN 196-2: 2005 Cl. 12 BS EN 196-2: 2013 Cl. 4.4.6
	Impure silica content (SiO_2)	BS EN 196-2: 2005 Cl. 13.2, 13.4 BS EN 196-2: 2013 Cl. 4.5.2, 4.5.4
	Pure silica content (SiO_2)	BS EN 196-2: 2005 Cl. 13.6 BS EN 196-2: 2013 Cl. 4.5.6
	Soluble silica content (SiO_2)	BS EN 196-2: 2005 Cl. 13.8 BS EN 196-2: 2013 Cl. 4.5.8
	Total silica content (SiO_2)	BS EN 196-2: 2013 Cl. 4.5.9 BS EN 450-1: 2012 Cl. 5.2.8 & BS EN 196-2: 2005 Cl. 13.9
	Iron (III) oxide content	BS EN 196-2: 2013 Cl. 4.5.10 BS EN 450-1: 2012 Cl. 5.2.8 & BS EN 196-2: 2005 Cl. 13.10
	Aluminium oxide content	BS EN 196-2: 2013 Cl. 4.5.11 BS EN 450-1: 2012 Cl. 5.2.8 & BS EN 196-2: 2005 Cl. 13.11
	Calcium oxide content	BS EN 196-2: 2005 Cl. 13.14 (Alternative method) BS EN 196-2: 2013 Cl. 4.5.14 (Alternative method)
	Magnesium oxide content	BS EN 196-2: 2013 Cl. 4.5.15 (Alternative method) BS EN 450-1: 2012 Cl. 5.2.10 & BS EN 196-2: 2005 Cl. 13.15 (Alternative method)

AQuality TestConsult Limited
東恒測試顧問有限公司
No.11 A&B, Kai Fong Garden, Ping Che Road, Fanling, New Territories, Hong Kong
香港新界粉嶺坪輋路啟芳園 11 號 A&B

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Pulverized fuel ash (Chemical analysis) (cont'd)	Sodium oxide content	BS EN 196-2: 2005 Cl. 17 BS EN 196-2: 2013 Cl. 4.5.19
	Potassium oxide content	BS EN 196-2: 2005 Cl. 17 BS EN 196-2: 2013 Cl. 4.5.19
	Alkali content (sodium oxide equivalent)	BS EN 196-2: 2013 Cl. 4.5.19 BS EN 450-1: 2012 Cl. 5.2.9 & BS EN 196-2: 2005 Cl. 17
	Chloride ion content (Cl^-)	BS EN 196-2: 2013 Cl. 4.5.16 BS EN 450-1: 2012 Cl. 5.2.3 & BS EN 196-2: 2005 Cl. 14

AQuality TestConsult Limited
東恒測試顧問有限公司
No.11 A&B, Kai Fong Garden, Ping Che Road, Fanling, New Territories, Hong Kong
香港新界粉嶺坪輋路啟芳園 11 號 A&B

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Silica fume (chemical analysis)	Loss-on-ignition	BS EN 196-2: 2005 Cl.7 (using an ignition time of 1 hour) BS EN 13263-1: 2005 + A1: 2009 Cl. 5.2.7 & BS EN 196-2: 2013 Cl. 4.4.1 (using an ignition time of 1 hour)
	Sulphate content (as SO_3)	BS EN 196-2: 2005 Cl. 8 BS EN 13263-1: 2005 + A1: 2009 Cl. 5.2.4 & BS EN 196-2: 2013 Cl. 4.4.2
	Silicon dioxide content (SiO_2)	BS EN 196-2: 2005 Cl. 13.2, 13.3 & Cl. 13.6 BS EN 13263-1: 2005 + A1: 2009 Cl. 5.2.1 & BS EN 196-2: 2013 Cl. 4.5.2, 4.5.3 & Cl. 4.5.6
	Sodium oxide content	BS EN 196-2: 2005 Cl. 17 BS EN 196-2: 2013 Cl. 4.5.19
	Potassium oxide content	BS EN 196-2: 2005 Cl. 17 BS EN 196-2: 2013 Cl. 4.5.19
	Alkali content (sodium oxide equivalent)	BS EN 196-2: 2005 Cl.17 BS EN 13263-1: 2005 + A1: 2009 Cl. 5.2.5 & BS EN 196-2: 2013 Cl. 4.5.19
	Chloride ion content (Cl^-)	BS EN 196-2: 2005 Cl.14 BS EN 13263-1: 2005 + A1: 2009 Cl. 5.2.6 & BS EN 196-2: 2013 Cl. 4.5.16
	Free calcium oxide content	BS EN 451-1: 2003 BS EN 451-1: 2017

AQuality TestConsult Limited
東恒測試顧問有限公司
No.11 A&B, Kai Fong Garden, Ping Che Road, Fanling, New Territories, Hong Kong
香港新界粉嶺坪輋路啟芳園 11 號 A&B

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Road surfaces	Texture depth of carriageways (sand patch method)	General Specification for Civil Engineering Works (2006) Vol. 1 App. 10.1 General Specification for Civil Engineering Works (2020) Vol. 1 App. 10.1 Hong Kong Housing Authority Specification Library (2008) EXT 2.T910.5 to T1010.5 Hong Kong Housing Authority Specification Library (2012) EXT 2.T910.5 to T1010.5
	Surface regularity of carriageways	General Specification for Civil Engineering Works (2006) Vol. 1 Cl. 9.42 to 9.43, Cl. 10.55 to 10.56 General Specification for Civil Engineering Works (2020) Vol. 1 Cl. 9.42 to 9.43, Cl. 10.55 to 10.56 Hong Kong Housing Authority Specification Library (2008) EXT 2.T810.5 to T850.5 Hong Kong Housing Authority Specification Library (2012) EXT 2.T810.6 to T850.6
Soil (Chemical analysis)	Organic matter content	GEOSPEC 3: 2001 Test 9.1 GEOSPEC 3: 2017 Test 9.1
	Loss-on-ignition	GEOSPEC 3: 2001 Test 9.2 GEOSPEC 3: 2017 Test 9.2
	Total sulphate content (as SO_3)	GEOSPEC 3: 2001 Test 9.3 GEOSPEC 3: 2017 Test 9.3
	Water-soluble sulphate content (as SO_3)	GEOSPEC 3: 2001 Test 9.3 GEOSPEC 3: 2017 Test 9.3
	Water-soluble chloride content	GEOSPEC 3: 2001 Test 9.4 GEOSPEC 3: 2017 Test 9.4
	pH value	GEOSPEC 3: 2001 Test 9.5 GEOSPEC 3: 2017 Test 9.5
	Carbonate content (as CO_2)	BS 1377: Part 3: 1990 (Amd 9028) Cl. 6 ***<excluding cl. 6.4>*** BS 1377: Part 3: 2018 + A1: 2021 Cl. 8.3

AQuality TestConsult Limited
東恒測試顧問有限公司
No.11 A&B, Kai Fong Garden, Ping Che Road, Fanling, New Territories, Hong Kong
香港新界粉嶺坪輋路啟芳園 11 號 A&B

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Soil (Phase I)	Moisture content by oven-drying at 45°C ± 5°C	GEOSPEC 3: 2001 Test 5.1 GEOSPEC 3: 2017 Test 5.1
	Moisture content by oven-drying at 105°C ± 5°C	GEOSPEC 3: 2001 Test 5.2 GEOSPEC 3: 2017 Test 5.2
	Comparative test for the determination of moisture content by oven drying	GEOSPEC 3: 2001 Test 5.3 GEOSPEC 3: 2017 Test 5.3
	Liquid limit, plastic limit, and plasticity index	GEOSPEC 3: 2001 Test 6.1 GEOSPEC 3: 2017 Test 6.1
	Liquidity index	GEOSPEC 3: 2001 Test 6.2 GEOSPEC 3: 2017 Test 6.2
	Particle size distribution by wet sieving (with dispersant)	GEOSPEC 3: 2001 Test 8.1 GEOSPEC 3: 2017 Test 8.1
	Particle size distribution by wet sieving (without dispersant)	GEOSPEC 3: 2001 Test 8.2 GEOSPEC 3: 2017 Test 8.2
	Particle size distribution by hydrometer (with dispersant)	GEOSPEC 3: 2001 Test 8.5 GEOSPEC 3: 2017 Test 8.5
	Particle size distribution by hydrometer (without dispersant)	GEOSPEC 3: 2001 Test 8.6 GEOSPEC 3: 2017 Test 8.6
	Construction of a continuous particle size distribution curve from the results of wet-sieving and sedimentation tests	GEOSPEC 3: 2001 Test 8.7 GEOSPEC 3: 2017 Test 8.7
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using 1000 cc mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.1 GEOSPEC 3: 2017 Test 10.1
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using 1000 cc mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.2 GEOSPEC 3: 2017 Test 10.2

AQuality TestConsult Limited
東恒測試顧問有限公司
No.11 A&B, Kai Fong Garden, Ping Che Road, Fanling, New Territories, Hong Kong
香港新界粉嶺坪輋路啟芳園 11 號 A&B

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Soil (Phase I) (cont'd)	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using CBR mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.3 GEOSPEC 3: 2017 Test 10.3
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using CBR mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.4 GEOSPEC 3: 2017 Test 10.4
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using 1000 cc mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.5 GEOSPEC 3: 2017 Test 10.5
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using 1000 cc mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.6 GEOSPEC 3: 2017 Test 10.6
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using CBR mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.7 GEOSPEC 3: 2017 Test 10.7
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using CBR mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.8 GEOSPEC 3: 2017 Test 10.8
	In-situ bulk density and in-situ dry density of soils by the sand replacement method suitable for fine and medium grained soils (with small pouring cylinder)	GEOSPEC 3: 2001 Test 11.1 GEOSPEC 3: 2017 Test 11.1
	In-situ bulk density and in-situ dry density of soils by the sand replacement method suitable for fine, medium and coarse grained soils (with large pouring cylinder)	GEOSPEC 3: 2001 Test 11.2 GEOSPEC 3: 2017 Test 11.2
	Relative compaction of fill material	GEOSPEC 3: 2001 Test 11.4 GEOSPEC 3: 2017 Test 11.4

AQuality TestConsult Limited
東恒測試顧問有限公司
No.11 A&B, Kai Fong Garden, Ping Che Road, Fanling, New Territories, Hong Kong
香港新界粉嶺坪輋路啟芳園 11 號 A&B

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Structural fixings	Tensile proof load test of anchors, dowel bars & channel inserts by incremental loading in the force range 2 kN - 600 kN	BS 5080: Part 1:1993, Cl. 6, 7.1.1 &7.1.3 with modification
	Tensile proof load test of drilled-in anchors used for cantilevered structure/hanger/curtain wall remedial works by incremental loading in the force range 2 kN – 600 kN	Buildings Department PNAP APP-169 (Oct 2023) App. A
	Tensile proof load test of drilled-in anchors used for works other than cantilevered structure/ hanger/curtain wall remedial works in the force range 2 kN – 600 kN	Buildings Department PNAP APP-169 (Oct 2023) App. B
	Tensile proof load test for cementitious or polymer based grouted bolts or dowels or reinforcing bars works or/and steel T-bolts with cast-in channels in the force range 2 kN – 600 kN	Buildings Department PNAP APP-169 (Oct 2023) App. C
	Shear test of anchors or dowel bars by incremental loading in the force range 1 kN – 200 kN	BS 5080: Part 2: 1986 + Amd. 7602 Cl. 4, 7.1, 7.2.1 & 7.2.3
	Shear proof load test of drilled-in anchors used for cantilevered structure/hanger/curtain wall remedial works by incremental loading in the force range 2 kN – 200 kN	Buildings Department PNAP APP-169 (Oct 2023) App. A
	Shear proof load test of drilled-in anchors used for works other than cantilevered structure/ hanger/curtain wall remedial works in the force range 2 kN – 200 kN	Buildings Department PNAP APP-169 (Oct 2023) App. B
	Shear proof load test for cementitious or polymer based grouted bolts or dowels bars works in the force range 2 kN – 200 kN	Buildings Department PNAP APP-169 (Oct 2023) App. C
Welds (destructive)	Bend test on welds in metallic materials	BS EN 910: 1996 BS EN ISO 5173: 2010 + A1: 2011
	Bend test on arc stud welding in metallic materials	BS EN ISO 14555: 2017 Cl. 11.3

AQuality TestConsult Limited
東恒測試顧問有限公司
No.11 A&B, Kai Fong Garden, Ping Che Road, Fanling, New Territories, Hong Kong
香港新界粉嶺坪輋路啟芳園 11 號 A&B

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Welds (destructive) (cont'd)	Bend test on welding of reinforcing steel	BS EN ISO 17660-1: 2006 Cl. 14.4
	Charpy V-notch impact test on welds in metallic materials	BS EN 875: 1995 BS EN ISO 9016: 2012 BS EN ISO 9016: 2022
	Fracture test on welds in metallic materials	BS EN 1320: 1997 ISO 9017: 2001 BS EN ISO 9017: 2018
	Longitudinal tensile test on weld metal in fusion welded joints in the force range 3 kN – 2000 kN	BS EN 876: 1995 BS EN ISO 5178: 2011 BS EN ISO 5178: 2019
	Macroscopic examination on welds in metallic materials	BS EN 1321: 1997 BS EN ISO 17639: 2013 BS EN ISO 17639: 2022
	Macro examination of arc stud welding in metallic materials	BS EN ISO 14555: 2017 Cl. 11.6
	Shear test on welding of reinforcing steel in the force range 3 kN–2000kN	BS EN ISO 17660-1: 2006 Cl. 14.3
	Tensile test on welds in metallic materials in the force range 3 kN – 2000 kN	BS EN 10002-1: 2001 BS EN ISO 6892-1: 2009 Method B BS EN ISO 6892-1: 2016 Method B BS EN ISO 6892-1: 2019 Method B in conjunction with the following specification(s): BS EN 895: 1995 BS EN ISO 4136: 2012 BS EN ISO 4136: 2022
	Tensile test on arc stud welding in metallic materials in the force range of 3 kN - 2000 kN	BS EN ISO 6892-1: 2009 Method B BS EN ISO 6892-1: 2016 Method B BS EN ISO 6892-1: 2019 Method B in conjunction with the following specification(s): BS EN ISO 14555: 2017 Cl. 11.4
	Tensile test on welding of reinforcing steel in the force range 3 kN – 2000 kN	BS EN ISO 17660-1: 2006 Cl. 14.2
	Vickers hardness test across welded joints in the scale of HV 5 to HV 10	BS EN 1043-1: 1996 BS EN ISO 9015-1: 2011 ISO 9015-1: 2011

AQuality TestConsult Limited
東恒測試顧問有限公司
No.11 A&B, Kai Fong Garden, Ping Che Road, Fanling, New Territories, Hong Kong
香港新界粉嶺坪輋路啟芳園 11 號 A&B

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Welds (non-destructive)	Magnetic particle test (Magnetic flow method, colour contrast technique using permanent magnets, A.C. yokes)	BS 6072: 1981 BS EN 1290: 1998 BS EN ISO 9934-1: 2016 BS EN ISO 17638: 2009 BS EN ISO 17638: 2016 in conjunction with the following specification(s): BS 2971: 1991 Section 7 BS 4515-1: 2009 Table 9 BS 5400-6: 1999 Cl. 5.5.2.4.1 BS 5135: 1984 Table 18 & 19 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 BS EN ISO 5817: 2023 Table 1 BS EN ISO 23278: 2015 Cl. 5 & Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2005) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel (2023) Table 14.3b Hong Kong International Airport General Material & Workmanship Specification (GMWS) Issue No. 5b (2019) Vol. 1 – Civil & Structural Works Section 22.6.22
	Liquid penetrant test (Colour contrast method)	BS 6443: 1984 BS EN 571-1: 1997 BS EN ISO 3452-1: 2013 in conjunction with the following specification(s): BS 2971: 1991 Section 7 BS 4515-1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 BS EN ISO 5817: 2023 Table 1 BS EN ISO 23277: 2015 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2005) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel (2023) Table 14.3b Hong Kong International Airport General Material & Workmanship Specification (GMWS) Issue No. 5b (2019) Vol. 1 – Civil & Structural Works Section 22.6.22

AQuality TestConsult Limited
東恒測試顧問有限公司
No.11 A&B, Kai Fong Garden, Ping Che Road, Fanling, New Territories, Hong Kong
香港新界粉嶺坪輋路啟芳園 11 號 A&B

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Welds (non-destructive) (Cont'd)	Ultrasonic test (Butt welds in plates & pipes,'T'joint welds, nozzle welds & node welds)	BS 3923: Part 1: 1986 (Level 1, 2a, 2b & 3) BS EN 1714: 1998 (Level A, B, & C) BS EN ISO 17640: 2010 (Level A, B, & C) BS EN ISO 17640: 2018 (Level A, B, & C) in conjunction with the following specification(s): BS 2971: 1991 Section 7 BS 4515-1: 2009 Table 9 BS 5135: 1984 Table 18 BS 5400-6: 1999 Cl. 5.5.2.4.2 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 BS EN ISO 5817: 2023 Table 1 BS EN ISO 11666: 2010 Annex A BS EN ISO 11666: 2018 Annex A Buildings Department Code of Practice for the Structural Use of Steel (2005) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel (2023) Table 14.3b Hong Kong International Airport General Material & Workmanship Specification (GMWS) Issue No. 5b (2019) Vol. 1 – Civil & Structural Works Section 22.6.22

AQuality TestConsult Limited
東恒測試顧問有限公司
No.11 A&B, Kai Fong Garden, Ping Che Road, Fanling, New Territories, Hong Kong
香港新界粉嶺坪輋路啟芳園 11 號 A&B

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Welds (non-destructive) (Cont'd)	Visual examination	BS 5289: 1976 BS EN 970: 1997 BS EN ISO 17637: 2011 BS EN ISO 17637: 2016 in conjunction with the following specification(s): BS 2971: 1991 Section 7 BS 4515-1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 BS 5400-6: 1999 Cl. 5.5.2.4.1 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 BS EN ISO 5817: 2023 Table 1 BS EN ISO 14555: 2017 Table A.5 and A6 Buildings Department Code of Practice for the Structural Use of Steel (2005) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel (2023) Table 14.3b Hong Kong International Airport General Material & Workmanship Specification (GMWS) Issue No. 5b (2019) Vol. 1 – Civil & Structural Works Section 22.6.22
	Visual examination and bend test on stud connectors	<Visual examination as follows:> BS 5289: 1976 BS EN 970: 1997 BS EN ISO 17637: 2011 BS EN ISO 17637: 2016 < together with the following bend test method:> BS 5400-6: 1999 Cl. 5.5.4(b) in conjunction with the following specification: Buildings Department Code of Practice for the Structural Use of Steel (2011) Cl. 14.3.7.3

AQuality TestConsult Limited
東恒測試顧問有限公司
No.11 A&B, Kai Fong Garden, Ping Che Road, Fanling, New Territories, Hong Kong
香港新界粉嶺坪輋路啟芳園 11 號 A&B

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Water (Chemical analysis)	Sulphate content	In-house method WAT-C-001 (Gravimetric)
	Total dissolved solids	APHA 23e 2540C
	Chloride content	APHA 23e 4500-Cl^-B
	Total alkalinity	APHA 23e 2320B
	pH value	In-house method WAT-C-005
	Sodium oxide content (Na_2O)	BS EN 196-21: 1992 Cl. 7 (reference method)
	Potassium oxide content (K_2O)	BS EN 196-21: 1992 Cl. 7 (reference method)
	Alkali content (equivalent Na_2O)	BS EN 1008: 2002 Cl. 6.1.3 & BS EN 196-21: 1992 Cl. 7 (reference method)

Shiu Wing Steel Limited - MillBorne Laboratory
紹榮鋼鐵有限公司 - 港生試驗所

ADDRESS 地址	:	No. 5 Lung Yiu Street, Tuen Mun Area 38, Tap Shek Kok, New Territories, Hong Kong 香港新界踏石角屯門38區龍耀街5號
ENQUIRY 查詢	:	Mr HUNG Fung, Laboratory Manager 洪風先生，實驗室經理
TELEPHONE 電話	:	9469 9002 / 2452 7785
FAX 傳真	:	2626 9000
E-MAIL 電郵	:	enquiry@millborne.com.hk
WEBSITE ADDRESS 網址	:	www.shiuwingsteel.com
CLIENTELE 服務對象	:	Public 公眾

Shiu Wing Steel Limited - MillBorne Laboratory
紹榮鋼鐵有限公司 – 港生試驗所

ADDRESS **地址**	:	No. 5 Lung Yiu Street, Tuen Mun Area 38, Tap Shek Kok, New Territories, Hong Kong 香港新界踏石角屯門 38 區龍耀街 5 號
ACCREDITED TEST CATEGORY **認可測試類別**	:	Construction Materials 建築材料

Shiu Wing Steel Limited - MillBorne Laboratory
紹榮鋼鐵有限公司 – 港生試驗所

No. 5 Lung Yiu Street, Tuen Mun Area 38, Tap Shek Kok, New Territories, Hong Kong
香港新界踏石角屯門 38 區龍耀街 5 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Metallic materials	Bond property of steel reinforcing bars by surface geometry measurement	BS EN ISO 15630-1: 2002 + Corr. 1 Cl. 10, 11.2 & 11.3 CS2: 2012 (Rev. 6) Cl. 6.1 & 6.7.2 CS2: 2012 (Rev. 6) Cl. 6.1 & 6.7.2 with modification in conjunction with the following specification: BS 4449: 2005 + A2: 2009 Cl. 7.4 & 9
	Mass per meter of steel reinforcing bars	BS EN ISO 15630-1: 2002 + Corr. 1 Cl. 12 CS2: 2012 (Rev. 6) Cl. 6.1 & 6.2 in conjunction with the following specification: BS 4449: 2005 + A2: 2009 Cl. 7.2.2, 7.3 & 9
	Rebend test of reinforcing bars for reinforcement of concrete	BS EN ISO 15630-1: 2002 + Corr. 1 Cl. 7 CS2: 2012 (Rev. 6) Cl. 6.1 & 6.5 in conjunction with the following specification: BS 4449: 2005 + A2: 2009 Cl. 7.2.5 & 9
	Tensile test of reinforcing bars for reinforcement of concrete in the force range 20 kN – 1800 kN	BS EN ISO 6892-1: 2009 Cl. 10.4 Method B in conjunction with the following specification(s): BS 4449: 2005 + A2: 2009 Cl. 7.2.2, 7.2.3, 8.1.3.1 & 9 CS2: 2012 (Rev. 6) Cl. 6.1 & 6.4
Steel (chemical analysis) - Carbon steel and low alloy steel	Elemental composition: - - Carbon - Sulphur - Phosphorus - Nitrogen - Copper - Manganese - Chromium - Molybdenum - Vanadium - Nickel	In-house method TSOP501 (Spark-OES)
	Carbon equivalent value	In-house method TSOP502 (by calculation)

Hospital Authority – Medical Equipment Calibration Laboratory
醫院管理局 – 醫學儀器校正實驗所

ADDRESS : 5/F, Block B, Centre for Health Protection, 147C Argyle Street, Kowloon, Hong Kong
地址 香港九龍亞皆老街147C衞生防護中心B座5樓

ENQUIRY : Mr MAK Ming-him, Biomedical Engineer
查詢 麥明謙先生，醫學工程師

TELEPHONE : 2300 6332
電話

FAX : 2558 3343
傳真

E-MAIL : makmh@ha.org.hk
電郵

CLIENTELE : Public hospitals
服務對象 公營醫院

Hospital Authority – Medical Equipment Calibration Laboratory
醫院管理局 – 醫學儀器校正實驗所

ADDRESS : 5/F, Block B, Centre for Health Protection, 147C Argyle Street, Kowloon, Hong Kong
地址 香港九龍亞皆老街 147C 衞生防護中心 B 座 5 樓

ACCREDITED TEST CATEGORY : Calibration Services 校正服務
認可測試類別

Hospital Authority – Medical Equipment Calibration Laboratory
醫院管理局 – 醫學儀器校正實驗所
5/F, Block B, Centre for Health Protection, 147C Argyle Street, Kowloon, Hong Kong
香港九龍亞皆老街 147C 衞生防護中心 B 座 5 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED[@]** 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Acoustic measurement		
- Audiometer with earphone	On-site calibration of sound pressure level from 125 Hz to 4000 Hz in accordance with TP-001 over the following range:	
	20 to 140 dB	0.9 dB
	On-site calibration of sound pressure level from 6000 Hz to 8000 Hz in accordance with TP-001 over the following range:	
	20 to 140 dB	1.3 dB

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Hospital Authority – Medical Equipment Calibration Laboratory
醫院管理局 – 醫學儀器校正實驗所
5/F, Block B, Centre for Health Protection, 147C Argyle Street, Kowloon, Hong Kong
香港九龍亞皆老街 147C 衞生防護中心 B 座 5 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED[@]** 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Acoustic measurement (cont'd)		
- Audiometer with bone vibrator	On-site calibration of vibratory force level from 250 Hz to 1500 Hz in accordance with TP-002 over the following range:	
	20 to 140 dB	1.2 dB
	On-site calibration of vibratory force level at 2000 Hz in accordance with TP-002 over the following range:	
	20 to 140 dB	1.4 dB
	On-site calibration of vibratory force level at 3000 Hz in accordance with TP-002 over the following range:	
	20 to 140 dB	1.8 dB
	On-site calibration of vibratory force level at 4000 Hz in accordance with TP-002 over the following range:	
	20 to 140 dB	2.0 dB
	On-site calibration of vibratory force level at 6000 Hz in accordance with TP-002 over the following range:	
	20 to 140 dB	2.5 dB
	On-site calibration of vibratory force level at 8000 Hz in accordance with TP-002 over the following range:	
	20 to 140 dB	2.5 dB

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Hospital Authority – Medical Equipment Calibration Laboratory
醫院管理局 – 醫學儀器校正實驗所
5/F, Block B, Centre for Health Protection, 147C Argyle Street, Kowloon, Hong Kong
香港九龍亞皆老街 147C 衞生防護中心 B 座 5 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electrical measurements		
- Direct Current and Low Frequency Measurements		
- Electrical safety analyzer	Calibration for the following parameters in accordance with in-house procedure TP-021:	
	- Supply voltage (AC): 50 Hz 220 V	 2 V
	- Protective earth resistance: 0.5 Ω Above 0.5 Ω to 1 Ω	 0.026 Ω 0.03 Ω
	- Insulation resistance: 1 MΩ Above 1 MΩ to 10 MΩ Above 10 MΩ to 47 MΩ	 0.39 MΩ 0.4 MΩ 1 MΩ
	- Leakage current (AC): 50 Hz 10 μA to 50 μA Above 50 μA to 1 000 μA Above 1 000 μA to 10 000 μA	 2 μA 3 μA 23 μA
	- Leakage current (DC): 10 μA to 1 000 μA	 2 μA
- Electrocardiogram (ECG) simulator	Calibration for peak-to-peak voltage of sinusoidal waveform at 10 Hz in accordance with in-house procedure TP-023 over the following levels:	
	1 mV 3 mV 5 mV	0.20 mV 0.50 mV 0.90 mV

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Hospital Authority – Medical Equipment Calibration Laboratory
醫院管理局 – 醫學儀器校正實驗所
5/F, Block B, Centre for Health Protection, 147C Argyle Street, Kowloon, Hong Kong
香港九龍亞皆老街 147C 衞生防護中心 B 座 5 樓

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Temperature measurements		
- Digital thermometer	Calibration of temperature in accordance with in-house procedure TP-011 over the following range:	
	2 ˚C to 60 ˚C	0.3 ˚C
- Temperature recorder / logger	Calibration of temperature in accordance with in-house procedure TP-011 over the following range:	
	2 ˚C to 60 ˚C	0.21 ˚C

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Acumen Laboratory and Testing Limited
浩科檢測中心有限公司

ADDRESS 地址	:	Workshop 04, 7/F, The Whitney, No. 183 Wai Yip Street, Kwun Tong, Kowloon, Hong Kong 香港九龍觀塘偉業街 183 號 The Whitney 7 樓 04 室
ENQUIRY 查詢	:	Mr Huntington HUI Wai-fung 許偉峰先生
TELEPHONE 電話	:	2333 6823
FAX 傳真	:	2333 1316
E-MAIL 電郵	:	AcumenLAB@aurecongroup.com
CLIENTELE 服務對象	:	Public 公眾

Acumen Laboratory and Testing Limited
浩科檢測中心有限公司

ADDRESS **地址**	:	Workshop 04, 7/F, The Whitney, No. 183 Wai Yip Street, Kwun Tong, Kowloon, Hong Kong 香港九龍觀塘偉業街 183 號 The Whitney 7 樓 04 室
ACCREDITED TEST CATEGORY **認可測試類別**	:	Environmental Testing 環境測試

Acumen Laboratory and Testing Limited
浩科檢測中心有限公司
Workshop 04, 7/F, The Whitney, No. 183 Wai Yip Street, Kwun Tong, Kowloon, Hong Kong
香港九龍觀塘偉業街 183 號 The Whitney 7 樓 04 室

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Indoor Air Quality Testing	Extractable components collected in passive samplers:-	
	- Formaldehyde	In-house method QPL-15c (HPLC/DAD)
Collectate sampled by single-stage Andersen sampler	Microbiological tests:-	
	Airborne bacteria count (number of colonies on agar plate) (30 ℃ for 2 days)	In-house method QPL-15b

Acumen Laboratory and Testing Limited
浩科檢測中心有限公司
Workshop 04, 7/F, The Whitney, No. 183 Wai Yip Street, Kwun Tong, Kowloon, Hong Kong
香港九龍觀塘偉業街 183 號 The Whitney 7 樓 04 室

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Water and Wastewater	Physical examination:-	
	- pH	APHA 22e 4500-H^+ B
	- Total suspended solids	APHA 22e 2540D APHA 23e 2540D
	Trace Metals (acid-extractable): -	
	- Iron	In-house method QPL-15g (ICP-OES)
	Organic pollutants:-	
	- Chemical oxygen demand	APHA 22e 5220B (Open reflux)
Saline water	Physical examination:-	
	- Total suspended solids	APHA 23e 2540D
	Trace Metals (acid-extractable): -	
	- Iron	In-house method QPL-15g (ICP-OES)

Eurofins Food Testing Hong Kong Limited
歐陸食品檢測服務香港有限公司

ADDRESS 地址	:	Flat A, 13/F, Hover Industrial Building, 26-38 Kwai Cheong Road, Kwai Chung, New Territories, Hong Kong. 香港新界葵涌葵昌路26-38號豪華工業大廈13樓A室
ENQUIRY 查詢	:	Mr Oscar NGAI Man-kit, Assistant Quality Assurance Manager 魏文傑先生，助理品質保證經理
TELEPHONE 電話	:	2636 3227
FAX 傳真	:	2636 0211
E-MAIL 電郵	:	OscarNgai@ft.eurofinscn.com
WEBSITE ADDRESS 網址	:	www.eurofins.hk
CLIENTELE 服務對象	:	Public 公眾

Eurofins Food Testing Hong Kong Limited
歐陸食品檢測服務香港有限公司

ADDRESS **地址**	:	Flat A, 13/F, Hover Industrial Building, 26-38 Kwai Cheong Road, Kwai Chung, New Territories, Hong Kong. 香港新界葵涌葵昌路 26-38 號豪華工業大廈 13 樓 A 室
ACCREDITED TEST CATEGORY **認可測試類別**	:	Environmental Testing 環境測試 Food 食品

Eurofins Food Testing Hong Kong Limited
歐陸食品檢測服務香港有限公司

Flat A, 13/F, Hover Industrial Building, 26-38 Kwai Cheong Road, Kwai Chung, New Territories, Hong Kong.
香港新界葵涌葵昌路 26-38 號豪華工業大廈 13 樓 A 室

Environmental Testing 環境測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Microbiological examination: -	
Water	- Enumeration of *E. coli*	ISO 9308-1:2014/Amd.1:2016(en) (Membrane Filtration Method)
	- Enumeration of Coliform	ISO 9308-1:2014/Amd.1:2016(en) (Membrane Filtration Method) APHA 22e, 9222B (Membrane Filtration Method)
	- Heterotrophic Plate Count	APHA 22e, 9215B (Pour Plate Method)
Saline water	- Enumeration of Coliform	APHA 22e, 9222B (Membrane Filtration Method)
	- Heterotrophic Plate Count	APHA 22e, 9215B (Pour Plate Method)
Water and Wastewater	- Enumeration of *Legionellae* including *Legionella pneumophila*	ISO11731:2017 AS 3896:2017
	- Enumeration of fecal Coliform	APHA 22e, 9222B and 9222G APHA 22e, 9222D and 9222G
	- Enumeration of *E. coli*	APHA 22e, 9222B and 9222G APHA 22e, 9222D and 9222G
	- Detection and enumeration of *Pseudomonas aeruginosa*	EN ISO 16266:2008 (Membrane filtration)

Eurofins Food Testing Hong Kong Limited
歐陸食品檢測服務香港有限公司

Flat A, 13/F, Hover Industrial Building, 26-38 Kwai Cheong Road, Kwai Chung, New Territories, Hong Kong.
香港新界葵涌葵昌路 26-38 號豪華工業大廈 13 樓 A 室

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Microbiological examination: -	
General Foodstuff	- Aerobic plate count	US FDA Bacteriological Analytical Manual Online (BAM online), Ch. 3, January 2001 (Conventional Plate Count Method) GB 4789.2-2022 (Conventional Plate Count Method) <***Excluding the following***> Cl. 4.2, 6.2.2
	- Coliform count	US FDA Bacteriological Analytical Manual Online (BAM online), Ch. 4, July 2017 (Solid medium method) AOAC Official Method 991.14 (2005) (Petrifilm Method)
	- *Staphylococcus aureus* count	US FDA Bacteriological Analytical Manual Online (BAM online), Ch. 12, March 2016 (Conventional Plate Count Method)
	- *Beta-Glucuronidase positive E. coli* count	ISO 16649-2:2001 (Conventional Plate Count Method)
	- *E. coli* count	AOAC Official Method 991.14 (2005) (Petrifilm Method)
	- *Clostridium perfringens* count	US FDA Bacteriological Analytical Manual Online (BAM online), Ch. 16, January 2001 (Conventional Plate Count Method)
	- *Enterobacteriaceae* count	ISO 21528-2:2017 (Conventional Plate Count Method)
	- Enumeration of *Listeria monocytogenes*	ISO 11290-2:2017
	- Detection of *Listeria monocytogenes*	US FDA Bacteriological Analytical Manual Online (BAM online), Ch. 10, March 2017
	- Detection of *Salmonella*	US FDA Bacteriological Analytical Manual Online (BAM online), Ch. 5, August 2016
	- Detection of potentially enteropathogenic *Vibrio cholerae*	ISO21872-1:2017 <***Excluding the following***> Cl. 9.5.5 to 9.5.8

Eurofins Food Testing Hong Kong Limited
歐陸食品檢測服務香港有限公司

Flat A, 13/F, Hover Industrial Building, 26-38 Kwai Cheong Road, Kwai Chung, New Territories, Hong Kong.
香港新界葵涌葵昌路 26-38 號豪華工業大廈 13 樓 A 室

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Microbiological examination: -	
General Foodstuff	- Detection of potentially enteropathogenic *Vibrio parahaemolyticus*	ISO21872-1:2017 <***Excluding the following***> Cl. 9.5.5 to 9.5.8
Poultry, Meat and seafood	- *E. coli* count	AOAC Official Method 998.08 (2005) (Petrifilm Method)
Water	- Enumeration of *E. coli*	ISO 9308-1:2014/Amd.1:2016(en) (Membrane Filtration Method) APHA 22e, 9222B and 9222G
	- Enumeration of Coliform	ISO 9308-1:2014/Amd.1:2016(en) (Membrane Filtration Method) APHA 22e, 9222B (Membrane Filtration Method)
	- Enumeration of fecal Coliform	APHA 22e, 9222B and 9222G
	- Heterotrophic Plate Count	APHA 22e, 9215B (Pour Plate Method)
	- Detection and enumeration of *Pseudomonas aeruginosa*	EN ISO 16266:2008 (Membrane filtration)
Selected meat, poultry, eggs, seafood & vegetables	- Detection of *Salmonella*	AOAC Official Method 2014.01 (3M Petrifilm Method)
Selected Types of Processed and Prepared Foods	- Enumeration of *Staphylococcus aureus*	AOAC Official Method 2003.07 (2006) (3M Petrifilm Method)
Selected Dairy Foods	- Enumeration of *Staphylococcus aureus*	AOAC Official Method 2003.08 (2003) (3M Petrifilm Method)
Selected Meat, Seafood and Poultry	- Enumeration of *Staphylococcus aureus*	AOAC Official Method 2003.11 (2007) (3M Petrifilm Method)
Swab of surface in contact with food	- Detection of *Listeria monocytogenes*	US FDA Bacteriological Analytical Manual Online (BAM online), Ch. 10, March 2017
	- Detection of *Salmonella*	US FDA Bacteriological Analytical Manual Online (BAM online), Ch. 5, August 2016

Hong Kong Institute of Medical Laboratory Sciences - Quality Assurance Programme Limited
香港醫務化驗學會品質保證計劃有限公司

ADDRESS 地址	:	Flat 1711, Floor 17, Block C, Bell House, 525-543 Nathan Road, Kowloon, Hong Kong 香港九龍彌敦道 525 – 543號寶寧大廈C座17樓1711室
ENQUIRY 查詢	:	Mrs Christina LONG LEUNG Siu-miu 龍梁少梅女士
TELEPHONE 電話	:	2499 0015
FAX 傳真	:	2124 2798
E-MAIL 電郵	:	info@hkimlsqap.org
WEBSITE ADDRESS 網址	:	hkimlsqap.org
CLIENTELE 服務對象	:	Local and overseas laboratories 本地及外地實驗所

Hong Kong Institute of Medical Laboratory Sciences - Quality Assurance Programme Limited
香港醫務化驗學會品質保證計劃有限公司

ADDRESS **地址**	:	Flat 1711, Floor 17, Block C, Bell House, 525-543 Nathan Road, Kowloon, Hong Kong. 香港九龍彌敦道 525 - 543 號寶寧大廈 C 座 17 樓 1711 室
ACCREDITED TEST CATEGORY **認可測試類別**	:	Proficiency Testing Providers 能力驗證提供者

Hong Kong Institute of Medical Laboratory Sciences - Quality Assurance Programme Limited
香港醫務化驗學會品質保證計劃有限公司

Flat 1711, Floor 17, Block C, Bell House, 525-543 Nathan Road, Kowloon, Hong Kong.
香港九龍彌敦道 525 - 543 號寶寧大廈 C 座 17 樓 1711 室

Provision of Proficiency Testing Schemes 提供能力驗證		
PROFICIENCY TESTING SCHEME AND ITEM 能力驗證計劃及項目	**MEASURAND OR CHARACTERISTIC MEASURED** 測試參數或特質	**PROFICIENCY TESTING SCHEME PROCEDURE#** 能力驗證計劃程序
Proficiency Testing Schemes for Medical Testing: Hong Kong Institute of Medical Laboratory Sciences Quality Assurance Programme (HKIMLSQAP) Cytopathology Microscopy Module Cervical Cytology Smears stained with Papanicolaou stain Non-gynaecological cytology smears stained with Papanicolaou stain or Haematoxylin & Eosin	Cytopathology screening	Procedure as documented in SOP-19
Non-gynaecological Slide Preparation Module Non-gynaecological cytology smears stained with Papanicolaou stain and/or Haematoxylin & Eosin	Preparation and staining quality of non-gynaecology cytology smears	Procedure as documented in SOP-20

INCLUDING PROCEDURES FOR DETERMINING ASSIGNED VALUES AND THE UNCERTAINTY

Jesee Inspection Technology Co., Ltd.
深圳市建旭檢驗科技有限公司

ADDRESS 地址	:	Room 8416 of R&D Building, Tongzhou Electronic Factory, 1 Baolong 5th Road, Baolong Community Area, Baolong Town, Longgang District, Shenzhen, China 中國深圳市龍崗區寶龍街道寶龍社區寶龍五路 1 號同洲電子龍崗廠區辦公研發樓8416
ENQUIRY 查詢	:	Mr LI Bin, General Manager 李斌先生，總經理
TELEPHONE 電話	:	0755-86276193
FAX 傳真	:	0755-26426205
E-MAIL 電郵	:	szjxtes@126.com
WEBSITE ADDRESS 網址	:	www.jesee.com.cn
CLIENTELE 服務對象	:	Public 公眾

Jesee Inspection Technology Co., Ltd.
深圳市建旭檢驗科技有限公司

ADDRESS
地址

Main Laboratory	:	Room 8416 of R&D Building, Tongzhou Electronic Factory, 1 Baolong 5th Road, Baolong Community Area, Baolong Town, Longgang District, Shenzhen, China 中國深圳市龍崗區寶龍街道寶龍社區寶龍五路 1 號同洲電子龍崗廠區辦公研發樓 8416 室
Test Location	:	Rooms 103 & 106 of Plant A, Tongzhou Electronic Factory, 1 Baolong 5th Road, Baolong Community Area, Baolong Town, Longgang District, Shenzhen, China 中國深圳市龍崗區寶龍街道寶龍社區寶龍五路 1 號同洲電子龍崗廠區 A 廠房 103 和 106 室
ACCREDITED TEST CATEGORY **認可測試類別**	:	Construction Materials 建築材料

Jesee Inspection Technology Co., Ltd.
深圳市建旭檢驗科技有限公司
Room 8416 of R&D Building, Tongzhou Electronic Factory, 1 Baolong 5th Road, Baolong Community Area, Baolong Town, Longgang District, Shenzhen, China
中國深圳市龍崗區寶龍街道寶龍社區寶龍五路 1 號同洲電子龍崗廠區辦公研發樓 8416 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Metallic materials (non-destructive)	Ultrasonic test of metallic materials (reflection method)	BS 5996: 1993 BS EN 10160: 1999
Structural fixings	Tensile proof load test of anchor bolts, dowel bars, channel inserts and embed plates by incremental loading in the force range 1 kN to 300 kN	BS 5080 Part 1: 1993 C1.6, 7.1.1 & 7.1.3 with modifications
	Tensile proof load test of drilled-in anchors used for cantilevered structure/hanger/curtain wall remedial works by incremental loading in the force range 1 kN – 300 kN	Buildings Department PNAP APP-169 (Oct 2023) App. A
	Tensile proof load test of drilled-in anchors used for works other than cantilevered structure/ hanger/curtain wall remedial works in the force range 1 kN – 300 kN	Buildings Department PNAP APP-169 (Oct 2023) App. B
	Tensile proof load test for cementitious or polymer based grouted bolts or dowels or reinforcing bars works or/and steel T-bolts with cast-in channels in the force range 1 kN – 300 kN	Buildings Department PNAP APP-169 (Oct 2023) App. C
	Shear proof load test of anchor bolts and dowel bars by incremental loading in the force range 1 kN to 300 kN	BS 5080 Part 2: 1986 + Amd. 7602 C1.4, 7.1, 7.2.1 & 7.2.3 with modifications
	Shear proof load test of drilled-in anchors used for cantilevered structure/hanger/curtain wall remedial works by incremental loading in the force range 1 kN – 300 kN	Buildings Department PNAP APP-169 (Oct 2023) App. A
	Shear proof load test of drilled-in anchors used for works other than cantilevered structure/ hanger/curtain wall remedial works in the force range 1 kN – 300 kN	Buildings Department PNAP APP-169 (Oct 2023) App. B
	Shear proof load test cementitious or polymer based grouted bolts in the force range 1 kN – 300 kN	Buildings Department PNAP APP-169 (Oct 2023) App. C

Jesee Inspection Technology Co., Ltd.
深圳市建旭檢驗科技有限公司
Room 8416 of R&D Building, Tongzhou Electronic Factory, 1 Baolong 5th Road, Baolong Community Area, Baolong Town, Longgang District, Shenzhen, China
中國深圳市龍崗區寶龍街道寶龍社區寶龍五路 1 號同洲電子龍崗廠區辦公研發樓 8416 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Welds (non-destructive)	Liquid penetrant test (Colour contrast and solvent removal method)	BS 6443: 1984 BS EN 571-1: 1997 BS EN ISO 3452-1: 2013 BS EN ISO 3452-1: 2021 in conjunction with the following specification(s): BS 4515-1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 BS EN 1289: 1998 Table 1 BS EN ISO 5817: 2003 Table 1 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 BS EN ISO 5817: 2023 Table 1 BS EN ISO 10042: 2018 Table 1 BS EN ISO 23277: 2009 Table 1 BS EN ISO 23277: 2015 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel 2011 (2023 Edition) Table 14.3b Hong Kong International Airport General Materials & Workmanship Specification (GMWS) Issue No. 5a (2019) Vol. 1 – Civil & Structural Works Section 22.6.22

Jesee Inspection Technology Co., Ltd.
深圳市建旭檢驗科技有限公司
Room 8416 of R&D Building, Tongzhou Electronic Factory, 1 Baolong 5th Road, Baolong Community Area, Baolong Town, Longgang District, Shenzhen, China
中國深圳市龍崗區寶龍街道寶龍社區寶龍五路 1 號同洲電子龍崗廠區辦公研發樓 8416 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Welds (non-destructive) (cont'd)	Magnetic particle test (magnetic flow method and colour contrast method using permanent magnets, A.C. and D.C. yokes)	BS 6072: 1981 (1986) BS EN 1290: 1998 BS EN ISO 9934-1: 2001 BS EN ISO 9934-1: 2016 BS EN ISO 17638: 2009 BS EN ISO 17638: 2016 in conjunction with the following specification(s): BS 4515-1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 BS 5400-6: 1999 Cl. 5.5.2.4.1 BS EN 1291: 1998 Table 1 BS EN ISO 5817: 2003 Table 1 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 BS EN ISO 5817: 2023 Table 1 BS EN ISO 23278: 2009 Table 1 & Cl. 5 BS EN ISO 23278: 2015 Table 1 & Cl. 5 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel 2011 (2023 Edition) Table 14.3b Hong Kong International Airport General Materials & Workmanship Specification (GMWS) Issue No. 5a (2019) Vol. 1 – Civil & Structural Works Section 22.6.22
	Radiographic examination (X-ray)	BS 2600: Part 1: 1983 BS 2910: 1986 BS EN 1435: 1997 BS EN ISO 17636-1: 2013 (Up to 350 kV) BS EN ISO 17636-1: 2022 (Up to 350 kV) in conjunction with the following specification(s): BS 4515-1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 BS EN 12517: 1998 BS EN 12517-1: 2006 BS EN ISO 5817: 2003 Table 1 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 BS EN ISO 5817: 2023 Table 1 BS EN ISO 10042: 2018 Table 1 BS EN ISO 10675-1: 2013 BS EN ISO 10675-1: 2016 BS EN ISO 10675-1: 2021

Jesee Inspection Technology Co., Ltd.
深圳市建旭檢驗科技有限公司
Room 8416 of R&D Building, Tongzhou Electronic Factory, 1 Baolong 5th Road, Baolong Community Area, Baolong Town, Longgang District, Shenzhen, China
中國深圳市龍崗區寶龍街道寶龍社區寶龍五路 1 號同洲電子龍崗廠區辦公研發樓 8416 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Welds (non-destructive) (cont'd)	Ultrasonic test (Butt welds in plates & pipes, 'T' joint welds, nozzle welds and node welds)	BS 3923: Part 1: 1986 (Level 1, 2a, 2b & 3) BS EN 1714: 1998 (Level A, B & C) BS EN ISO 17640: 2010 (Level A, B & C) BS EN ISO 17640: 2018 (Level A, B & C) in conjunction with the following specification(s): BS 4515-1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 BS 5400-6: 1999 Cl. 5.5.2.4.2 BS EN 1712: 1997 Table A.1 BS EN ISO 5817: 2003 Table 1 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 BS EN ISO 5817: 2023 Table 1 BS EN ISO 11666: 2010 Cl. 5 & Annex A BS EN ISO 11666: 2018 Cl. 6 & Annex A Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel 2011 (2023 Edition) Table 14.3b Hong Kong International Airport General Materials & Workmanship Specification (GMWS) Issue No. 5a (2019) Vol. 1 – Civil & Structural Works Section 22.6.22
	Visual examination	BS 5289: 1976 BS EN 970: 1997 BS EN ISO 17637: 2011 BS EN ISO 17637: 2016 in conjunction with the following specification(s): BS 4515-1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 BS 5400-6: 1999 Cl. 5.5.2.4.1 BS EN ISO 5817: 2003 Table 1 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 BS EN ISO 5817: 2023 Table 1 BS EN ISO 10042: 2018 Table 1 BS EN ISO 14555: 2017 Cl. 11.2 & 12.2 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel 2011 (2023 Edition) Table 14.3b Hong Kong International Airport General Materials & Workmanship Specification (GMWS) Issue No. 5a (2019) Vol. 1 – Civil & Structural Works Section 22.6.22

Jesee Inspection Technology Co., Ltd.
深圳市建旭檢驗科技有限公司
Room 8416 of R&D Building, Tongzhou Electronic Factory, 1 Baolong 5th Road, Baolong Community Area, Baolong Town, Longgang District, Shenzhen, China
中國深圳市龍崗區寶龍街道寶龍社區寶龍五路 1 號同洲電子龍崗廠區辦公研發樓 8416 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Welds (non-destructive) (cont'd)	Visual examination and bend test on stud connectors	<Visual examination as follows:> BS 5289: 1976 BS EN 970: 1997 BS EN ISO 17637: 2011 BS EN ISO 17637: 2016 < together with the following bend test method(s):> BS 5400-6: 1999 Cl. 5.5.4(b) BS EN ISO 14555: 2017 Cl. 11.2, 11.3 (excluding Torque wrench method), 12.2 & 12.3 Buildings Department Code of Practice for the Structural Use of Steel (2005) Cl. 14.3.7.3 Buildings Department Code of Practice for the Structural Use of Steel (2011) Cl. 14.3.7.3 Buildings Department Code of Practice for the Structural Use of Steel 2011 (2023) Cl. 14.3.7.3

Jesee Inspection Technology Co., Ltd.
深圳市建旭檢驗科技有限公司
Rooms 103 & 106 of Plant A, Tongzhou Electronic Factory, 1 Baolong 5th Road, Baolong Community Area, Baolong Town, Longgang District, Shenzhen, China
中國深圳市龍崗區寶龍街道寶龍社區寶龍五路 1 號同洲電子龍崗廠區 A 廠房 103 和 106 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Coating	Pull-off test of adhesion	BS EN ISO 4624: 2003, BS 3900-E10: 2003 Cl. 9.4.2 BS EN ISO 4624: 2016 Cl. 8.4.2
	Dry-film coating thickness	BS EN ISO 2808: 2019 (Method 7B.2 - Magnetic induction) ISO 2808: 2007(E) (Method 7C - Magnetic induction)
	Cross cut test	BS EN ISO 2409: 2020 excluding Cl. 6 ISO 2409: 2013
Metallic materials	Brinell hardness test of metallic materials in the scales of HBW 2.5 / 187.5	BS EN ISO 6506-1: 2005 BS EN ISO 6506-1: 2014
	Charpy V-notch impact test	BS EN 10045-1: 1990 BS EN ISO 148-1: 2010 BS EN ISO 148-1: 2016 in conjunction with the following specification(s): BS EN 10025-2: 2004 Cl. 10.2 & Table 9 BS EN 10025-2: 2019 Table 8 BS EN 10025-3: 2004 Cl. 10.2, Table 6 & 7 BS EN 10025-3: 2019 Table 5 BS EN 10025-4: 2004 Cl. 10.2, Table 6 & 7 BS EN 10025-4: 2019 Table 5 BS EN 10025-5: 2004 Cl. 10.2 & Table 5 BS EN 10025-5: 2019 Table 5 BS EN 10025-6: 2004 Cl. 10.2, Table 6 & 7 BS EN 10025-6: 2019 Table 5 BS EN 10088-2: 2005 Table 8, 10 & 11 BS EN 10088-3: 2005 Table 9 to 12 & 14 - 17 BS EN 10210-1: 2006 Cl. 6.6.2, 9.2.3, Table A.3 & B.3 BS EN 10219-1: 2006 Cl. 6.7.2, 9.2.3, Table A.3, B.4 & B.5
	Proof load test of steel nuts in the force range 5 kN – 950 kN	BS 3692: 2001 Annex C.1 BS EN ISO 898-2: 2012 Cl. 9.1 BS EN ISO 898-2: 2022 Cl. 10.1 in conjunction with the following specification(s): BS EN ISO 3506-2: 2009 Table 2
	Proof load test of unmachined (finished) bolts, screws and studs in the force range 5 kN – 950 kN	BS EN ISO 898-1: 2013 Cl. 9.6

Jesee Inspection Technology Co., Ltd.
深圳市建旭檢驗科技有限公司
Rooms 103 & 106 of Plant A, Tongzhou Electronic Factory, 1 Baolong 5th Road, Baolong Community Area, Baolong Town, Longgang District, Shenzhen, China
中國深圳市龍崗區寶龍街道寶龍社區寶龍五路 1 號同洲電子龍崗廠區 A 廠房 103 和 106 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Metallic materials (cont'd)	Rockwell hardness test of metallic materials in the scales of HRA, HRB and HRC	BS EN ISO 6508-1: 2005 BS EN ISO 6508-1: 2016 BS EN ISO 6508-1: 2023
	Tensile test of metallic materials in the force range 5 kN – 950 kN	BS EN 10002-1: 2001 BS EN ISO 6892-1: 2009 Cl. 10.3 Method A BS EN ISO 6892-1: 2019 Cl. 10.3.2 Method A in conjunction with the following specification(s): BS EN 10025-2: 2004 Cl. 10.2, Table 7 & 8 BS EN 10025-2: 2019 Table 6 & 7 BS EN 10025-3: 2004 Cl. 10.2 & Table 5 BS EN 10025-3: 2019 Table 4 BS EN 10025-4: 2004 Cl. 10.2 & Table 5 BS EN 10025-4: 2019 Table 4 BS EN 10025-5: 2004 Cl. 10.2 & Table 4 BS EN 10025-5: 2019 Table 4 BS EN 10025-6: 2004 Cl. 10.2 & Table 5 BS EN 10025-6: 2019 Table 4 BS EN 10088-2: 2014 Table 7-17 BS EN 10088-3: 2014 Table 8-17 BS EN 10164: 2018 Cl. 6 & 9.1 BS EN 10210-1: 2006 Cl. 6.6.1, 9.2.1 & 9.2.2 BS EN 10219-1: 2006 Cl. 6.7.1, 9.2.1 & 9.2.2
	Tensile test under wedge loading of unmachined (finished) bolts and screws in the force range 5 kN – 950 kN	BS EN ISO 6892-1: 2019 Cl. 10.3.2 Method A in conjunction with the following specification(s): BS EN ISO 898-1: 2013 Cl. 9.1
	Tensile test of unmachined (finished) bolts, screws and studs in the force range 5 kN – 950 kN	BS EN ISO 6892-1: 2019 Cl. 10.3.2 Method A in conjunction with the following specification(s): BS 4190: 2014 Part 15 BS EN 14399-3: 2015 Part 3.2 BS EN 14399-4: 2015 Part 3.2 BS EN ISO 898-1: 2013 Cl. 9.2 BS EN ISO 3506-1: 2009 Table 2-3
	Tensile test of machined bolts, screws and studs in the force range 5 kN – 950 kN	BS EN ISO 6892-1: 2019 Cl. 10.3.2 Method A in conjunction with the following specification(s): BS EN ISO 898-1: 2013 Cl. 9.7
	Vickers hardness test of metallic materials in the scales of HV 1, HV 3, HV 5 and HV 10	BS 427: 1990 BS EN ISO 6507-1: 2005 BS EN ISO 6507-1: 2018 BS EN ISO 6507-1: 2023

Jesee Inspection Technology Co., Ltd.
深圳市建旭檢驗科技有限公司
Rooms 103 & 106 of Plant A, Tongzhou Electronic Factory, 1 Baolong 5th Road, Baolong Community Area, Baolong Town, Longgang District, Shenzhen, China
中國深圳市龍崗區寶龍街道寶龍社區寶龍五路 1 號同洲電子龍崗廠區 A 廠房 103 和 106 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Welds (destructive)	Bend test on welds in metallic materials (only for 180 degree bend)	BS EN 910: 1996 BS EN ISO 5173: 2010 + A1: 2011 BS EN ISO 5173: 2023
	Charpy V-notch impact test on welds in metallic materials	BS EN 875: 1995 BS EN ISO 9016: 2011 BS EN ISO 9016: 2012 BS EN ISO 9016: 2022
	Macroscopic examination on welds in metallic materials	BS EN 1321: 1997 BS EN ISO 17639: 2013 BS EN ISO 17639: 2022
	Transverse tensile test on welds in metallic materials in the force range 5 kN – 950 kN	BS EN 895: 1995 BS EN ISO 4136: 2011 BS EN ISO 4136: 2012 BS EN ISO 4136: 2022
	Vickers hardness test on welded joints in the scales of HV 1, HV 3, HV 5 and HV 10	BS EN 1043-1: 1996 BS EN ISO 9015-1: 2011

Union Professional Test-Consult Limited
聯合專業測試顧問有限公司

ADDRESS 地址	:	Workshop 1 (Including A Store Room), 15/F, Canny Industrial Building, No.33 Tai Yau Street, Kowloon, Hong Kong 香港九龍大有街 33 號佳力工業大廈 15 樓 1 室
ENQUIRY 查詢	:	Mr Jack TANG Wan-lung, General Manager 鄧雲龍先生，總經理
TELEPHONE 電話	:	3565 6273
FAX 傳真	:	3565 6275
E-MAIL 電郵	:	info@unionpro.com.hk
CLIENTELE 服務對象	:	Public 公眾

Union Professional Test-Consult Limited
聯合專業測試顧問有限公司

ADDRESS **地址**	:	Workshop 1 (Including A Store Room), 15/F, Canny Industrial Building, No.33 Tai Yau Street, Kowloon, Hong Kong 香港九龍大有街 33 號佳力工業大廈 15 樓 1 室
ACCREDITED TEST CATEGORY **認可測試類別**	:	Construction Materials 建築材料

Union Professional Test-Consult Limited
聯合專業測試顧問有限公司
Workshop 1 (Including A Store Room), 15/F, Canny Industrial Building, No.33 Tai Yau Street, Kowloon, Hong Kong
香港九龍大有街 33 號佳力工業大廈 15 樓 1 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Structural fixings	Tensile proof load test of anchors, dowel bars and channel inserts by incremental loading in the force range 2 kN – 180 kN	BS 5080 Part 1: 1993 Cl. 6, 7.1.1 & 7.1.3 with modification
	Tensile proof load test of drilled-in anchors used for cantilevered structure/hanger/curtain wall remedial works by incremental loading in the force range 2 kN to 180 kN	Buildings Department PNAP APP-169 (Oct 2023) App. A
	Tensile proof load test of drilled-in anchors used for works other than cantilevered structure/ hanger/curtain wall remedial works in the force range 2 kN to 180 kN	Buildings Department PNAP APP-169 (Oct 2023) App. B
	Tensile proof test of cementitious or polymer based grouted bolts or dowels or reinforcing bars works or/and steel T-bolts with cast-in channels in the force range 2 kN to 180 kN	Buildings Department PNAP APP-169 (Oct 2023) App. C

Union Professional Test-Consult Limited
聯合專業測試顧問有限公司
Workshop 1 (Including A Store Room), 15/F, Canny Industrial Building, No.33 Tai Yau Street, Kowloon, Hong Kong
香港九龍大有街 33 號佳力工業大廈 15 樓 1 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Welds (non-destructive)	Liquid penetrant test (Colour contrast method)	BS EN 571-1: 1997 BS EN ISO 3452-1: 2013 BS EN ISO 3452-1: 2021 in conjunction with the following specification(s): BS 2971: 1991 Section 7 BS 4515-1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 BS 5400-6: 1999 Cl. 5.5.2.4.1 BS EN 25817: 1992 Table 1 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2005) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b
	Magnetic particle test (Magnetic flow method, colour contrast technique using permanent magnets and A.C. yokes)	BS 6072: 1981 + Amd. 4843 BS EN 1290: 1998 + A2: 2003 BS EN ISO 9934-1: 2001 + A1: 2003 BS EN ISO 9934-1: 2016 BS EN ISO 17638: 2009 BS EN ISO 17638: 2016 in conjunction with the following specification(s): BS 2971: 1991 Section 7 BS 4515-1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 BS 5400-6: 1999 Cl. 5.5.2.4.1 BS EN 25817: 1992 Table 1 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2005) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b

Union Professional Test-Consult Limited
聯合專業測試顧問有限公司
Workshop 1 (Including A Store Room), 15/F, Canny Industrial Building, No.33 Tai Yau Street, Kowloon, Hong Kong
香港九龍大有街 33 號佳力工業大廈 15 樓 1 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Welds (non-destructive) (cont'd)	Ultrasonic test (Butt welds in plates and pipes, 'T' joint welds, nozzle welds & node welds)	BS 3923: Part 1: 1986 (Level 2A, 2B & 3) BS EN 1714: 1998 + Amd. 14941 (Level A, B & C) BS EN ISO 17640: 2010 (Level A, B & C) BS EN ISO 17640: 2018 (Level A, B & C) in conjunction with the following specification(s): BS 2971: 1991 Section 7 BS 4515-1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 BS 5400-6: 1999 Cl. 5.5.2.4.2 BS EN 25817: 1992 Table 1 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2005) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b
	Visual examination	BS 5289: 1976 BS EN 970: 1997 BS EN ISO 17637: 2011 BS EN ISO 17637: 2016 in conjunction with the following specification(s): BS 2971: 1991 Section 7 BS 4515-1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 BS 5400-6: 1999 Cl. 5.5.2.4.1 BS 7123: 1989 Table 7 BS EN 25817: 1992 Table 1 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2005) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b
	Visual examination and bend test on stud connectors	<Visual examination as follows:> BS 5289: 1976 BS EN 970: 1997 BS EN ISO 17637: 2011 BS EN ISO 17637: 2016 <together with the following bend test method(s):> BS 5400-6: 1999 Cl. 5.5.4(b) Buildings Department Code of Practice for the Structural Use of Steel (2011) Cl. 14.3.7.3

Zenith Testing & Consultancy Limited
銳智檢測顧問有限公司

ADDRESS 地址	:	Room 12, 13/F, Block A, New Trade Plaza, 6 On Ping Street, Shatin, New Territories, Hong Kong 香港新界沙田安平街 6 號新貿中心 A 座 13 樓 12 室
ENQUIRY 查詢	:	Mr LEE Chi-wai, Laboratory Manager 李志偉先生，實驗室經理
TELEPHONE 電話	:	2146 8198
FAX 傳真	:	2146 8298
E-MAIL 電郵	:	admin@zenithtest.com.hk
CLIENTELE 服務對象	:	Public 公眾

Zenith Testing & Consultancy Limited
銳智檢測顧問有限公司

ADDRESS **地址**	:	Room 12, 13/F, Block A, New Trade Plaza, 6 On Ping Street, Shatin, New Territories, Hong Kong 香港新界沙田安平街 6 號新貿中心 A 座 13 樓 12 室
ACCREDITED TEST CATEGORY **認可測試類別**	:	Construction Materials 建築材料

Zenith Testing & Consultancy Limited
銳智檢測顧問有限公司
Room 12, 13/F, Block A, New Trade Plaza, 6 On Ping Street, Shatin, New Territories, Hong Kong.
香港新界沙田安平街 6 號新貿中心 A 座 13 樓 12 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Structural fixings	Tensile proof load test of anchors, dowel bars, channel inserts and embed plates by incremental loading in the force range 10 kN – 200 kN	BS 5080: Part 1: 1993 Cl. 6, 7.1.1 & 7.1.3 with modifications
	Tensile proof load test of drilled-in anchors used for cantilevered structure/hanger/curtain wall remedial works by incremental loading in the force range 10 kN – 200 kN	Buildings Department PNAP APP-169 (Oct 2023) App. A
	Tensile proof load test of drilled-in anchors used for works other than cantilevered structure/hanger/ curtain wall remedial works in the force range 10 kN – 200 kN	Buildings Department PNAP APP-169 (Oct 2023) App. B
Welds (non-destructive)	Liquid penetrant test (Colour contrast method)	BS 6443: 1984 BS EN 571-1: 1997 BS EN ISO 3452-1: 2013 in conjunction with the following specification(s): BS 4515-1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 BS EN ISO 23277: 2015 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b ISO 5817: 2014 Table 1
	Magnetic particle test (Magnetic flow method, colour contrast technique using permanent magnets and A.C. yokes)	BS 6072: 1981 BS EN 1290: 1998 + A2: 2003 BS EN ISO 9934-1: 2001 + A1: 2003 BS EN ISO 9934-1: 2016 BS EN ISO 17638: 2009 BS EN ISO 17638: 2016 in conjunction with the following specification(s): BS 4515-1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 BS EN ISO 23278: 2015 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b ISO 5817: 2014 Table 1

Zenith Testing & Consultancy Limited
銳智檢測顧問有限公司
Room 12, 13/F, Block A, New Trade Plaza, 6 On Ping Street, Shatin, New Territories, Hong Kong.
香港新界沙田安平街 6 號新貿中心 A 座 13 樓 12 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Welds (non-destructive) (cont'd)	Ultrasonic test (Butt welds in plates & pipes, 'T'-joint welds and nozzle welds)	BS 3923: Part 1: 1986 (Level 1, 2a, 2b & 3) BS EN 1714: 1998 + Amd. 10286, 13990 & 14941 (Level A, B & C) BS EN ISO 17640: 2010 (Level A, B & C) BS EN ISO 17640: 2018 (Level A, B & C) in conjunction with the following specification(s): BS 4515-1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 BS EN ISO 11666: 2018 Tables A1 – A3 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b ISO 5817: 2014 Table 1
	Visual examination	BS 5289: 1976 BS EN 970: 1997 BS EN ISO 17637: 2011 BS EN ISO 17637: 2016 in conjunction with the following specification(s): BS 4515-1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b ISO 5817: 2014 Table 1

FSE Environmental Laboratory Services Limited
豐盛環境化驗服務有限公司

ADDRESS 地址	:	Portion B, 6/F, Hop Shi Factory Building, 29-31 Lee Chung Street, Chai Wan, Hong Kong. 香港柴灣利眾街29–31號合時工廠大厦6樓B室
ENQUIRY 查詢	:	Mr Albert CHEW Chun-ho, Technical Manager 趙俊豪先生，技術經理
TELEPHONE 電話	:	2808 2711
FAX 傳真	:	2258 0909
E-MAIL 電郵	:	fselab@fsenv.com.hk
CLIENTELE 服務對象	:	Public 公眾

FSE Environmental Laboratory Services Limited
豐盛環境化驗服務有限公司

ADDRESS **地址**	:	Portion B, 6/F, Hop Shi Factory Building, 29-31 Lee Chung Street, Chai Wan, Hong Kong. 香港柴灣利眾街 29–31 號合時工廠大厦 6 樓 B 室
ACCREDITED TEST CATEGORY **認可測試類別**	:	Chemical Testing 化學測試 Environmental Testing 環境測試

FSE Environmental Laboratory Services Limited
豐盛環境化驗服務有限公司
Portion B, 6/F, Hop Shi Factory Building, 29-31 Lee Chung Street, Chai Wan, Hong Kong
香港柴灣利眾街 29–31 號合時工廠大廈 6 樓 B 室

Chemical Testing 化學測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Sodium hypochlorite solution	Available chlorine	GB 19106-2013 Cl. 5.3
	Free caustic alkali (as NaOH)	GB 19106-2013 Cl. 5.4

FSE Environmental Laboratory Services Limited
豐盛環境化驗服務有限公司
Portion B, 6/F, Hop Shi Factory Building, 29-31 Lee Chung Street, Chai Wan, Hong Kong
香港柴灣利眾街 29–31 號合時工廠大廈 6 樓 B 室

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Indoor air quality testing	Extractable components collected in passive samplers:-	
	- Formaldehyde	In house method STP16 (HPLC-DAD)
	- Nitrogen dioxide	In house method STP17 (UV-Vis Spectrophotometer)

FSE Environmental Laboratory Services Limited
豐盛環境化驗服務有限公司
Portion B, 6/F, Hop Shi Factory Building, 29-31 Lee Chung Street, Chai Wan, Hong Kong
香港柴灣利眾街 29–31 號合時工廠大厦 6 樓 B 室

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Water and wastewater	Physical examination:-	
	- pH	APHA 23e 4500 – H^+ B
	- Conductivity	APHA 22e 2510 B
	- Turbidity	APHA 23e 2130 B
	- Total Alkalinity	APHA 22e 2320 B
	- Total Suspended Solids	APHA 22e 2540 D
	- Total Dissolved Solids	APHA 22e 2540 C
	- Total Hardness (as $CaCO_3$)	APHA 22e 2340 C (EDTA Titrimetric Method)
	- Calcium Hardness	APHA 22e 3500 – Ca B (EDTA Titrimetric Method)
	- Color	APHA 22e 2120 B < ***Excluding the following*** > Clause 1D
	Non-metallic constituents:-	
	- Chlorine (Total residual)	APHA 22e 4500 – Cl G
	- Chlorine (Free residual)	APHA 22e 4500 – Cl G
	- Chloride	APHA 22e 4500 – Cl^- B (Argentometric Method)
	- Sulphate	APHA 22e 4500 – SO_4^{2-} E (Turbidimetric Method)
Water	- Chloride	In house method STP22 (Ion Chromatography)
	- Sulphate	In house method STP22 (Ion Chromatography)

FSE Environmental Laboratory Services Limited
豐盛環境化驗服務有限公司
Portion B, 6/F, Hop Shi Factory Building, 29-31 Lee Chung Street, Chai Wan, Hong Kong
香港柴灣利眾街 29–31 號合時工廠大廈 6 樓 B 室

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Water and wastewater (cont'd)	Organic Pollutants:-	
	- Chemical Oxygen Demand (COD)	APHA 22e 5220 D
	- Biochemical Oxygen Demand (5 days)	BS 6068-2.63:1998 BS EN 1899-1:1998
	- Oil and grease	APHA 23e 5520 B
	- Nonionic surfactants (as BiAS)	BS 6068-2.24:1986 ISO 7875-2:1984
	- Anionic surfactants (as MBAS)	BS EN 903:1994 BS 6068-2.23:1994
	- Total surfactants (anionic and nonionic)	In-house method STP20 & STP21 (By Calculation)
	Trace Metals:-	
Natural water, treated water	- Total Iron	APHA 22e 3500 – Fe B (Phenanthroline Method)
	Trace Metals (Total recoverable):-	
Tap water	- Digestion procedure	In house method STP15 (Acid Digestion)
	- Aluminum, Arsenic, Antimony, Barium, Boron, Cadmium, Calcium, Chromium, Copper, Lead, Iron, Mercury, Nickel, Silver, Zinc, Sodium, Manganese	In house method STP15 (ICPMS)
Saline water	Physical Examination:-	
	- Total Suspended Solids (TSS) dried at 103-105°C	APHA 22e 2540 D

FSE Environmental Laboratory Services Limited
豐盛環境化驗服務有限公司
Portion B, 6/F, Hop Shi Factory Building, 29-31 Lee Chung Street, Chai Wan, Hong Kong
香港柴灣利眾街 29–31 號合時工廠大廈 6 樓 B 室

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Microbiological examinations:-	
Collectate sampled by air sampler	- Airborne bacteria count (number of colonies & corrected of colonies on agar plate) (30°C for 2 days)	In house method MSTP03
Collectate samples on agar plate	- Airborne bacteria count (number of colonies on agar plate) (30°C for 2 days)	In house method MSTP03
Water and wastewater	- *E. coli*	DoE (1983) The Bacteriological Examination of Drinking Water Supplies, 1982 (Membrane Filtration Procedure: Section 7.8, 7.9.4.2; Bacterial Confirmation: Section 7.9.4.4 and *in situ* urease test)
	- Total *Coliform*	DoE (1983) The Bacteriological Examination of Drinking Water Supplies, 1982 (Membrane Filtration Procedure: Section 7.8, 7.9.4.1; Bacterial Confirmation: Section 7.9.4.3)
	- Faecal *Coliform*	DoE (1983) The Bacteriological Examination of Drinking Water Supplies, 1982 (Membrane Filtration Procedure: Section 7.8, 7.9.4.2; Bacterial Confirmation: Section 7.7.6.3)
	- Heterotrophic plate count (Colony count at 35°C and 37°C)	APHA 22e 9215A & B
Tap water	- Detection of *Salmonella spp.*	BS EN ISO 19250:2013 (Membrane Filtration)
Water, wastewater and cooling tower water	- *Legionellae spp.* including *Legionella pneumophila*	AS/NZS 3896:1998 AS/NZS 3896:2008 AS 3986:2017
Treated bathing water, water for human use and consumption	- *Legionellae spp.* Including *Legionella pneumophila*	ISO 11731-2:2004 BS EN ISO 11731-2:2008 BS 6068-4.18:2004 ISO 11731:2017 (E) (Membrane Filtration) BS EN ISO 11731:2017 (Membrane Filtration)
Swimming pool water	- Enumeration of Pseudomonas aeruginosa	BS EN ISO 16266:2008 (Membrane Filtration)
	- Enumeration of Staphylococcus aureus	APHA 23e 9213B Section 6

SENSE Engineering Services Co., Ltd.
深圳市神視檢驗有限公司

ADDRESS 地址	:	Room 208, Chiwan Petroleum Building, No.6, ChiWan 5th Road, Nanshan District, Shenzhen, China 深圳市南山區赤灣五路六號赤灣石油大厦 208
ENQUIRY 查詢	:	Mrs Michelle ZHONG, General Manager 鍾歡女士，總經理
TELEPHONE 電話	:	0755-2641 6816, 13825269804
FAX 傳真	:	---
E-MAIL 電郵	:	wyy@sense-cn.com
WEBSITE ADDRESS 網址	:	http://sense-cn.com
CLIENTELE 服務對象	:	Public 公眾

SENSE Engineering Services Co., Ltd.
深圳市神視檢驗有限公司

ADDRESS **地址**	:	Room 208, Chiwan Petroleum Building, No.6, ChiWan 5th Road, Nanshan District, Shenzhen, China 中國深圳市南山區赤灣五路六號赤灣石油大厦 208
ACCREDITED TEST CATEGORY **認可測試類別**	:	Construction Materials 建築材料

SENSE Engineering Services Co., Ltd.
深圳市神視檢驗有限公司
Room 208, Chiwan Petroleum Building, No.6, ChiWan 5th Road, Nanshan District, Shenzhen, China
中國深圳市南山區赤灣五路六號赤灣石油大厦 208

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Coating	Dry-film coating thickness	BS EN ISO 1461: 2009 Cl. 6.2 BS EN ISO 1461: 2022 Cl. 6.2 ISO 2178: 2016 (Magnetic method) ISO 2808: 2007 (Method 7C - Magnetic-induction) ISO 2808: 2019 (Method 7B - Magnetic-flux) ISO 19840: 2012 SSPC-PA 2: 2022
	Pull-off test of coating	ASTM D4541-17 BS EN ISO 4624: 2016 Cl. 8.4.2
Metallic materials (non-destructive)	Ultrasonic test of metallic materials (reflection method)	BS 5996: 1993 BS EN 10160: 1999 BS EN 10306: 2002 in conjunction with the following specification: BS EN 10164: 2018 Cl. 6.2
Welds (non-destructive)	Liquid penetrant test (Colour contrast method)	BS EN 571-1: 1997 BS EN ISO 3452-1: 2013 BS EN ISO 3452-1: 2021 in conjunction with following specification(s): BS 4515-1: 2009 Table 9 BS EN ISO 5817: 2014 Table 1 BS EN ISO 5817: 2023 Table 1 BS EN ISO 23277: 2015 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b Hong Kong International Airport General Material & Workmanship Specification (GMWS) Issue No. 5 (2011) Vol. 1 – Civil & Structural Works Section 22.6.22

SENSE Engineering Services Co., Ltd.
深圳市神視檢驗有限公司
Room 208, Chiwan Petroleum Building, No.6, ChiWan 5th Road, Nanshan District, Shenzhen, China
中國深圳市南山區赤灣五路六號赤灣石油大厦 208

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Welds (non-destructive) (cont'd)	Magnetic particle test (magnetic flow method, colour contrast technique using permanent magnets and A.C. yokes)	BS 6072: 1981 BS EN 1290: 1998 BS EN ISO 9934-1: 2001 BS EN ISO 9934-1: 2015 BS EN ISO 9934-1: 2016 BS EN ISO 17638: 2009 BS EN ISO 17638: 2016 in conjunction with the following specification(s): BS 4515-1: 2009 Table 9 BS EN ISO 5817: 2014 Table 1 BS EN ISO 5817: 2023 Table 1 BS EN ISO 23278: 2015 Table 1 & Cl. 5 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b Hong Kong International Airport General Materials and Workmanship Specification (GMWS) Issue No. 5 (2011) Vol. 1 – Civil and Structural Works Section 22.6.22
	Ultrasonic test (Butt welds in plates and pipes, 'T'-joint welds, nozzle welds and node welds)	BS 3923: Part 1: 1986 (Level 1, 2A, 2B & 3) BS EN 1714: 1998 (Level A, B & C) BS EN ISO 17640: 2010 (Level A, B & C) BS EN ISO 17640: 2018 (Level A, B & C) in conjunction with the following specification(s): BS 4515-1: 2009 Table 9 BS EN ISO 5817: 2014 Table 1 BS EN ISO 5817: 2023 Table 1 BS EN ISO 11666: 2018 Cl. 6 & Annex A Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b Hong Kong International Airport General Materials and Workmanship Specification (GMWS) Issue No. 5 (2011) Vol. 1 – Civil and Structural Works Section 22.6.22
	Visual examination	BS 5289: 1976 BS EN 970: 1997 BS EN ISO 17637: 2011 BS EN ISO 17637: 2016 in conjunction with the following specification(s): BS 4515-1: 2009 Table 9 BS EN ISO 5817: 2014 Table 1 BS EN ISO 5817: 2023 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b Hong Kong International Airport General Materials and Workmanship Specification (GMWS) Issue No. 5 (2011) Vol. 1 – Civil and Structural Works Section 22.6.22

SENSE Engineering Services Co., Ltd.
深圳市神視檢驗有限公司
Room 208, Chiwan Petroleum Building, No.6, ChiWan 5th Road, Nanshan District, Shenzhen, China
中國深圳市南山區赤灣五路六號赤灣石油大厦 208

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Welds (non-destructive) (cont'd)	Visual examination and bend test on stud connectors	<Visual examination as follows:> BS 5289: 1976 BS EN 970: 1997 BS EN ISO 17637: 2011 BS EN ISO 17637: 2016 <together with the following bend test method(s):> BS 5400-6: 1999 + Corr. 1: 2002 Cl. 5.5.4(b) BS EN ISO 14555: 2017 Cl. 11.2, 11.3 (excluding Torque wrench method), 12.2 & 12.3 Buildings Department Code of Practice for the Structural Use of Steel (2011) Cl. 14.3.7.3

Japan Recreation and Miscellaneous Goods Safety Laboratory – Hong Kong Office (MGSL HK)
一般財團法人日本文化用品安全試驗所 – 香港事業所（MGSL HK)

ADDRESS 地址	:	18/A1, Block 1, Tai Ping Industrial Centre, 57 Ting Kok Road, Tai Po, N.T., Hong Kong. 香港新界大埔汀角道57號太平工業中心，第一座18樓A1
ENQUIRY 查詢	:	Ms Eva CHEUNG Poi Yen, General Manager
TELEPHONE 電話	:	3525 0470
FAX 傳真	:	3525 0471
E-MAIL 電郵	:	c-eva@mgsl.or.jp
WEBSITE ADDRESS 網址	:	www.mgsl.com.hk
CLIENTELE 服務對象	:	Public testing services 公眾測試服務

Japan Recreation and Miscellaneous Goods Safety Laboratory – Hong Kong Office (MGSL HK)
一般財團法人日本文化用品安全試驗所 – 香港事業所（MGSL HK）

ADDRESS
地址 : 18/F A1, Block 1, Tai Ping Industrial Centre, 57 Ting Kok Road, Tai Po, New Territories, Hong Kong
香港新界大埔汀角道 57 號太平工業中心第一座 18 樓 A1

ACCREDITED TEST CATEGORIES
認可測試類別 : Food 食品
Toys and Children's Products 玩具及兒童產品

Japan Recreation and Miscellaneous Goods Safety Laboratory – Hong Kong Office (MGSL HK)
一般財團法人日本文化用品安全試驗所 – 香港事業所（MGSL HK）
18/F A1, Block 1, Tai Ping Industrial Centre, 57 Ting Kok Road, Tai Po, New Territories, Hong Kong
香港新界大埔汀角道 57 號太平工業中心第一座 18 樓 A1

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Toxicology tests :-	
Food containers (glass, porcelain and enameled ware)		Notification No. 370 Specifications and Standards for Foods, Food Additives, etc., Part 3 Implements, Containers and Packaging, D Material-specific specifications for Implements, Containers, and Packaging, and Raw Materials (Ministry of Health and Welfare, 1959) as updated by Notification No. 416 on 31st July 2008 by Ministry of Health, Labour and Welfare, based on the Food Sanitation Act (Act No. 233, Ministry of Health and Welfare of Japan, 1947) *Test procedure for compliance testing* - Specification, Standards and Testing Methods for Foodstuffs, Implements, Containers and Packaging, Toys, Detergents, January 2009
	- Leachable cadmium and lead	Part II D-1

Japan Recreation and Miscellaneous Goods Safety Laboratory – Hong Kong Office (MGSL HK)
一般財團法人日本文化用品安全試驗所 – 香港事業所（MGSL HK）
18/F A1, Block 1, Tai Ping Industrial Centre, 57 Ting Kok Road, Tai Po, New Territories, Hong Kong
香港新界大埔汀角道 57 號太平工業中心第一座 18 樓 A1

Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests :-	Notification No. 370 Specifications and Standards for Foods, Food Additives, etc. Part 4 Toys, Ministry of Health and Welfare, 28 Dec 1959, as updated by Ministry of Health, Labour and Welfare Notification No. 153, 31 March 2008, based on the Food Sanitation Act (Act No. 233, Ministry of Health and Welfare of Japan, 1947) *Test procedure for compliance testing* - Specification, Standards and Testing Methods for Foodstuffs, Implements, Containers and Packaging, Toys, Detergents, January 2009
Decals	- Heavy metals, - Arsenic	Part III A-1 & Part II B-4 Part III A-1 & Part II B-7
Origami paper	- Heavy metals, - Arsenic	Part III A-2 & Part III A-1 (2)a & Part II B-4 Part III A-2 & Part III A-1 (2)b & Part II B-7
Coating film of toys	- Cadmium, - Lead, - Arsenic	Part III A-4 & Part II B-9
Coating film coated by using polyvinyl chloride	- Potassium permanganate consumption, - Residue on evaporation	Part III A-5 & Part II B-1 Part III A-5 & Part II B-5
Parts (excluding coating film) manufactured using materials mainly composed of polyvinyl chloride	- Potassium permanganate consumption, - Heavy metals, - Cadmium, - Residue on evaporation, - Arsenic	Part III A-6 & Part III A-5 (2)a & Part II B-1 Part III A-6 & Part III A-1(2)a & Part II B-4 Part III A-6 & Part II B-9 Part III A-6 & Part III A-5(2)b & Part II B-5 Part III A-6 & Part III A-1(2)b & Part II B-7
Parts (excluding coating film) manufactured using materials mainly composed of polyethylene	- Potassium permanganate consumption, - Heavy metals, - Residue on evaporation, - Arsenic	Part III A-9 & Part III A-5 (2)a & Part II B-1 Part III A-9 & Part III A-1 (2)a & Part II B-4 Part III A-9 & Part III A-5(2)b & Part II B-5 Part III A-9 & Part III A-1(2)b & Part II B-7
Metallic accessories and toys that might be swallowed by infants and small children	- Lead	Part III A-10 & Part II B-9
Synthetic resin-based coloring agents in the manufacture of toys	- Colouring agent	Part III B

Japan Recreation and Miscellaneous Goods Safety Laboratory – Hong Kong Office (MGSL HK)
一般財團法人日本文化用品安全試驗所 – 香港事業所（MGSL HK）
18/F A1, Block 1, Tai Ping Industrial Centre, 57 Ting Kok Road, Tai Po, New Territories, Hong Kong
香港新界大埔汀角道 57 號太平工業中心第一座 18 樓 A1

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Chemical tests :- (cont'd)	Notification No. 370 Specifications and Standards for Foods, Food Additives, etc. Part 4 Toys, Ministry of Health and Welfare, 28 Dec 1959, as updated by Ministry of Health, Labour and Welfare Notification No. 153, 31 March 2008, and Notification No. 336, 6 September 2010 based on the Food Sanitation Act (Act No. 233, Ministry of Health and Welfare of Japan, 1947) Administrative Circular, 11 November 2010, Department of Food Safety, Pharmaceutical and Food Safety Bureau, Ministry of Health, Labour and Welfare
All designated toys that have parts made from plasticized materials	- BBP, DEHP, DBP	Japan Food Sanitation Law, Notice 0906 No. 4 of 2010, Ministry of Health, Labour and Welfare
Part intended to come into direct contact with infant's mouth: Parts made from plasticized materials, in which DIDP, DINP or DNOP are contained as raw material	- DIDP, DINP, DNOP	Japan Food Sanitation Law, Notice 0906 No. 4 of 2010, Ministry of Health, Labour and Welfare
Toys – paint and similar surface-coating materials	- Total lead content	ASTM F963-17 Cl. 4.3.5.1 (1) *Test procedure for compliance testing* - CPSC Test method: CPSC-CH-E1003-09.1 Standard Operating Procedure for Determining Lead (Pb) in paint and Other Similar Surface Coating, February 25, 2011
	- Migration of the elements Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	ASTM F963-17 Cl. 4.3.5.1 (2) *Test procedure for compliance testing* Cl. 8.3.2 - 8.3.4

Japan Recreation and Miscellaneous Goods Safety Laboratory – Hong Kong Office (MGSL HK)
一般財團法人日本文化用品安全試驗所 – 香港事業所（MGSL HK）
18/F A1, Block 1, Tai Ping Industrial Centre, 57 Ting Kok Road, Tai Po, New Territories, Hong Kong
香港新界大埔汀角道 57 號太平工業中心第一座 18 樓 A1

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Chemical tests :- (cont'd)	
Toys – substrate materials (excluding children's Jewelry)	- Total lead content	ASTM F963-17 Cl. 4.3.5.2 (2)(a) *Test procedure for compliance testing* - CPSC Test method: CPSC-CH-E1001-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Children's Metal Products (Including Children's Metal Jewelry), Revision November 15, 2012 **<Excluding the following>** XRF spectrometry *Test procedure for compliance testing* - CPSC Test method: CPSC-CH-E1002-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Non-Metal Children's Products, Revision November 15, 2012 **Excluding the following>** XRF spectrometry
Toys – substrate materials (excluding children's Jewelry, liquid form and those containing grease, oil, wax or similar materials)	- Migration of the elements Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	ASTM F963-17 Cl. 4.3.5.2 (2) (b) *Test procedure for compliance testing* - Cl. 8.3.5
Metallic toys or metallic toy components	- Extractable Cadmium	ASTM F963-17 Cl. 4.3.5.2 (2)(c) *Test procedure for compliance testing* - Cl. 8.3.5.5 (3) and CPSC Test method: CPSC-CH-E1004-11 Standard Operating Procedure for Determining Cadmium (Cd) Extractability from Children's Metal Jewelry, February 03, 2011 **<Excluding the following>** Cl. 8, 9 and 10

Japan Recreation and Miscellaneous Goods Safety Laboratory – Hong Kong Office (MGSL HK)
一般財團法人日本文化用品安全試驗所 – 香港事業所（MGSL HK）
18/F A1, Block 1, Tai Ping Industrial Centre, 57 Ting Kok Road, Tai Po, New Territories, Hong Kong
香港新界大埔汀角道 57 號太平工業中心第一座 18 樓 A1

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Chemical tests :- (cont'd)	
Toys and other articles intended for use by children – paint and other similar surface-coating materials	- Total lead content	US Public Law 110 – 314 Consumer Product Safety Improvement Act 2008 US 16 CFR 1303 *Test procedure for compliance testing* - CPSC Test method: CPSC-CH-E1003-09.1 Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coating, February 25, 2011
Children' s metal products	- Total lead content	US Public Law 110 – 314 Consumer Product Safety Improvement Act 2008 *Test procedure for compliance testing* - CPSC Test method: CPSC-CH-E1001-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Children's Metal Products (Including Children's Metal Jewelry), Revision November 15, 2012 **<Excluding the following>** XRF spectrometry
Children's non-metal products	- Total lead content	*Test procedure for compliance testing* - CPSC Test method: CPSC-CH-E1002-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Non-metal Children's Products, Revision November 15, 2012 **<Excluding the following>** XRF spectrometry
Toys and childcare articles	- Benzyl Butyl phthalate (BBP) - Dibutyl phthalate (DBP) - Diisobutyl phthalate (DIBP) - Diisononyl phthalate (DINP) - Dicyclohexyl phthalate (DCHP) - Di-(2-ethylhexyl) phthalate (DEHP) - Di-n-pentyl phthalate (DPENP) - Di-n-hexyl phthalate (DHEXP)	US Public Law 110 – 314 Consumer Product Safety Improvement Act 2008 US 16 CFR Part 1307 *Test procedure for compliance testing* - CPSC Test method: CPSC-CH-C1001-09.4 Standard Operating Procedure for Determination of Phthalates, January 17, 2018

Japan Recreation and Miscellaneous Goods Safety Laboratory – Hong Kong Office (MGSL HK)
一般財團法人日本文化用品安全試驗所 – 香港事業所（MGSL HK）
18/F A1, Block 1, Tai Ping Industrial Centre, 57 Ting Kok Road, Tai Po, New Territories, Hong Kong
香港新界大埔汀角道 57 號太平工業中心第一座 18 樓 A1

Toys and Children's Products 玩具及兒童產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Flammability tests :-	
Toys	- Flammability tests	16 CFR 1500.44 **<*Excluding the following*>** tests on granules, powders and pastes
Toys	- Flammability tests	ASTM F963-17 Section 4.2 **<*Excluding the following*>** Annex A6
	Physical and mechanical tests :-	
Toys	- Physical and mechanical tests - Safety requirements :-	ASTM F963-17 Section 4.3.7, 4.6, 4.7, 4.8, 4.9, 4.10, 4.11, 4.12, 4.14, 4.16, 4.17, 4.18, 4.22, 4.23, 4.24, 4.26, 4.27, 4.28, 4.31, 4.32, 4.33, 4.34, 4.35, 4.36, 4.38 **< *Excluding the following* >** Section 4.6.2 and 4.14.4; tests for large and bulky toys
	- Labeling requirements	Section 5
	- Instructional literature	Section 6
	- Producer's markings	Section 7
	- Test methods	Section 8
Toys	Safety test	Federal Hazardous Substances Act Regulations 16 CFR 1500.48 16 CFR 1500.49 16 CFR 1501 16 CFR 1510

Wai Fat Pharmaceutical Laboratory Limited
威發藥品檢定中心有限公司

ADDRESS 地址	:	2/F, Block F, East Sun Industrial Centre, 16 Shing Yip Street, Kwun Tong, Kowloon, Hong Kong. 香港九龍觀塘成業街16號怡生工業中心F座2樓
ENQUIRY 查詢	:	Ms Agnes CHEUNG Ching-man, Quality Control Manager 張靜雯小姐, 品質控制經理
TELEPHONE 電話	:	2173 6051
FAX 傳真	:	2787 0168
E-MAIL 電郵	:	agnes.cheung@wspharma.com
CLIENTELE 服務對象	:	Public 公眾

Wai Fat Pharmaceutical Laboratory Limited
威發藥品檢定中心有限公司

ADDRESS **地址**	:	2/F, Block F, East Sun Industrial Centre, 16 Shing Yip Street, Kwun Tong, Kowloon, Hong Kong. 香港九龍觀塘成業街 16 號怡生工業中心 F 座 2 樓
ACCREDITED TEST CATEGORY **認可測試類別**	:	Chinese Medicine 中藥

Wai Fat Pharmaceutical Laboratory Limited
威發藥品檢定中心有限公司

2/F, Block F, East Sun Industrial Centre, 16 Shing Yip Street, Kwun Tong, Kowloon, Hong Kong.
香港九龍觀塘成業街 16 號怡生工業中心 F 座 2 樓

Chinese Medicine 中藥

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Proprietary Chinese Medicines and Chinese Herbal Medicines	Toxic elements :- Arsenic, Cadmium, Lead, Mercury	In-house Method MA/HOKC/HM0001 (ICP-OES)
	Copper	In-house Method MA/HOKC/HM0002 (ICP-OES)
	Pesticides residues:- - Organochlorine pesticides: Aldrin, Dieldrin, Endrin, cis-Chlordane, trans-Chlordane, Oxychlordane, Heptachlor, Heptachlor epoxide B, Hexachlorocyclohexane isomers (alpha-, beta- and delta-BHC), Lindane, Hexachlorobenzene, Methyl pentachlorophenyl sulphide, Pentachloroaniline, Quintozene (pentachloronitrobenzene), 2,4'-DDT, 4,4'-DDT, 4,4'-DDE, 4,4'-DDD	In-house Method MA/HOKC/PE0001 (GC-ECD & confirmation by GC-MSD) and In-house Method MA/HOKC/PE0002 (GC-ECD & confirmation by GC-MSD)

Wai Fat Pharmaceutical Laboratory Limited
威發藥品檢定中心有限公司

2/F, Block F, East Sun Industrial Centre, 16 Shing Yip Street, Kwun Tong, Kowloon, Hong Kong.
香港九龍觀塘成業街 16 號怡生工業中心 F 座 2 樓

Chinese Medicine 中藥		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Proprietary Chinese Medicines (Liniments)	- Organochlorine pesticides: Aldrin, Dieldrin, Endrin, cis-Chlordane, trans-Chlordane, Oxychlordane, Heptachlor, Heptachlor epoxide B, Hexachlorocyclohexane isomers (alpha-, beta- and delta-BHC), Lindane, Hexachlorobenzene, Methyl pentachlorophenyl sulphide, Pentachloroaniline, Quintozene (pentachloronitrobenzene), 2,4'-DDT, 4,4'-DDT, 4,4'-DDE, 4,4'-DDD	In-house Method MA/HOKC/PE0003 (GC-ECD & confirmation by GC-MSD)
	Pharmaceutical products :- Eucalyptol	In-house Method MA/HOKC/GA0002 (GC-FID & confirmation by GC-MSD)
	Methyl Salicylate	In-house Method MA/HOKC/GA0001 (GC-FID & confirmation by GC-MSD)

Wai Fat Pharmaceutical Laboratory Limited
威發藥品檢定中心有限公司

2/F, Block F, East Sun Industrial Centre, 16 Shing Yip Street, Kwun Tong, Kowloon, Hong Kong.
香港九龍觀塘成業街 16 號怡生工業中心 F 座 2 樓

Chinese Medicine 中藥		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Proprietary Chinese medicine (pCm)	Microbiological examinations:-	
Solid preparations for oral administration (Non-sterile pCm products without crude drug powder) 固體口服給藥製劑 (非無菌不含藥材原粉的中藥製劑)	Microbial Limits for Non-sterile Pharmaceutical Products 非無菌药品微生物限度標準	Pharmacopoeia of the People's Republic of China 2020, Volume IV, Part 1107 Cl.3 中華人民共和國藥典 2020 年版四部 1107 段點 3 Pharmacopoeia of the People's Republic of China 2015, Volume IV, Part 1107 Cl.3 中華人民共和國藥典 2015 年版四部 1107 段點 3
	- Microbial Enumeration Tests 微生物計數法 Total Aerobic Microbial Count 需氧菌總數 Total Molds and Yeasts Count 霉菌和酵母菌總數	*Test Procedures for compliance testing*: Pharmacopoeia of the People's Republic of China 2020, Volume IV, Part 1105 中華人民共和國藥典 2020 年版四部 1105 段 Pharmacopoeia of the People's Republic of China 2015, Volume IV, Part 1105 中華人民共和國藥典 2015 年版四部 1105 段
	- - Tests for Specified Microorganisms 控制菌檢查法 *Escherichia coli* 大腸埃希菌 *Salmonella* spp. 沙門菌	*Test Procedures for compliance testing*: Pharmacopoeia of the People's Republic of China 2020, Volume IV, Part 1106 中華人民共和國藥典 2020 年版四部 1106 段 Pharmacopoeia of the People's Republic of China 2015, Volume IV, Part 1106 中華人民共和國藥典 2015 年版四部 1106 段
	-	

Wai Fat Pharmaceutical Laboratory Limited
威發藥品檢定中心有限公司

2/F, Block F, East Sun Industrial Centre, 16 Shing Yip Street, Kwun Tong, Kowloon, Hong Kong.
香港九龍觀塘成業街 16 號怡生工業中心 F 座 2 樓

Chinese Medicine 中藥

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Microbiological examinations (cont'd):-	
Preparations for cutaneous application, excluding those used for surgery, severe burns and severe trauma – Liniment (Non-sterile pCm products without crude drug powder) 非用於手術、嚴重燒傷、嚴重創傷的其他局部給藥製劑 – 搽劑 (非無菌不含藥材原粉的中藥製劑)	Microbial Limits for Non-sterile Pharmaceutical Products 非無菌药品微生物限度標準	Pharmacopoeia of the People's Republic of China 2020, Volume IV, Part 1107 Cl.3 中華人民共和國藥典 2020 年版四部 1107 段點 3 Pharmacopoeia of the People's Republic of China 2015, Volume IV, Part 1107 Cl.3 中華人民共和國藥典 2015 年版四部 1107 段點 3
	- Microbial Enumeration Tests 微生物計數法 Total Aerobic Microbial Count 需氧菌總數 Total Molds and Yeasts Count 霉菌和酵母菌總數	*Test Procedures for compliance testing*: Pharmacopoeia of the People's Republic of China 2020, Volume IV, Part 1105 中華人民共和國藥典 2020 年版四部 1105 段 Pharmacopoeia of the People's Republic of China 2015, Volume IV, Part 1105 中華人民共和國藥典 2015 年版四部 1105 段
	- Tests for Specified Microorganisms 控制菌檢查法 *Pseudomonas aeruginosa* 銅綠假單胞菌 *Staphylococcus aureus* 金黃色葡萄球菌	*Test Procedures for compliance testing*: Pharmacopoeia of the People's Republic of China 2020, Volume IV, Part 1106 中華人民共和國藥典 2020 年版四部 1106 段 Pharmacopoeia of the People's Republic of China 2015, Volume IV, Part 1106 中華人民共和國藥典 2015 年版四部 1106 段

Wai Fat Pharmaceutical Laboratory Limited
威發藥品檢定中心有限公司
2/F, Block F, East Sun Industrial Centre, 16 Shing Yip Street, Kwun Tong, Kowloon, Hong Kong.
香港九龍觀塘成業街 16 號怡生工業中心 F 座 2 樓

Chinese Medicine 中藥

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Microbiological examinations (cont'd):-	
Solid preparations for oral administration (Non-sterile pCm products with crude drug powder) 固體口服給藥製劑 (非無菌含藥材原粉的中藥製劑)	Microbial Limits for Non-sterile Pharmaceutical Products 非無菌药品微生物限度標準	Pharmacopoeia of the People's Republic of China 2020, Volume IV, Part 1107 Cl.4 中華人民共和國藥典 2020 年版四部 1107 段點 4 Pharmacopoeia of the People's Republic of China 2015, Volume IV, Part 1107 Cl.4 中華人民共和國藥典 2015 年版四部 1107 段點 4
	- Microbial Enumeration Tests 微生物計數法 Total Aerobic Microbial Count 需氧菌總數 Total Molds and Yeasts Count 霉菌和酵母菌總數	*Test Procedures for compliance testing*: Pharmacopoeia of the People's Republic of China 2020, Volume IV, Part 1105 中華人民共和國藥典 2020 年版四部 1105 段 Pharmacopoeia of the People's Republic of China 2015, Volume IV, Part 1105 中華人民共和國藥典 2015 年版四部 1105 段
	- Tests for Specified Microorganisms - 控制菌檢查法 *Escherichia coli* 大腸埃希菌 *Salmonella* spp. 沙門菌 Bile-tolerant Gram-negative Bacteria 耐膽鹽革蘭陰性菌	*Test Procedures for compliance testing*: Pharmacopoeia of the People's Republic of China 2020, Volume IV, Part 1106 <***Excluding the following***> *Pseudomonas aeruginosa* *Staphylococcus aureus* *Clostridium* *Candida albicans* 中華人民共和國藥典 2020 年版四部 1106 段 <***不包括***> 銅綠假單胞菌 金黃色葡萄球菌 梭菌 白色念珠菌 Pharmacopoeia of the People's Republic of China 2015, Volume IV, Part 1106 <***Excluding the following***> *Pseudomonas aeruginosa* *Staphylococcus aureus* *Clostridium* *Candida albicans* 中華人民共和國藥典 2015 年版四部 1106 段 <***不包括***> 銅綠假單胞菌 金黃色葡萄球菌 梭菌 白色念珠菌

Wai Fat Pharmaceutical Laboratory Limited
威發藥品檢定中心有限公司

2/F, Block F, East Sun Industrial Centre, 16 Shing Yip Street, Kwun Tong, Kowloon, Hong Kong.
香港九龍觀塘成業街 16 號怡生工業中心 F 座 2 樓

Chinese Medicine 中藥		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Microbiological examinations (cont'd):-	
Aqueous oral use (Non-sterile pCm products with crude drug powder) 液體口服給藥製劑 (非無菌含藥材原粉的中藥製劑)	- Tests for Specified Microorganisms - 控制菌檢查法 Bile-tolerant Gram-negative Bacteria 耐膽鹽革蘭陰性菌	Pharmacopoeia of the People's Republic of China 2020, Volume IV, Part 1106 <***Excluding the following***> *Escherichia coli* *Salmonella* spp. *Pseudomonas aeruginosa* *Staphylococcus aureus* *Clostridium* *Candida albicans* 中華人民共和國藥典 2020 年版四部 1106 段 <***不包括***> 大腸埃希菌 沙門菌 銅綠假單胞菌 金黃色葡萄球菌 梭菌 白色念珠菌 Pharmacopoeia of the People's Republic of China 2015, Volume IV, Part 1106 <***Excluding the following***> *Escherichia coli* *Salmonella* spp. *Pseudomonas aeruginosa* *Staphylococcus aureus* *Clostridium* *Candida albicans* 中華人民共和國藥典 2015 年版四部 1106 段 <***不包括***> 大腸埃希菌 沙門菌 銅綠假單胞菌 金黃色葡萄球菌 梭菌 白色念珠菌
	- - - - - -	

Wai Fat Pharmaceutical Laboratory Limited
威發藥品檢定中心有限公司

2/F, Block F, East Sun Industrial Centre, 16 Shing Yip Street, Kwun Tong, Kowloon, Hong Kong.
香港九龍觀塘成業街 16 號怡生工業中心 F 座 2 樓

Chinese Medicine 中藥

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Microbiological examinations (cont'd):-	
Prepared pieces for oral precious powder for oral directly, after soak 研粉口服用貴細飲片、直接口服及泡服飲片	- Tests for Specified Microorganisms 控制菌檢查法 Bile-tolerant Gram-negative Bacteria 耐膽鹽革蘭陰性菌 -	Pharmacopoeia of the People's Republic of China 2020, Volume IV, Part 1106 <***Excluding the following***> *Escherichia coli* *Salmonella* spp. *Pseudomonas aeruginosa* *Staphylococcus aureus* *Clostridium* *Candida albicans* 中華人民共和國藥典 2020 年版四部 1106 段 <***不包括***> 大腸埃希菌 沙門菌 銅綠假單胞菌 金黃色葡萄球菌 梭菌 白色念珠菌 Pharmacopoeia of the People's Republic of China 2015, Volume IV, Part 1106 <***Excluding the following***> *Escherichia coli* *Salmonella* spp. *Pseudomonas aeruginosa* *Staphylococcus aureus* *Clostridium* *Candida albicans* 中華人民共和國藥典 2015 年版四部 1106 段 <***不包括***> 大腸埃希菌 沙門菌 銅綠假單胞菌 金黃色葡萄球菌 梭菌 白色念珠菌
	-	

JFC Testing and Inspection Company Limited
緯德測試有限公司

ADDRESS 地址	:	Flat H, 12/F, Mai Luen Industrial Building, 23-31 Kung Yip Street, Kwai Chung, New Territories, Hong Kong 香港新界葵涌工業街 23-31 號美聯工業大廈 12 樓 H 室
ENQUIRY 查詢	:	Mr Franky LAM Ka-kit, General Manager 林家傑先生，總經理
TELEPHONE 電話	:	2997 7128
FAX 傳真	:	2152 1920
E-MAIL 電郵	:	info@jfctest.com
CLIENTELE 服務對象	:	Public 公眾

JFC Testing and Inspection Company Limited
鍏德測試有限公司

ADDRESS **地址**	:	Flat H, 12/F, Mai Luen Industrial Building, 23-31 Kung Yip Street, Kwai Chung, New Territories, Hong Kong 香港新界葵涌工業街 23-31 號美聯工業大廈 12 樓 H 室
ACCREDITED TEST CATEGORY **認可測試類別**	:	Construction Materials 建築材料

JFC Testing and Inspection Company Limited
緯德測試有限公司
Flat H, 12/F, Mai Luen Industrial Building, 23-31 Kung Yip Street, Kwai Chung, N.T., Hong Kong
香港新界葵涌工業街 23-31 號美聯工業大廈 12 樓 H 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Structural fixings	Tensile proof load test of anchors and dowel bars by incremental loading in the force range 1 kN – 100 kN	BS 5080 Part 1:1993 Cl. 6, 7.1.1 & 7.1.3 with with modification
	Tensile proof load test of drilled-in anchors used for cantilevered structure/hanger/curtain wall remedial works by incremental loading in the force range 5 kN – 100 kN	Buildings Department PNAP APP-169 (Oct 2023) App. A
	Tensile proof load test of drilled-in anchors used for works other than cantilevered structure/ hanger/curtain wall remedial works in the force range 3 kN – 100 kN	Buildings Department PNAP APP-169 (Oct 2023) App. B
	Tensile proof load test of cementitious or polymer based grouted bolts or dowels or reinforcing bars works in the force range 3 kN – 100 kN	Buildings Department PNAP APP-169 (Oct 2023) App. C
Welds (non-destructive)	Magnetic particle test (Magnetic flow method, colour contrast method using permanent magnets)	BS 6072: 1981 + Amd. 1986 BS EN 1290: 1998 + A2: 2003 BS EN ISO 9934-1: 2001 + A1: 2003 BS EN ISO 17638: 2009 BS EN ISO 17638: 2016 in conjunction with the following specifications: BS 4515-1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 BS EN ISO 5817: 2007 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b
	Ultrasonic test (Butt welds in plates and pipes, T-joint welds, nozzle welds and node welds)	BS 3923: Part 1: 1986 (Level 1, 2a, 2b and 3) BS EN 1714: 1998 + A1: 2002 (Level A, B, and C) BS EN ISO 17640: 2010 (Level A, B, and C) BS EN ISO 17640: 2018 (Level A, B, and C) in conjunction with the following specifications: BS 4515-1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 BS EN ISO 5817: 2007 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b

JFC Testing and Inspection Company Limited
緯德測試有限公司
Flat H, 12/F, Mai Luen Industrial Building, 23-31 Kung Yip Street, Kwai Chung, N.T., Hong Kong
香港新界葵涌工業街 23-31 號美聯工業大廈 12 樓 H 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Welds (non-destructive) (cont'd)	Visual examination	BS 5289: 1976 + Amd. 1983 BS EN 970: 1997 BS EN ISO 17637: 2011 BS EN ISO 17637: 2016 in conjunction with the following specifications: BS 4515-1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 BS EN ISO 5817: 2007 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b
	Visual examination and bend test on stud connectors	<Visual examination as follows:> BS 5289: 1976 + Amd. 1983 BS EN 970: 1997 BS EN ISO 17637: 2011 BS EN ISO 17637: 2016 < together with the following bend test method(s):> BS 5400 Part 6: 1999 Cl. 5.5.4(b) Buildings Department Code of Practice for the Structural Use of Steel (2011) Cl. 14.3.7.3

Quality Pro Test-Consult Limited
專業化驗有限公司

ADDRESS 地址	:	Unit 10, 5/F, Wah Wai Centre, 38-40 Au Pui Wan Street, Fotan, New Territories 新界沙田火炭坳背灣街38-40號華衛工貿中心5樓10室
ENQUIRY 查詢	:	Ms Aries FUNG Yuen-ching, Laboratory Manager 馮婉禎小姐，實驗室經理
TELEPHONE 電話	:	3956 8717
FAX 傳真	:	3956 3928
E-MAIL 電郵	:	aries@qualityprotest.com
WEBSITE ADDRESS 網址	:	www.qualityprotest.com
CLIENTELE 服務對象	:	Public 公眾

Contact details last updated on:18 July 2023

Quality Pro Test-Consult Limited
專業化驗有限公司

ADDRESS **地址**	:	Unit 10, 5/F, Wah Wai Centre, 38-40 Au Pui Wan Street, Fotan, New Territories 新界沙田火炭坳背灣街 38-40 號華衛工貿中心 5 樓 10 室
ACCREDITED TEST CATEGORY **認可測試類別**	:	Chemical Testing 化學測試 Environmental Testing 環境測試

Quality Pro Test-Consult Limited
專業化驗有限公司
Unit 10, 5/F, Wah Wai Centre, 38-40 Au Pui Wan Street, Fotan, New Territories
新界沙田火炭坳背灣街 38-40 號華衛工貿中心 5 樓 10 室

Chemical Testing 化學測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Ferric chloride solution	Assay of ferric chloride	GB 4482-2006 Cl. 5.1
Sodium hypochlorite solution	Available chlorine	GB 19106-2003 Cl. 5.1
Sodium hydroxide solution	Determination of sodium hydroxide	GB/T 4348.1-2000 <excluding determination of sodium carbonate>
Sodium bisulphite solution	Assay of sodium bisulphite	HG/T 3814-2006 Cl. 4.3

Quality Pro Test-Consult Limited
專業化驗有限公司
Unit 10, 5/F, Wah Wai Centre, 38-40 Au Pui Wan Street, Fotan, New Territories
新界沙田火炭坳背灣街 38-40 號華衛工貿中心 5 樓 10 室

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Indoor Air Quality Testing	Extractable components collected in passive samplers:- - Formaldehyde - Nitrogen dioxide	In house method SOP-ENV020 (HPLC-DAD) In house method SOP-ENV019 (UV-Vis Spectrophotometer)

Quality Pro Test-Consult Limited
專業化驗有限公司
Unit 10, 5/F, Wah Wai Centre, 38-40 Au Pui Wan Street, Fotan, New Territories
新界沙田火炭坳背灣街 38-40 號華衛工貿中心 5 樓 10 室

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Saline water	Physical examination: -	
	- Total Suspended Solids dried at 103-105 ℃	APHA 17e 2540D
Water and wastewater	Physical examination: -	
	- Colour	APHA 21e 2120B
	- Conductivity	APHA 21e 2510B
	- pH	APHA 21e 4500-H^+B
	- Turbidity	APHA 21e 2130B
	- Total Solids dried at 103-105 ℃	APHA 23e 2540B
	- Total Dissolved Solids dried at 180 ℃	APHA 23e 2540C
	- Total Suspended Solids dried at 103-105 ℃	APHA 17e 2540D
	- Hardness	APHA 23e 2340B (by calculation)
	Non-metallic constituents: -	
	- Chlorine (Free Residual)	APHA 21e 4500-Cl G
	- Chlorine (Total Residual)	APHA 21e 4500-Cl G
	- Chloride	APHA 23e 4500-Cl B
	- Sulphate	APHA 23e 4500-SO_4^{2-} E
	Organic Pollutants: -	
	- Chemical Oxygen Demand	APHA 21e 5220 B (Open reflux)
Tap water	Trace Metals (Dissolved and total recoverable) - Antimony, Cadmium, Chromium, Copper, Iron, Lead, Nickel.	In house method SOP-ENV009 (ICP-OES)

Quality Pro Test-Consult Limited
專業化驗有限公司

Unit 10, 5/F, Wah Wai Centre, 38-40 Au Pui Wan Street, Fotan, New Territories
新界沙田火炭坳背灣街 38-40 號華衛工貿中心 5 樓 10 室

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Microbiological examinations :-	
Collectate sampled by single-stage SAS IAQ sampler	- Airborne bacteria count (number of colonies & corrected of colonies on agar plate) (30 °C for 2 days)	In-house method SOP-MBT009
Collectate samples on agar plate	- Airborne bacteria count (number of colonies on agar plate) (30 °C for 2 days)	In-house method SOP-MBT009

Quality Pro Test-Consult Limited
專業化驗有限公司
Unit 10, 5/F, Wah Wai Centre, 38-40 Au Pui Wan Street, Fotan, New Territories
新界沙田火炭坳背灣街 38-40 號華衛工貿中心 5 樓 10 室

Environmental Testing 環境測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Water and Wastewater	Microbial indicators:-	
	- Heterotropic Plate count (Colony count at 35 °C)	APHA 22e 9125 A & B
	- Total coliform count	DOE (1983) The Bacteriological Examination of Drinking Water Supplies, 1982, Membrane Filtration Procedure: Section 7.8 and 7.9.4.1; Bacterial Confirmation: Section 7.9.4.3
	- Faecal Coliform count	DOE (1983) The Bacteriological Examination of Drinking Water Supplies, 1982, Membrane Filtration Procedure: Section 7.8 and 7.9.4.2; Bacterial Confirmation: Section 7.7.6.3
Wastewater	- *E. coli* count	DOE (1983) The Bacteriological Examination of Drinking Water Supplies, 1982 Membrane Filtration Procedure: Section 7.8 and 7.9.4.2; Bacterial confirmation: in situ urease test
Water	- *E. coli* count	DOE (1983) The Bacteriological Examination of Drinking Water Supplies, 1982 Membrane Filtration Procedure: Section 7.8 and 7.9.4.2; Bacterial confirmation: Section 7.9.4.4
Marine water	- Enumeration of E. coli	Environmental Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3, Environmental Protection Department, HK
Water, wastewater and cooling tower water	- Legionellae including Legionella pneumophila	AS/NZS 3896:1998
Potable water	- Legionellae including Legionella pneumophila	ISO 11731-2:2004

HK Elements Limited– Quality Testing Center
香港元素有限公司 – 品質檢測中心

ADDRESS 地址	:	Unit B, 6/F, HK JEBN Group Center, 13-15 Shing Wan Road, Tai Wai, N.T., Hong Kong 香港新界大圍成運路13-15號樓上集團中心6樓B室
ENQUIRY 查詢	:	Ms CHEUNG Tin-yan, Laboratory Supervisor 張天恩，實驗室策劃主管
TELEPHONE 電話	:	2707 1486
FAX 傳真	:	2338 0709
E-MAIL 電郵	:	ty.cheung@hkjebn.com
WEBSITE ADDRESS 網址	:	www.hkjebn.com
CLIENTELE 服務對象	:	In-house laboratory, normally not available for public testing 內部實驗室，通常只提供內部服務

HK Elements Limited– Quality Testing Center
香港元素有限公司 – 品質檢測中心

ADDRESS : Unit B, 6/F, HK JEBN Group Center, 13-15 Shing Wan Road, Tai Wai, N.T., Hong Kong
地址 香港新界大圍成運路 13-15 號樓上集團中心 6 樓 B 室

ACCREDITED TEST CATEGORY : Food 食品
認可測試類別

HK Elements Limited– Quality Testing Center
香港元素有限公司 – 品質檢測中心

Unit B, 6/F, HK JEBN Group Center, 13-15 Shing Wan Road, Tai Wai, N.T., Hong Kong
香港新界大圍成運路 13-15 號樓上集團中心 6 樓 B 室

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
General foodstuff	Trace elements:- - Antimony, Arsenic, Cadmium, Chromium, Lead, Mercury, Tin	In-house method FL-TP-0001 (By ICP-MS)
General foodstuff *<Excluding the following>* Milk	Microbiological examinations:- - Aerobic Plate count	US FDA Bacteriological Analytical Manual Online (BAM online), Ch. 3, January 2001 (Conventional Plate Count Method)
	- Coliform count	AOAC Official Methods 991.14 (2005) (Petrifilm)
	- *E. coli* count	AOAC Official Methods 991.14 (2005) (Petrifilm)

Shenzhen Mingji Testing Technology Co., Ltd.
深圳市明基檢測技術有限公司

ADDRESS 地址	:	No. G3-100, G Building, No. 2 Lixin Road, Qiaotou Subdistrict, Fuyong Street, Baoan District, Shenzhen, Guangdong Province, China 中國廣東省深圳市寶安區福永街道橋頭社區立新路 2 號 G 棟 G3-100
ENQUIRY 查詢	:	Mr JIANG Qinhong, General Manager 姜欽鴻先生，總經理
TELEPHONE 電話	:	6918 9562
FAX 傳真	:	86-755-29944983
E-MAIL 電郵	:	qhjiang@szmingji.com
WEBSITE ADDRESS 網址	:	http://www.szmingji.com
CLIENTELE 服務對象	:	Public 公眾

Shenzhen Mingji Testing Technology Co., Ltd.
深圳市明基檢測技術有限公司

ADDRESS **地址**	:	No. G3-100, G Building, No. 2 Lixin Road, Qiaotou Subdistrict, Fuyong Street, Baoan District, Shenzhen, Guangdong Province, China 中國廣東省深圳市寶安區福永街道橋頭社區立新路 2 號 G 棟 G3-100
ACCREDITED TEST CATEGORY **認可測試類別**	:	Construction Materials 建築材料

Shenzhen Mingji Testing Technology Co., Ltd.
深圳市明基檢測技術有限公司
No. G3-100, G Building, No. 2 Lixin Road, Qiaotou Subdistrict, Fuyong Street, Baoan District, Shenzhen, Guangdong Province, China
中國廣東省深圳市寶安區福永街道橋頭社區立新路 2 號 G 棟 G3-100

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Coating	Pull-off test of adhesion	BS EN ISO 4624: 2023 Cl. 9.4.2
Metallic materials	Bend test of metallic materials	BS EN ISO 7438: 2016 excluding Cl. 4.3 & 4.4 BS EN ISO 7438: 2020 excluding Cl. 6.3 & 6.4
	Charpy V-notch impact test	BS EN 10045-1: 1990 BS EN ISO 148-1: 2010 BS EN ISO 148-1: 2016 in conjunction with the following specification(s): BS EN 10025-1: 2004 Cl. 10.2.2 BS EN 10025-2: 2019 Cl. 10.2.2 & Table 8 BS EN 10025-3: 2019 Cl. 10.2.2, Table 5 & 6 BS EN 10025-4: 2019 Cl. 10.2.2, Table 5 & 6 BS EN 10025-5: 2019 Cl. 10.2.2 & Table 5 BS EN 10025-6: 2019 Cl. 10.2.2, Table 5 & 6
	Proof load test and tensile test of steel bolts, screws and studs in the force range 10 kN – 1000 kN	BS EN ISO 898-1: 2013 Cl. 9.6 in conjunction with the following specification(s): BS 3692: 2014 Cl. 14 & 21
	Proof load test of stainless steel nuts in the force range 10 kN – 1000 kN	BS EN ISO 6892-1: 2019 Cl. 10.3.2 & 10.3.3 Methods A & B in conjunction with the following specification(s): BS EN ISO 3506-2: 2020 Cl. 10.1
	Proof load test of steel nuts in the force range 10 kN – 1000 kN	BS 3692: 2014 Annex C.1 BS EN ISO 898-2: 2012 Cl. 9.1
	Tensile test for machined bolts, screws and studs in the force range 10 kN – 1000 kN	BS EN ISO 6892-1: 2016 Cl. 10.3.2 & 10.3.3 Methods A1, A2 & B BS EN ISO 6892-1: 2019 Cl. 10.3.2 & 10.3.3 Methods A & B in conjunction with the following specification(s): BS 3692: 2014 Cl. 14 & 21 BS EN ISO 898-1: 2013 Cl. 9.7 BS EN ISO 3506-1: 2020 Cl. 9.1

Shenzhen Mingji Testing Technology Co., Ltd.
深圳市明基檢測技術有限公司
No. G3-100, G Building, No. 2 Lixin Road, Qiaotou Subdistrict, Fuyong Street, Baoan District, Shenzhen, Guangdong Province, China
中國廣東省深圳市寶安區福永街道橋頭社區立新路 2 號 G 棟 G3-100

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Metallic materials (cont'd)	Tensile test of metallic materials in the force range of 10 kN – 1000 kN	BS EN 10002-1: 2001 BS EN ISO 6892-1: 2009 Cl. 10.3 & 10.4 Methods A & B BS EN ISO 6892-1: 2016 Cl. 10.3.2 & 10.3.3 Methods A1, A2 & B BS EN ISO 6892-1: 2019 Cl. 10.3.2 & 10.3.3 Methods A & B in conjunction with the following specification(s): BS 4360: 1990 Cl. 23 BS EN 10025-1: 2004 Cl. 7.3.1, 9.2.3.2 & 10.2.1 BS EN 10025-2: 2019 Cl.10.2.1, Table 6 & 7 BS EN 10025-3: 2019 Cl. 10.2.1, Table 4 BS EN 10025-4: 2019 Cl. 10.2.1, Table 4 BS EN 10025-5: 2019 Cl. 10.2.1, Table 4 BS EN 10025-6: 2019 Cl. 10.2.1, Table 4 BS EN 10164: 2018 Cl. 6 & 9.1 BS EN 10210-1: 2006 Cl. 6.6.1, 9.2.1 & 9.2.2 BS EN 10219-1: 2006 Cl. 6.7.1, 9.2.1 & 9.2.2 BS EN ISO 13918: 2018 Table 2
	Tensile test of reinforcing bars for reinforcement of concrete in the force range 10 kN – 1000 kN	BS EN ISO 6892-1: 2019 Cl. 10.3.2 & 10.3.3 Methods A & B in conjunction with the following specification(s): BS 4449: 2005 + A2: 2009 + A3: 2016 Cl. 7.2.2, 7.2.3, 8.1.3.1 & 9 CS2: 2012 (Rev. 6) Cl. 6.1 & 6.4
	Vickers hardness test of metallic materials in the scales of HV5, HV10 and HV30	BS EN ISO 6507-1: 2018

Shenzhen Mingji Testing Technology Co., Ltd.
深圳市明基檢測技術有限公司
No. G3-100, G Building, No. 2 Lixin Road, Qiaotou Subdistrict, Fuyong Street, Baoan District, Shenzhen, Guangdong Province, China
中國廣東省深圳市寶安區福永街道橋頭社區立新路 2 號 G 棟 G3-100

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Metallic materials (non-destructive)	Ultrasonic testing of metallic materials (Reflection method)	BS EN 10160: 1999 in conjunction with the following specification(s): BS EN 10164: 2018 Cl. 6.2
	Ultrasonic testing of H beams with parallel flanges and IPE beams (Manual method)	BS EN 10306: 2002
Paints and varnishes	Coating thickness measurement	BS EN ISO 2808: 2019 Cl. 5.5.6 & 5.5.7 BS 3900-C5: 2007 Cl. 5.5.7 & 5.5.8 in conjunction with the following specification(s): BS EN ISO 1461: 2009 Cl. 6.2
Welds (destructive)	Bend test on welds in metallic materials	BS EN ISO 5173: 2010 + A1: 2011
	Charpy V-notch impact test on welds in metallic materials	BS EN ISO 9016: 2011 BS EN ISO 9016: 2012 BS EN ISO 9016: 2022
	Fracture test on welds in metallic materials	BS EN ISO 9017: 2013 BS EN ISO 9017: 2018
	Longitudinal tensile test on welds in metallic materials in the force range 20 kN – 1000 kN	BS EN ISO 5178: 2011 BS EN ISO 5178: 2019
	Macroscopic examination on welds in metallic materials	BS EN ISO 17639: 2013 BS EN ISO 17639: 2022
	Transverse tensile test on welds in metallic materials in the force range 15 kN to 1000 kN	BS EN ISO 4136: 2011 BS EN ISO 4136: 2012 BS EN ISO 4136: 2022
	Tensile test on arc stud welding in metallic materials in the force range 10 kN – 1000 kN	BS EN ISO 6892-1: 2019 Cl. 10.3.2 & 10.3.3 Methods A & B in conjunction with the following specification(s): BS EN ISO 14555: 2017 Cl. 11.4
	Vickers hardness test on welded joints in the scale of HV5, HV10 and HV30	BS EN ISO 9015-1: 2011

Shenzhen Mingji Testing Technology Co., Ltd.
深圳市明基檢測技術有限公司
No. G3-100, G Building, No. 2 Lixin Road, Qiaotou Subdistrict, Fuyong Street, Baoan District, Shenzhen, Guangdong Province, China
中國廣東省深圳市寶安區福永街道橋頭社區立新路 2 號 G 棟 G3-100

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Welds (non-destructive)	Liquid penetrant test (Colour contrast method)	BS EN 571-1: 1997 BS EN ISO 3452-1: 2013 BS EN ISO 3452-1: 2021 in conjunction with the following specification(s): BS EN ISO 5817: 2014 Table 1 BS EN ISO 23277: 2015 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b
	Magnetic particle test (Magnetic flow method colour contrast technique using A.C. yokes)	BS EN 1290: 1998 BS EN ISO 9934-1: 2016 BS EN ISO 17638: 2009 BS EN ISO 17638: 2016 in conjunction with the following specification(s): BS EN ISO 5817: 2014 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b
	Ultrasonic test (butt welds in plates and pipes, 'T'- joint welds, nozzle welds & node welds)	BS EN 1714: 1998 (Level A, B, & C) BS EN ISO 17640: 2010 (Level A, B, & C) BS EN ISO 17640: 2018 (Level A, B, & C) in conjunction with the following specification(s): BS EN ISO 5817: 2014 Table 1 BS EN ISO 11666: 2018 Annex A Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b
	Visual examination	BS EN 970: 1997 BS EN ISO 17637: 2011 BS EN ISO 17637: 2016 in conjunction with the following specification(s): BS EN ISO 5817: 2014 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b
	Visual examination and bend test on stud connectors	<Visual examination as follows:> BS EN 970: 1997 BS EN ISO 17637: 2011 BS EN ISO 17637: 2016 <together with the following bend test method(s):> BS EN ISO 14555: 2017 Cl. 11.2, 11.3 (excluding Torque wrench method), 12.2 & 12.3

V2 Consulting Limited

ADDRESS 地址	:	Unit C, 4/F, Wai Cheung Industrial Center, No. 5, Shek Pai Tau Road, Tuen Mun, New Territories, Hong Kong 香港新界屯門石排頭路5號偉昌工業中心4樓C室
ENQUIRY 查詢	:	Mr Vishwa BABU, General Manager
TELEPHONE 電話	:	2640 6678
FAX 傳真	:	2640 6678
E-MAIL 電郵	:	info@v2cl.com
WEBSITE ADDRESS 網址	:	www.v2cl.com
CLIENTELE 服務對象	:	Public 公眾

V2 Consulting Limited

ADDRESS
地址

Unit C, 4/F, Wai Cheung Industrial Center, No. 5, Shek Pai Tau Road, Tuen Mun, New Territories, Hong Kong
香港新界屯門石排頭路 5 號偉昌工業中心 4 樓 C 室

ACCREDITED TEST CATEGORY
認可測試類別 : Construction Materials
建築材料

V2 Consulting Limited

Unit C, 4/F, Wai Cheung Industrial Center, No. 5, Shek Pai Tau Road, Tuen Mun, New Territories, Hong Kong
香港新界屯門石排頭路 5 號偉昌工業中心 4 樓 C 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Metallic materials (non-destructive)	Ultrasonic test of steel flat product (Reflection method)	ASME BPVC Sec V: 2017 Article 5 BS EN 10160: 1999 in conjunction with the following specifications BS EN 10160: 1999 Table 3 & 4
Structural fixings	Tensile proof load test of anchors by incremental loading in the force range 3 kN – 50 kN	BS 5080: Part 1: 1993 Cl. 6, 7.1.1, 7.1.3 with modifications
	Tensile proof load test of drilled-in anchors used for cantilevered structure/hanger/curtain wall remedial works by incremental loading in the force range 3 kN – 50 kN	Buildings Department PNAP APP-169 (Oct 2023) App. A
	Tensile proof load test of drilled-in anchors used for works other than cantilevered structure/ hanger/curtain wall remedial works in the force range 3 kN – 50 kN	Buildings Department PNAP APP-169 (Oct 2023) App. B
Welds (non-destructive)	Liquid penetrant test (Colour contrast and fluorescent methods, solvent removable)	ASME BPVC Sec V: 2017 Article 6 BS 6443: 1984 + Amd. 4844 BS EN 571-1: 1997 BS EN ISO 3452-1: 2013 in conjunction with the following specification(s): ASME B31.1: 2016 Para. 136.4.4 ASME B31.1: 2018 Para. 136.4.4 ASME B31.1: 2022 Para. 136.4.4 ASME B31.3: 2016 Para. 344.4.2 ASME B31.3: 2018 Para. 344.4.2 ASME B31.3: 2022 Para. 344.4.2 ASME BPVC.IX-2023 Article I QW-195.2 AWS D1.1/D1.1M: 2020 Table 8.1 & 10.15 BS 4515-1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 BS EN ISO 5817: 2014 Table 1 BS EN ISO 5817: 2023 Table 1 BS EN ISO 23277: 2015 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b

V2 Consulting Limited

Unit C, 4/F, Wai Cheung Industrial Center, No. 5, Shek Pai Tau Road, Tuen Mun, New Territories, Hong Kong
香港新界屯門石排頭路 5 號偉昌工業中心 4 樓 C 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Welds (non-destructive) (cont'd)	Magnetic particle test (Magnetic flow method, colour contrast and fluorescent method(s) using permanent magents, and A.C. yokes)	ASME BPVC Sec V: 2017 Article 7 BS 6072: 1981 + Amd. 3960, 4542 & 4843 BS EN 1290: 1998 + Amd. 13987 & 14935 BS EN ISO 9934-1: 2001 + Amd. 14960 BS EN ISO 9934-1: 2016 BS EN ISO 17638: 2009 BS EN ISO 17638: 2016 in conjunction with the following specification(s): ASME B31.1: 2016 Para. 136.4.3 ASME B31.1: 2018 Para. 136.4.3 ASME B31.1: 2022 Para. 136.4.3 ASME B31.3: 2016 Para. 344.3.2 ASME B31.3: 2018 Para. 344.3.2 ASME B31.3: 2022 Para. 344.3.2 AWS D1.1/D1.1M: 2020 Table 8.1 & 10.15 BS 4515-1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 BS EN ISO 5817: 2014 Table 1 BS EN ISO 5817: 2023 Table 1 BS EN ISO 23278: 2015 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b
	Radiographic test (Gamma Ray and X-Ray)	ASME BPVC Sec V: 2017 Article 2 ISO 17636: 2013 in conjunction with the following specification(s): ASME B31.1: 2016 Para. 136.4.5 ASME B31.1: 2018 Para. 136.4.5 ASME B31.1: 2022 Para. 136.4.5 ASME B31.3: 2016 Table 341.3.2 ASME B31.3: 2018 Table 341.3.2 ASME B31.3: 2022 Table 341.3.2 ASME BPVC.IX-2023 Article I QW-191.1 AWS D1.1/D1.1M: 2020 Cl. 8 Part C BS 4515-1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 BS EN ISO 5817: 2014 Table 1 BS EN ISO 5817: 2023 Table 1 BS EN ISO 10675-1: 2021 Table 4 & 5

V2 Consulting Limited

Unit C, 4/F, Wai Cheung Industrial Center, No. 5, Shek Pai Tau Road, Tuen Mun, New Territories, Hong Kong
香港新界屯門石排頭路 5 號偉昌工業中心 4 樓 C 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Welds (non-destructive) (cont'd)	Ultrasonic test (Butt welds in plates and pipes, 'T' joint welds, nozzle welds and node welds)	ASME BPVC Sec V: 2017 Article 4 BS 3923: Part 1: 1986 (Level 1, 2a, 2b & 3) BS EN 1714: 1998 + Amd. 10286 & 13990 (Level A, B & C) BS EN ISO 17640: 2010 (Level A, B & C) BS EN ISO 17640: 2018 (Level A, B & C) in conjunction with the following specification(s): ASME B31.1: 2016 Para. 136.4.6 ASME B31.1: 2018 Para. 136.4.6 ASME B31.1: 2022 Para. 136.4.6 ASME B31.3: 2016 Para. 344.6.2 ASME B31.3: 2018 Para. 344.6.2 ASME B31.3: 2022 Para. 344.6.2 ASME BPVC.IX-2023 Article I QW-191.2 AWS D1.1/D1.1M: 2020 Table 8.13 BS 4515-1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 BS EN ISO 5817: 2014 Table 1 BS EN ISO 5817: 2023 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b
	Visual examination	ASME BPVC Sec V: 2017 Article 9 BS 5289: 1976 BS EN 970: 1997 BS EN ISO 17637: 2011 BS EN ISO 17637: 2016 in conjunction with the following specification(s): ASME B31.1: 2016 Para. 136.4.2 ASME B31.1: 2018 Para. 136.4.2 ASME B31.1: 2022 Para. 136.4.2 ASME B31.3: 2016 Table 341.3.2 ASME B31.3: 2018 Table 341.3.2 ASME B31.3: 2022 Table 341.3.2 ASME BPVC.IX-2023 Article I QW-194 AWS D1.1/D1.1M: 2020 Tables 8.1 & 10.15 BS 4515-1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 BS EN ISO 5817: 2014 Table 1 BS EN ISO 5817: 2023 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b

V2 Consulting Limited

Unit C, 4/F, Wai Cheung Industrial Center, No. 5, Shek Pai Tau Road, Tuen Mun, New Territories, Hong Kong
香港新界屯門石排頭路 5 號偉昌工業中心 4 樓 C 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Welds (non-destructive) (cont'd)	Visual examination and bend test on stud connectors	<Visual examination as follows:> ASME BPVC Sec V: 2017 Article 9 BS 5289: 1976 BS EN 970: 1997 BS EN ISO 17637: 2011 BS EN ISO 17637: 2016 < together with the following bend test method(s):> BS 5400-6: 1999 Cl. 5.5.4(b) Buildings Department Code of Practice for the Structural Use of Steel (2011) Cl. 14.3.7.3

Soil Services Testing Company Limited
土質試驗有限公司

ADDRESS 地址	:	Unit 04, 13/F, Luen Cheong Can Centre, 8 Yip Wong Road, Tuen Mun, New Territories 新界屯門業旺路8號聯昌中心13樓04室
ENQUIRY 查詢	:	Mr HUI King-fai, Managing Director 許景輝先生，董事總經理 Mr LAU Chun-ming, Technical Manager 劉振明先生，技術經理
TELEPHONE 電話	:	2463 0100
FAX 傳真	:	2463 0609
E-MAIL 電郵	:	sst@soilservices.com.hk
CLIENTELE 服務對象	:	Public 公眾

Soil Services Testing Company Limited
土質試驗有限公司

ADDRESS **地址**	:	Units 03, 04 & 10, 13/F, Luen Cheong Can Centre, 8 Yip Wong Road, Tuen Mun, New Territories, Hong Kong 香港新界屯門業旺路 8 號聯昌中心 13 樓 03 室、04 室和 10 室
ACCREDITED TEST CATEGORY **認可測試類別**	:	Construction Materials 建築材料

Soil Services Testing Company Limited
土質試驗有限公司

Units 03, 04 & 10, 13/F, Luen Cheong Can Centre, 8 Yip Wong Road, Tuen Mun, New Territories, Hong Kong
香港新界屯門業旺路 8 號聯昌中心 13 樓 03 室、04 室和 10 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Concrete	Curing of test specimens	CS1: 2010 Section 10
	Compressive strength of cubes in the force range 50 kN - 3000 kN	CS1: 2010 Section 12
	Compressive strength of cores in the force range 50 kN - 3000 kN	CS1: 2010 Section 15
	Density of hardened concrete	CS1: 2010 Section 16
Rock	Preparation of rock core specimens and determination of dimensional and shape tolerances	ASTM D4543-08
	Point load strength index of rock by diametral and axial tests	ASTM D5731-08
	Unconfined uniaxial compressive strength in the force range 50 kN – 2500 kN	ASTM D2938-95
	Direct shear strength of jointed rock	ASTM D5607-02 with modifications

Soil Services Testing Company Limited
土質試驗有限公司

Units 03, 04 & 10, 13/F, Luen Cheong Can Centre, 8 Yip Wong Road, Tuen Mun, New Territories, Hong Kong
香港新界屯門業旺路 8 號聯昌中心 13 樓 03 室、04 室和 10 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Soil (Phase I)	Moisture content by oven-drying at 45℃±5℃	GEOSPEC 3: 2001 Test 5.1
	Moisture content by oven-drying at 105℃±5℃	GEOSPEC 3: 2001 Test 5.2
	Comparative test for the determination of moisture content by oven-drying	GEOSPEC 3: 2001 Test 5.3
	Liquid limit, plastic limit, and plasticity index	GEOSPEC 3: 2001 Test 6.1
	Liquidity index	GEOSPEC 3: 2001 Test 6.2
	Particle density by gas jar method	GEOSPEC 3: 2001 Test 7.1
	Particle density by small pyknometer method	GEOSPEC 3: 2001 Test 7.2
	Particle size distribution by wet sieving (with dispersant)	GEOSPEC 3: 2001 Test 8.1
	Particle size distribution by wet sieving (without dispersant)	GEOSPEC 3: 2001 Test 8.2
	Particle size distribution by hydrometer (with dispersant)	GEOSPEC 3: 2001 Test 8.5
	Particle size distribution by hydrometer (without dispersant)	GEOSPEC 3: 2001 Test 8.6
	Construction of a continuous particle size distribution curve from the results of wet-sieving and sedimentation tests	GEOSPEC 3: 2001 Test 8.7
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a 1000cc mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.1
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a 1000cc mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.2

Soil Services Testing Company Limited
土質試驗有限公司

Units 03, 04 & 10, 13/F, Luen Cheong Can Centre, 8 Yip Wong Road, Tuen Mun, New Territories, Hong Kong
香港新界屯門業旺路 8 號聯昌中心 13 樓 03 室、04 室和 10 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Soil (Phase I) (cont'd)	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a CBR mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.3
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a CBR mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.4
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a 1000cc mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.5
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a 1000cc mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.6
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a CBR mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.7
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a CBR mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.8
	In-situ bulk density and in-situ dry density of soils by the sand replacement method suitable for fine- and medium-grained soils (with small pouring cylinder)	GEOSPEC 3: 2001 Test 11.1
	In-situ bulk density and in-situ dry density of soils by the sand replacement method suitable for fine-, medium-, and coarse-grained soils (with large pouring cylinder)	GEOSPEC 3: 2001 Test 11.2
	Relative compaction of fill material	GEOSPEC 3: 2001 Test 11.4

Soil Services Testing Company Limited
土質試驗有限公司

Units 03, 04 & 10, 13/F, Luen Cheong Can Centre, 8 Yip Wong Road, Tuen Mun, New Territories, Hong Kong
香港新界屯門業旺路 8 號聯昌中心 13 樓 03 室、04 室和 10 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Soil (Phase II)	One-dimensional consolidation test	GEOSPEC 3: 2001 Test 14.1
	Unconsolidated undrained triaxial compression test without pore pressure measurement	GEOSPEC 3: 2001 Test 15.1
	Isotropically consolidated undrained triaxial compression test with pore pressure measurement	GEOSPEC 3: 2001 Test 15.2
	Isotropically consolidated drained triaxial compression test with measurement volume change	GEOSPEC 3: 2001 Test 15.3
	Unconfined compressive strength of cohesive soil by load frame method	BS 1377: Part 7: 1990 Cl. 7

Soil Services Testing Company Limited
土質試驗有限公司

Units 03, 04 & 10, 13/F, Luen Cheong Can Centre, 8 Yip Wong Road, Tuen Mun, New Territories, Hong Kong
香港新界屯門業旺路 8 號聯昌中心 13 樓 03 室、04 室和 10 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Soil (chemical analysis)	Organic matter content	GEOSPEC 3: 2017 Test 9.1
	Loss-on-ignition (L.O.I)	GEOSPEC 3: 2017 Test 9.2
	Total sulphate content	GEOSPEC 3: 2017 Test 9.3
	Water-soluble sulphate content	GEOSPEC 3: 2017 Test 9.3
	Water-soluble chloride content	GEOSPEC 3: 2017 Test 9.4
	pH value	GEOSPEC 3: 2017 Test 9.5
	Carbonate content	BS 1377: Part 3: 2018 Cl. 8.3
Ground Water (chemical analysis)	Sulphate content	GEOSPEC 3: 2017 Test 9.3
	pH value	GEOSPEC 3: 2017 Test 9.5

Hong Kong Productivity Council – Reliability Testing Centre
香港生產力促進局 – 可靠性測試中心

ADDRESS 地址	:	4/F., HKPC Building, 78 Tat Chee Avenue, Kowloon, Hong Kong 香港九龍達之路78號生產力大樓4/F
ENQUIRY 查詢	:	Mr LI Kwan-tai, Engineering Manager 李君泰先生，工程經理
TELEPHONE 電話	:	2788 5793
FAX 傳真	:	2788 5405
E-MAIL 電郵	:	reliability@hkpc.org
WEBSITE ADDRESS 網址	:	www.hkpc.org
CLIENTELE 服務對象	:	Public 公眾

Hong Kong Productivity Council – Reliability Testing Centre
香港生產力促進局 – 可靠性測試中心

ADDRESS **地址**	:	4/F., HKPC Building, 78 Tat Chee Avenue, Kowloon, Hong Kong 香港九龍達之路 78 號生產力大樓 4/F
ACCREDITED TEST CATEGORY **認可測試類別**	:	Electrical and Electronic Products 電氣及電子產品

Hong Kong Productivity Council – Reliability Testing Centre
香港生產力促進局 – 可靠性測試中心
4/F., HKPC Building, 78 Tat Chee Avenue, Kowloon, Hong Kong
香港九龍達之路 78 號生產力大樓 4/F

Electrical and Electronic Products 電氣及電子產品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Printed circuit boards fabricated with IPC-B-24 test pattern	Product performance test :- - Measurement of surface insulation resistance at high humidity conditions	IPC-TM-650 Test Methods Manual Section 2.6.3.7 (March 2007) ***<Excluding the following>*** Cl. 5.8 and 7.1

Appleone Calibration Laboratory Limited
蘋果温濕度校正實驗室有限公司

ADDRESS 地址	:	Room 1309, 13/F, CEO Tower, 77 Wing Hong Street, Lai Chi Kok, Kowloon, Hong Kong 香港九龍荔枝角永康街 77 號環薈中心 13 樓 1309 室
ENQUIRY 查詢	:	Mr NG Ka-sin 吳家善先生
TELEPHONE 電話	:	2370 4437
FAX 傳真	:	2114 0393
E-MAIL 電郵	:	info@appleonelab.com.hk
WEBSITE ADDRESS 網址	:	www.appleonelab.com.hk
CLIENTELE 服務對象	:	In-house laboratory, normally not available for public testing 通常只提供內部服務

Appleone Calibration Laboratory Limited
蘋果温濕度校正實驗室有限公司

ADDRESS **地址**	:	Room 1309, 13/F, CEO Tower, 77 Wing Hong Street, Lai Chi Kok, Kowloon, Hong Kong 香港九龍荔枝角永康街 77 號環薈中心 13 樓 1309 室
ACCREDITED TEST CATEGORY **認可測試類別**	:	Calibration Services 校正服務

Appleone Calibration Laboratory Limited
蘋果温濕度校正實驗室有限公司
Room 1309, 13/F, CEO Tower, 77 Wing Hong Street, Lai Chi Kok, Kowloon, Hong Kong
香港九龍荔枝角永康街 77 號環薈中心 13 樓 1309 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related quantities		
- Flow speed		
- Anemometer		
- Thermal type	Calibration for air velocity in accordance with in-house procedure TOP-AV-001 for the following points:	
	2.5 m/s	0.3 m/s
	5 m/s	0.5 m/s
	10 m/s	0.9 m/s
- Vane type	Calibration for air velocity in accordance with in-house procedure TOP-AV-002 for the following points:	
	2.5 m/s	0.4 m/s
	5 m/s	0.5 m/s
	10 m/s	0.7 m/s

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Appleone Calibration Laboratory Limited
蘋果温濕度校正實驗室有限公司
Room 1309, 13/F, CEO Tower, 77 Wing Hong Street, Lai Chi Kok, Kowloon, Hong Kong
香港九龍荔枝角永康街 77 號環薈中心 13 樓 1309 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Thermometry		
- Humidity		
- Digital hygrometer / Humidity & temperature meter	Calibration for relative humidity at air temperature 25 °C in accordance with in-house procedure TOP-RH-001 over the following range:	
	20 % rh to 80 % rh	1.4 % rh
- Temperature		
- Digital hygrometer / Humidity & temperature meter	Calibration for temperature in accordance with in-house procedure TOP-RH-001 over the following range:	
	15 °C to 35 °C	0.3 °C
- Digital thermometer	Calibration for temperature in accordance with in-house procedure TOP-DB-001 over the following range:	
	-20 °C to 100 °C	0.3 °C
- Infrared thermometer	Calibration for temperature in accordance with in-house procedure TOP-IR-001 over the following range:	
	-18 °C to 100 °C	1.7 °C to 2.1 °C

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

SgT Lab Testing Limited

ADDRESS 地址	:	Unit F and G, 22/F, Golden Bear Industrial Centre, 66-82 Chai Wan Kok Street, Tsuen Wan, New Territories, Hong Kong 香港新界荃灣柴灣角街 66-82 號金熊工業中心 22 樓 F 及 G 室
ENQUIRY 查詢	:	Ms Serena TSUI Ying-li, Laboratory Director 徐瑩莉女士，實驗室總監
TELEPHONE 電話	:	2391 1719
FAX 傳真	:	--
E-MAIL 電郵	:	serena.tsui@sgtgroup.net
WEBSITE ADDRESS 網址	:	www.sgtgroup.net
CLIENTELE 服務對象	:	Public 公眾

SgT Lab Testing Limited

ADDRESS **地址**	:	Unit F and G, 22/F, Golden Bear Industrial Centre, 66-82 Chai Wan Kok Street, Tsuen Wan, New Territories, Hong Kong 香港新界荃灣柴灣角街 66-82 號金熊工業中心 22 樓 F 及 G 室
ACCREDITED TEST CATEGORY **認可測試類別**	:	Textiles and Garments 紡織品及成衣

SgT Lab Testing Limited

Unit F and G, 22/F, Golden Bear Industrial Centre, 66-82 Chai Wan Kok Street, Tsuen Wan, New Territories, Hong Kong
香港新界荃灣柴灣角街 66-82 號金熊工業中心 22 樓 F 及 G 室

Textiles and Garments 紡織品及成衣		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
General textiles and garments	Colour fastness tests :-	
	- Rubbing/crocking	ISO 105-X12: 2016 AATCC TM8-2016e GB/T 3920-2008
	- Sea water	ISO 105-E02: 2013
	- Washing	AATCC TM61-2013e2 Test No. 1A, 1B, 2A, 3A ISO 105-C06: 2010 Tests A1S-B2S
	- Water	AATCC TM107-2013e2 ISO 105-E01: 2013 GB/T 5713-2013
	Construction tests :-	
	- Fabric weight	ISO 3801: 1977 Method 5
	Fabric performance tests :-	
	- Pilling resistance (Pilling box method)	BS EN ISO 12945-1: 2001
	- Water repellency (Spray rating)	AATCC TM22-2017e ISO 4920: 2012
	- Water resistance (hydrostatic pressure)	ISO 811: 2018
	Strength tests :-	
	- Tearing strength (Elmendorf)	ISO 13937-1: 2000 ASTM D1424-09(2013)e1
	- Tensile strength	ISO 13934-1: 2013

Hong Kong Police Force - Identification Bureau
香港警務處 - 鑑證科

ADDRESS : 10-11/F, Arsenal House West Wing, Police Headquarters, 1 Arsenal Street, Wanchai, Hong Kong
地址 香港灣仔軍器廠街一號警察總部警政大樓西翼十及十一樓

ENQUIRY : Dr TAN Tung-fai, Chief Inspector of Police, Advanced Technology Section, Identification Bureau (CIP ATS IB)
查詢 檀東輝博士，鑑證科先進科技課總督察

TELEPHONE : 2806-8270
電話

FAX : 2121-1066
傳真

E-MAIL : cip-ats-ib@police.gov.hk
電郵

WEBSITE ADDRESS
網址

CLIENTELE : In-house laboratory, normally not available for public testing
服務對象 內部實驗所，通常只提供內部服務

Hong Kong Police Force - Identification Bureau
香港警務處 – 鑑證科

ADDRESS **地址**	:	10-11/F, Arsenal House West Wing, Police Headquarters, 1 Arsenal Street, Wanchai, Hong Kong 香港灣仔軍器廠街一號警察總部警政大樓西翼十及十一樓
ACCREDITED TEST CATEGORY **認可測試類別**	:	Forensic Testing 科學鑑證

Hong Kong Police Force - Identification Bureau
香港警務處 – 鑑證科
10-11/F, Arsenal House West Wing, Police Headquarters, 1 Arsenal Street, Wanchai, Hong Kong
香港灣仔軍器廠街一號警察總部警政大樓西翼十及十一樓

Forensic Testing 科學鑑證		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Adhesive surfaces, non-porous and semi-porous substrate	Latent fingerprint recovery	In-house method T20 (Powder suspension)
Adhesive surfaces	Latent fingerprint recovery	In-house method T2 (Black Powder, BP)
Porous and semi-porous surfaces	Latent fingerprint recovery	In-house method T13 (Ninhydrin, NFN)
Non-porous surfaces	Latent fingerprint recovery	In-house method T23 (Lumicyano Fuming, LUMI)

IDEAL Test Consultants Limited
亞典測試顧問有限公司

ADDRESS 地址	:	Unit 18, 8/F, World-wide Industrial Centre, 43-47 Shan Mei Street, Fo Tan, Shatin, New Territories, Hong Kong 香港新界沙田火炭山尾街 43-47 號環球工業中心 8 樓 818 室
ENQUIRY 查詢	:	Mr Sunny WONG Kam-shun, Technical & Quality Director 黃錦舜先生，技術及質量董事
TELEPHONE 電話	:	9777 6338, 3702 1986
FAX 傳真	:	3702 1987
E-MAIL 電郵	:	sunny@idealtest.com.hk
CLIENTELE 服務對象	:	Public 公眾

IDEAL Test Consultants Limited
亞典測試顧問有限公司

ADDRESS **地址**	:	Unit 18, 8/F, World-wide Industrial Centre, 43-47 Shan Mei Street, Fo Tan, Shatin, New Territories, Hong Kong 香港新界沙田火炭山尾街 43-47 號環球工業中心 8 樓 818 室
ACCREDITED TEST CATEGORIES **認可測試類別**	:	Calibration Services 校正服務 Construction Materials 建築材料

IDEAL Test Consultants Limited
亞典測試顧問有限公司

Unit 18, 8/F, World-wide Industrial Centre, 43-47 Shan Mei Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭山尾街 43-47 號環球工業中心 8 樓 818 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related measurements		
- Pressure		
- Pressure gauge	Calibration of pressure using dead weight tester with oil as pressure medium in accordance with in-house method PRESSURE GAUGE 837 over the following ranges:	
	1 bar to 60 bar	0.24 bar

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

IDEAL Test Consultants Limited
亞典測試顧問有限公司
Unit 18, 8/F, World-wide Industrial Centre, 43-47 Shan Mei Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭山尾街 43-47 號環球工業中心 8 樓 818 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Valves	Shell strength test of copper alloy gate valve	BS EN 12266-1: 2003 Cl. A2 BS EN 12266-1: 2012 Cl. A2 in conjunction with the following specification(s): BS EN 12288: 2010 Cl. 5.1
	Shell tightness test of copper alloy gate valve	BS EN 12266-1: 2003 Cl. A3 BS EN 12266-1: 2012 Cl. A3 in conjunction with the following specification(s): BS EN 12288: 2010 Cl. 5.1
	Seat tightness test of copper alloy gate valve	BS EN 12266-1: 2003 Cl. A4 BS EN 12266-1: 2012 Cl. A4 in conjunction with the following specification(s): BS EN 12288: 2010 Cl. 5.1
	Obturator strength test of copper alloy gate valve	BS EN 12266-2: 2002 Cl. A2 BS EN 12266-2: 2012 Cl. A2 in conjunction with the following specification(s): BS EN 12288: 2010 Cl. 5.1

Material Tech Company Limited
進科檢測有限公司

ADDRESS 地址	:	105 San Lee Uk Tsuen, Tin Ha Road, Yuen Long, New Territories, Hong Kong 香港新界元朗田廈路新李屋村105號
ENQUIRY 查詢		Mr Felix Chan, Managing Director 陳景華先生，董事總經理
TELEPHONE 電話		2973 0138
FAX 傳真		2973 0003
E-MAIL 電郵		marketing@materialtech.com.hk
CLIENTELE 服務對象		Public 公眾

Material Tech Company Limited
進科檢測有限公司

ADDRESS
地址

Main Laboratory	:	105 San Lee Uk Tsuen, Tin Ha Road, Yuen Long, New Territories, Hong Kong 香港新界元朗田廈路新李屋村 105 號
Test Location	:	中國廣東省東莞市高埗鎮低涌村創興路廉商智造產業園 G 棟一樓四、五區
ACCREDITED TEST CATEGORY **認可測試類別**	:	Calibration Services 校正服務 Construction Materials 建築材料

Material Tech Company Limited
進科檢測有限公司
105 San Lee Uk Tsuen, Tin Ha Road, Yuen Long, New Territories, Hong Kong
香港新界元朗田廈路新李屋村 105 號

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Construction materials testing equipment		
- Compacting bar	Verification in accordance with in-house method TP-C037 for the dimensional and mass requirements as specified in CS1: 2010 Vol. 1 App. A10	
	Dimensions of ramming face: 25 mm x 25 mm	0.13 mm
	Length: 380 mm	1.0 mm
	Mass: 1.8 kg	0.05 kg
	On-site verification in accordance with in-house method TP-C037 for the dimensional and mass requirements as specified in CS1: 2010 Vol. 1 App. A10	
	Dimensions of ramming face: 25 mm x 25 mm	0.13 mm
	Length: 380 mm	1.0 mm
	Mass: 1.8 kg	0.05 kg
- Cube mould	Verification in accordance with in-house method TP-C001 for the dimensional requirements as specified in CS1: 2010 Vol. 1 App. A25	
	Dimension: 100 mm or 150 mm	0.05 mm
	Thickness of base plate: minimum 10 mm	0.05 mm
	Flatness: not more than 0.03 mm or 0.06 mm	0.02 mm
	Perpendicularity: 0.5 mm	0.05 mm
	Parallelism: 1 mm	0.1 mm
	On-site verification in accordance with in-house method TP-C001 for the dimensional requirements as specified in CS1: 2010 Vol. 1 App. A25	
	Dimension: 100 mm or 150 mm	0.05 mm
	Thickness of base plate: minimum 10 mm	0.05 mm
	Flatness: not more than 0.03 mm or 0.06 mm	0.02 mm
	Perpendicularity: 0.5 mm	0.05 mm
	Parallelism: 1 mm	0.1 mm

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Material Tech Company Limited
進科檢測有限公司
105 San Lee Uk Tsuen, Tin Ha Road, Yuen Long, New Territories, Hong Kong
香港新界元朗田廈路新李屋村 105 號

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Construction materials testing equipment (cont'd)		
- Curing tank	On-site calibration for the following parameters in accordance with in-house method TP-C028:	
	Temperature distribution	0.4 ℃
	Efficiency of circulation	30 s
- Rebound hammer	Calibration in accordance with in-house method TP-C049 by determining the rebound value using a steel reference anvil which complies with BS EN 12504-2: 2001 Cl. 4.2, or BS EN 12504-2: 2012 Cl. 4.2	1 rebound count
	On-site calibration in accordance with in-house method TP-C049 by determining the rebound value using a steel reference anvil which complies with BS EN 12504-2: 2001 Cl. 4.2, or BS EN 12504-2: 2012 Cl. 4.2	1 rebound count
- Slump cone	Verification in accordance with in-house method TP-C038 for the dimensional requirements as specified in CS1: 2010 Vol. 1 App. A5	
	Internal diameter of top: 100 mm	0.5 mm
	Internal diameter of base: 200 mm	1.0 mm
	Wall thickness: minimum 1.5 mm	0.1 mm
	Height: 300 mm	1.0 mm
	On-site verification in accordance with in-house method TP-C038 for the dimensional requirements as specified in CS1: 2010 Vol. 1 App. A5	
	Internal diameter of top: 100 mm	0.5 mm
	Internal diameter of base: 200 mm	1.0 mm
	Wall thickness: minimum 1.5 mm	0.1 mm
	Height: 300 mm	1.0 mm

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Material Tech Company Limited
進科檢測有限公司
105 San Lee Uk Tsuen, Tin Ha Road, Yuen Long, New Territories, Hong Kong
香港新界元朗田廈路新李屋村 105 號

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED[@]** 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Construction materials testing equipment (cont'd)		
- Tamping rod	Verification in accordance with in-house method TP-C036 for the dimensional requirements as specified in CS1: 2010 Vol. 1 App. A6	
	Diameter: 16 mm	0.08 mm
	Length: 600 mm	1.5 mm
	On-site verification in accordance with in-house method TP-C036 for the dimensional requirements as specified in CS1: 2010 Vol. 1 App. A6	
	Diameter: 16 mm	0.08 mm
	Length: 600 mm	1.5 mm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Material Tech Company Limited
進科檢測有限公司
105 San Lee Uk Tsuen, Tin Ha Road, Yuen Long, New Territories, Hong Kong
香港新界元朗田廈路新李屋村 105 號

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED[@]** 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related measurements - Length measuring instruments - Calliper	Calibration for length in accordance with in-house method TP-C002 over the following range:	
	0 mm to 300 mm	0.02 mm
	On-site calibration for length in accordance with in-house method TP-C002 over the following range:	
	0 mm to 300 mm	0.02 mm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Material Tech Company Limited

進科檢測有限公司

105 San Lee Uk Tsuen, Tin Ha Road, Yuen Long, New Territories, Hong Kong

香港新界元朗田廈路新李屋村 105 號

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED[@]** 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related measurements - Length measuring instruments - Extensometer - Grade C with gauge length from 100 mm to 300 mm - Grade D with gauge length from 50 mm to 300 mm - Grade E or F with gauge length from 25 mm to 300 mm	On-site calibration for diaplacement using calibration rig and verification of grade in accordance with BS 3846: 1970 (excluding the determination of calibration factor) over the following range : 0.01 mm to 5 mm	 2 µm
- Class 1 or Class 2 with gauge length from 25 mm to 300 mm	On-site calibration for displacement using calibration rig and verification of grade in accordance with BS EN 10002-4: 1995 over the following range : 0.01 mm to 5 mm On-site calibration for displacement using calibration rig and verification of grade in accordance with BS EN ISO 9513: 2002 over the following range : 0.01 mm to 5 mm On-site calibration for displacement using calibration rig and verification of grade in accordance with BS EN ISO 9513: 2012 over the following range : 0.01 mm to 5 mm	 2 µm 2 µm 2 µm
- Linear displacement measuring device	Calibration for length in accordance with in-house method TP-C194 over the following range: 0 mm to 100 mm	 0.01 mm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Material Tech Company Limited
進科檢測有限公司

105 San Lee Uk Tsuen, Tin Ha Road, Yuen Long, New Territories, Hong Kong
香港新界元朗田廈路新李屋村 105 號

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities - Electronic balance - Precision laboratory balance	Calibration for mass in accordance with in-house method TP-C005 using OIML Class standard weights E2 from 1 mg to 200 g over the following ranges:	
	1 mg to 1 g	20 µg
	above 1 g to 20 g	75 µg
	above 20 g to 100 g	250 µg
	above 100 g to 200 g	400 µg
	On-site calibration for mass in accordance with in-house method TP-C005 using OIML Class standard weights E2 from 1 mg to 200 g over the following ranges:	
	1 mg to 1 g	20 µg
	above 1 g to 20 g	75 µg
	above 20 g to 100 g	250 µg
	above 100 g to 200 g	400 µg

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Material Tech Company Limited
進科檢測有限公司
105 San Lee Uk Tsuen, Tin Ha Road, Yuen Long, New Territories, Hong Kong
香港新界元朗田廈路新李屋村 105 號

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities (cont'd) - Electronic balance (cont'd) - Industrial balance	Calibration for mass in accordance with in-house method TP-C005 using OIML Class standard weights F1 from 1 mg to 20 kg over the following ranges:	
	1 g to 200 g	2 mg
	above 200 g to 1 kg	15 mg
	above 1 kg to 5 kg	20 mg
	above 5 kg to 10 kg	150 mg
	above 10 kg to 20 kg	200 mg
	above 20 kg to 60 kg	650 mg
	On-site calibration for mass in accordance with in-house method TP-C005 using OIML Class standard weights F1 from 1 mg to 20 kg over the following ranges:	
	1 g to 200 g	2 mg
	above 200 g to 1 kg	15 mg
	above 1 kg to 5 kg	20 mg
	above 5 kg to 10 kg	150 mg
	above 10 kg to 20 kg	200 mg
	above 20 kg to 60 kg	650 mg

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Material Tech Company Limited
進科檢測有限公司
105 San Lee Uk Tsuen, Tin Ha Road, Yuen Long, New Territories, Hong Kong
香港新界元朗田廈路新李屋村 105 號

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities (cont'd) - Force testing machine - Compression testing machine	On-site calibration for compressive force using Class 1 load cells and verification of class in accordance with BS EN ISO 7500-1: 2004, or BS EN ISO 7500-1: 2018 using constant true force method or constant indicated force method over the following range:	
	0.3 kN to 3000 kN	0.3 % of reading
	On-site calibration for compressive force using Class 1 load cells and verification of class in accordance with BS EN 12390-4: 2000 Table 1 and Annex B using constant true force method or constant indicated force method over the following range:	
	0.3 kN to 3000 kN	0.3 % of reading
- Concrete testing machine	On-site verification for strain ratio by performing strain gauged column and proving test (stability test) in accordance with BS 1881: Part 115: 1986 (Amd. 6536) App. A; or BS EN 12390-4: 2000 Annex A; or CS 1: 2010: Vol. 2 App. D over the following range of compressive force:	
	200 kN to 2000 kN	0.05 strain ratio

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Material Tech Company Limited
進科檢測有限公司
105 San Lee Uk Tsuen, Tin Ha Road, Yuen Long, New Territories, Hong Kong
香港新界元朗田廈路新李屋村 105 號

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities (cont'd) - Force testing machine - Marshall testing machine	On-site calibration for compressive force using Class 1 load cells and verification of class in accordance with BS EN ISO 7500-1: 2018 using constant true force method or constant indicated force method over the following range:	
	0.3 kN to 1 kN	2.7 % of reading
	above 1 kN to 5 kN	0.5 % of reading
	above 5 kN to 50 kN	0.3 % of reading
	On-site calibration for compressive force using Grade 1.0 load cells and verification of grade in accordance with BS 1610: Part 1: 1992 using constant true force method or constant indicated force method over the following range:	
	0.3 kN to 1 kN	1.9 % of reading
	above 1 kN to 5 kN	0.4 % of reading
	above 5 kN to 50 kN	0.3 % of reading

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Material Tech Company Limited
進科檢測有限公司
105 San Lee Uk Tsuen, Tin Ha Road, Yuen Long, New Territories, Hong Kong
香港新界元朗田廈路新李屋村 105 號

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities (cont'd)		
- Force measurements (cont'd)		
- Universal testing machine in compression mode	On-site calibration for compressive force using Class 1 load cells and verification of class in accordance with BS EN ISO 7500-1: 2004, or BS EN ISO 7500-1: 2018 using constant true force method or constant indicated force method over the following range:	
	0.3 kN to 2000 kN	0.3 % of reading
	On-site calibration for compressive force using Grade 1.0 load cells and verification of grade in accordance with BS 1610: Part 1: 1992 using constant true force method or constant indicated force method over the following range:	
	0.3 kN to 2000 kN	0.3 % of reading
- Load cell	Calibration for compressive force in accordance with in-house method TP-C204 over the following ranges :	
	0.5 kN to 5 kN	0.6 % of reading
	above 5 kN to 100 kN	0.4 % of reading
	above 100 kN to 1000 kN	0.3 % of reading

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Material Tech Company Limited
進科檢測有限公司
105 San Lee Uk Tsuen, Tin Ha Road, Yuen Long, New Territories, Hong Kong
香港新界元朗田廈路新李屋村 105 號

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Temperature measurement		
- Analogue thermometer	Calibration for temperature in accordance with in-house method TP-C131 over the following ranges:	
	-20 ℃ to 10 ℃	0.6 K
	above 10 ℃ to 80 ℃	0.6 K
	above 80 ℃ to 170 ℃	1.3 K
- Digital thermometer	Calibration for temperature in accordance with in-house method TP-C129 over the following ranges:	
	-20 ℃ to 10 ℃	0.3 K
	above 10℃ to 80℃	0.2 K
	above 80℃ to 170℃	0.4 K
- Liquid-in-glass thermometer	Calibration for temperature in accordance with in-house method TP-C130 over the following ranges:	
	-20 ℃ to 10 ℃	0.3 K
	above 10 ℃ to 80 ℃	0.2 K
	above 80 ℃ to 170 ℃	0.4 K
- Digital thermometer with PRT sensor	Calibration for temperature in accordance with in-house method TP-C129 over the following ranges:	
	-20 ℃ to 10 ℃	0.3 K
	10 ℃ to 80 ℃	0.2 K
	above 80 ℃ to 170 ℃	0.4 K

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Material Tech Company Limited
進科檢測有限公司
105 San Lee Uk Tsuen, Tin Ha Road, Yuen Long, New Territories, Hong Kong
香港新界元朗田廈路新李屋村 105 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Adhesive	Pull-off test of mortar in the force range 0.6 kN to 20 kN	Hong Kong Housing Authority Materials Testing Services (2018/2020) for Maintenance and Building Materials Specification Part D Cl. 2.1.15 Method 1 Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance and Building Materials Specification Part D Cl. 2.1.15 Method 1
	Pull-off test of adhesive in the force range 0.6 kN to 20 kN	In-house method TP-F028
	Pull-off test of render in the force range 0.6 kN to 20 kN	In-house method TP-F053
	Pull-off test of tiles in the force range 0.6 kN to 20 kN	In-house method TP-F055 Hong Kong Housing Authority Materials Testing Services (2018/2020) for Maintenance and Building Materials Specification Part D Cl. 7.11 Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance and Building Materials Specification Part D Cl. 7.11 Hong Kong Housing Authority Specification Library (2022) FIN5.T150.7 (3)
Admixtures (chemical analysis)	Ash content of liquid admixture	BS 5075: Part1:1982 (Amd.4910) App.D2
	Dry material content	BS 5075: Part1:1982 (Amd.4910) App.D1
	Conventional dry material content of liquid admixture	BS EN 480-8: 2012
	pH of liquid admixture	ISO 4316: 1977 (E)
	Relative density of liquid admixture	BS 5075: Part 1: 1982 (Amd. 4910) App. D.3
	Density of liquid admixture	ISO 758: 1976
	Chloride ion content of liquid admixture	BS 5075: Part 1: 1982 (Amd. 4910) App. E
	Acid soluble alkali content of liquid admixture (equivalent Na_2O)	BS EN 480-12: 2005 (Flame photometer)
	Water-soluble chloride content	BS EN 480: Part 10: 2009 (Method 3)

Material Tech Company Limited
進科檢測有限公司
105 San Lee Uk Tsuen, Tin Ha Road, Yuen Long, New Territories, Hong Kong
香港新界元朗田廈路新李屋村 105 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Aggregates	Sampling	BS 812: Part 102: 1989 CS3: 2013 Section 8
	Particle size distribution	BS 812: Section 103.1: 1985 + Amd. 6003 (by sieve analysis) BS EN 933-1: 2012 CS3: 2013 Section 10 (by sieve analysis)
	Flakiness index	BS 812: Section 105.1: 1989 BS EN 933-3: 2012 CS3: 2013 Section 11
	Elongation index	BS 812: Section 105.2: 1990 CS3: 2013 Section 12
	Methylene blue value	CS3: 2013 Section 13
	Los Angeles value	CS3: 2013 Section 14
	Aggregate impact value	BS 812: Part 112: 1990 + Amd. 8772 CS3: 2013 Section 15
	Ten per cent fines value	BS 812: Part 111: 1990 CS3:2013 Section 16
	Particle densities and water absorption	BS 812: Part 2: 1995 + Amd. 9195 & 10379 CS3: 2013 Section 17
	Moisture content	BS 812: Part 109: 1990 (by oven drying method) CS3: 2013 Section 18 (by oven drying method)
	Soundness	BS 812: Part 121: 1989 BS 6349: Part 1: 1984 App. B BS EN 1367-2: 2009 CS3: 2013 Section 19
	Drying shrinkage	CS3: 2013 Section 20
	Alkali silica reaction potential by ultra-accelerated mortar-bar test	CS1: 2010 Section 22
	Aggregate crushing value	BS 812: Part 110: 1990
	Bulk density, voids and bulking	BS 812: Part 2: 1995 + Amd. 9195 & 10379
	Clay, silt and dust content	BS 812: Part 1: 1975 + Amd. 4875 (by decantation method)

Material Tech Company Limited
進科檢測有限公司
105 San Lee Uk Tsuen, Tin Ha Road, Yuen Long, New Territories, Hong Kong
香港新界元朗田廈路新李屋村 105 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Aggregates (cont'd)	Compacting fraction value of aggregates for granular bed	General Specification for Civil Engineering Works (2006) Vol. 1 App. 5.2 General Specification for Civil Engineering Works (2020) Vol. 1 App. 5.2 Hong Kong Housing Authority Specification Library (2022) DRA2.T250.9 to DRA2.T280.9
	Resistance of aggregates to fragmentation	BS EN 1097-2: 2010 Cl. 5
	Resistance to degradation of small size coarse aggregate by abrasion and impact in the Los Angeles Machine	ASTM C131-96 with modifications ASTM C131-06 with modifications ASTM C131/C131M-20 with modifications
	Resistance to degradation of large size coarse aggregate by abrasion and impact in the Los Angeles Machine	ASTM C535-96 with modifications ASTM C535-16 with modifications
	Shell content in coarse aggregates	BS 812: Part 106: 1985
	Water Absorption	BS EN 1097-6: 2013 Annex B
Aggregates (chemical analysis)	Water-soluble chloride salts	BS 812 : Part 117: 1988 *Excluding* Cl. 4 BS EN 1744 : Part 1 : 2009 Cl.7 *Excluding* 7.2
	Total sulphate content by acid extraction	BS 812: Part 118 : 1998 Cl.6 *Excluding* Cl. 4
	Water-soluble chloride ion content	CS3: 2013 Section 21.3
	Acid-soluble chloride ion content	CS3: 2013 Section 21.4
	Acid-soluble sulphate content	CS3: 2013 Section 21.5
	Total sulphur content	CS3: 2013 Section 21.6
	Presence of humus	CS3: 2013 Section 21.7

Material Tech Company Limited
進科檢測有限公司
105 San Lee Uk Tsuen, Tin Ha Road, Yuen Long, New Territories, Hong Kong
香港新界元朗田廈路新李屋村 105 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Bituminous materials	Air voids content of bituminous specimens	BS EN 12697-8: 2003 BS EN 12697-8: 2018
	Bulk density of compacted bituminous specimens (saturated surface dry)	BS EN 12697-6: 2003 Procedure A & B BS EN 12697-6: 2012 Procedure A & B
	Bulk specific gravity and density of non-absorptive compacted bituminous mixtures	ASTM D2726-96a ASTM D2726/D2726M -17
	Density, stability and flow of bituminous mixtures using Marshall Apparatus	ASTM D1559-89 Chapter 7, MS-2 Asphalt Mix Design Methods (7th edition 2014), Asphalt Institute
	Percentage air voids in compacted dense bituminous paving mixtures	ASTM D3203-94 ASTM D3203/D3203M -17
	Quantitative extraction of bitumen from bituminous paving mixtures	ASTM D2172-95 (Method A using ashing method) ASTM D2172/D2172M -17e1
	Sieve analysis of fine and coarse aggregates and materials finer than 75 micron sieve in mineral aggregates by washing	ASTM C117-95 ASTM C136-96a with modification
	Theoretical maximum specific gravity of bituminous paved mixtures	ASTM D2041-95 (weighing in water method)
Bituminous materials (pure bitumen)	Density of semi-solid and solid asphalt materials by nickel crucible method	ASTM D3289-17
	Ductility of bituminous materials	ASTM D113-07
	Effect of heat and air on asphaltic materials (thin-film oven test)	ASTM D1754/D1754M-09 (2014)
	Loss in mass after heating of industrial bitumen	BS EN 13303: 2009
	Penetration of bituminous materials	ASTM D5/D5M-13 ASTM D5/D5M-19 BS EN 1426: 2015
	Sieve analysis of mineral filler for asphalt paving mixtures	ASTM D546-17 with modifications

Material Tech Company Limited
進科檢測有限公司
105 San Lee Uk Tsuen, Tin Ha Road, Yuen Long, New Territories, Hong Kong
香港新界元朗田廈路新李屋村 105 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Bituminous materials (pure bitumen) (cont'd)	Solubility of asphalt materials in trichloroethylene	ASTM D2042-15
	Softening point by ring and ball method	ASTM D36/D36M-14 BS 2000: Part 58: 2015 BS EN 1427: 2015
	Viscosity of asphalt by vacuum capillary viscometer	ASTM D2171/D2171M-10
Cement	Compressive strength of broken mortar prisms in the force range 10 kN - 300 kN	BS EN 196-1: 2005
	Compressive strength of hydraulic cement mortars	ASTM C109/C109M-21 with modifications
	Density	BS EN 196-6: 1992 Annex NC BS EN 196-6: 2010 Annex NC
	Fineness	BS EN 196-6: 1992 (by Blaine Method) BS EN 196-6: 2010 (by Blaine Method)
	Fineness of hydraulic cement by air-permeability apparatus	ASTM C204-18 Method A
	Flexural strength of mortar prisms	BS EN 196-1: 2005
	Potential expansion of Portland-cement mortars exposed to sulfate	ASTM C452-21
	Setting times	BS EN 196-3: 2005 + Al: 2008
	Soundness	BS EN 196-3: 2005 + Al: 2008
	Standard consistence	BS EN 196-3: 2005 + Al: 2008

Material Tech Company Limited
進科檢測有限公司
105 San Lee Uk Tsuen, Tin Ha Road, Yuen Long, New Territories, Hong Kong
香港新界元朗田廈路新李屋村 105 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Cement (chemical analysis)	Chloride content (Cl^-)	BS EN 196-2: 2013 Cl. 4.5.16
	Residue insoluble in hydrochloric acid and sodium carbonate	BS EN 196-2: 2013 Cl. 4.4.3
	Loss on ignition (L.O.I.)	BS EN 196-2: 2013 Cl. 4.4.1
	Sulfate content (as SO3)	BS EN 196-2: 2013 Cl. 4.4.2
	Acid-soluble alkali content	BS EN 196-2: 2013 Cl. 4.5.19 (Reference method)
Concrete	Sampling fresh concrete on site	CS1: 2010 + Amd. 1/2017 Section 1
	Slump of fresh concrete	CS1: 2010 + Amd. 1/2017 Section 2 Part I
	Flow table test	CS1: 2010 Section 2 Part IV
	Slump flow test	CS1: 2010 Section 2 Part V
	Stiffening time of fresh concrete	CS1: 2010 Section 3
	Density of compacted fresh concrete	CS1: 2010 Section 5
	Air content of fresh concrete	CS1: 2010 Section 6
	Making test cubes from fresh concrete	CS1: 2010 Section 7
	Curing of test specimens	CS1: 2010 Section 10
	Mixing and sampling of fresh concrete	CS1: 2010 Section 11
	Compressive strength of concrete cubes in the force range 50 kN – 3000 kN	CS1: 2010 Section 12
	Tensile splitting strength of cylindrical specimens	CS1: 2010 Section 13
	Obtaining core samples	CS1: 2010 Section 15
	Compressive strength of concrete cores in the force range 50 kN – 3000 kN	CS1: 2010 Section 15
	Density of hardened concrete	CS1: 2010 Section 16
	Depth of penetration of water under pressure	CS1: 2010 Section 18

Material Tech Company Limited
進科檢測有限公司
105 San Lee Uk Tsuen, Tin Ha Road, Yuen Long, New Territories, Hong Kong
香港新界元朗田廈路新李屋村 105 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Concrete (cont'd)	Concrete's ability to resist chloride ion penetration	CS1: 2010 Section 19
	Bleeding test	ASTM C232-99 Method A ASTM C232-09 Method A ASTM C232-09 Method A with modification
	Temperature monitoring of concrete structure (heat of hydration)	In-house method TP-F034 In-house method TP-F060
	Temperature measurement of fresh concrete	BS 5328: Part 4: 1990 Cl. 3.4(b)
	Temperature rise evaluation test on concrete (TRET Block)	In-house method TP-F033 In-house method TP-F059
	Time of setting of concrete mixtures by penetration resistance	ASTM C403/403M-90 ASTM C403/403M-90 with modifications ASTM C403/403M-16 ASTM C403/403M-16 with modifications
	Water absorption	BS 1881: Part 122: 1983 + Amd. 6108
	Removal of concrete cover to expose reinforcement	Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance and Building Materials Specification Part D Cl. 4.2.1
	Crack survey	Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance and Building Materials Specification Part D Cl. 4.3.14
	Obtaining drilling powder samples	Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance and Building Materials Specification Part D Cl. 6.4
	Suitability of water for making concrete (strength and setting time)	BS EN 196-1: 2016 BS EN 196-3: 2016 in conjunction with the following specification(s): BS EN 1008: 2002 Cl. 4.4
Concrete (chemical analysis)	Chloride content	CS1: 2010 Section 21.10.2
	Cement and aggregate content (by CaO determination)	CS1: 2010 Section 21.6.4, 21.6.6 & 21.6.7
	Sulphate content	CS1: 2010 Section 21.10.3

Material Tech Company Limited
進科檢測有限公司
105 San Lee Uk Tsuen, Tin Ha Road, Yuen Long, New Territories, Hong Kong
香港新界元朗田廈路新李屋村 105 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Concrete - Hardened (chemical analysis)	Chloride content	BS EN 14629: 2007 Cl. 4.3.4.1 (method A)
Concrete (diagnostic)	Carbonation test	BS EN 14630: 2006 Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance and Building Materials Specification Part D Cl. 4.3.1 Method 1 & Method 2
	Covermeter survey	BS 1881: Part 204: 1988 Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance and Building Materials Specification Part D Cl. 4.3.2 Method 1 & Method 2
	Half cell potential measurement	ASTM C876-91 ASTM C876-15 Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance and Building Materials Specification Part D Cl. 4.3.4
	Infrared thermography for detection of building surface defects	Hong Kong Concrete Institute TM1 Issue 2 (2022)
	Resistivity measurement	BS 1881: Part 201: 1986 Cl. 2.3
	Surface hardness measurement	BS 1881: Part 202: 1986 BS EN 12504-2: 2001 BS EN 12504-2: 2012 BS EN 12504-2: 2021 Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance and Building Materials Specification Part D Cl. 4.1.1
	Ultrasonic pulse velocity measurement	ASTM C597-02 BS 1881: Part 203: 1986 (by direct transmission) BS EN 12504-4: 2004 (by direct and semi-direct measurement) BS EN 12504-4: 2021 (by direct and semi-direct measurement) Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance and Building Materials Specification Part D Cl. 4.1.2

Material Tech Company Limited
進科檢測有限公司
105 San Lee Uk Tsuen, Tin Ha Road, Yuen Long, New Territories, Hong Kong
香港新界元朗田廈路新李屋村 105 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Controlled low strength materials	Flowability	ASTM D6103/D6103M-17 in conjunction with the following specification(s): Highways Department Guidance Notes on Use of Self-compacting Backfill Material RD/GN/049 (Sep 2022)
	Load placement capacity (by ball drop test)	ASTM D6024/D6024M-16 in conjunction with the following specification(s): Highways Department Guidance Notes on Use of Self-compacting Backfill Material RD/GN/049 (Sep 2022)
Foundation	Plate load test (PLT)	BS 1377: Part 9: 1990 + Amd. No. 1 Cl. 4.1 (incremental loading / maintain load test) excluding Cl. 4.1.6.1 Buildings Department Code of Practice for Foundations (Apr 2017) Cl. 8.2(2) excluding 8.2(2)(f) to (h)
Ground Grulated Blastfurnace Slag (GGBS)	Activity index	BS EN 196-1: 2016 in conjunction with the following specification(s): BS EN 15167-1: 2006 + Corr. 1: 2006 Cl. 5.3.2.3
	Density	BS EN 196-6: 2010 Annex NC in conjunction with the following specification(s): BS EN 15167-1: 2006 + Corr. 1: 2006 Cl. 5.5g
	Fineness	BS EN 196-6: 2010 (by Blaine method) in conjunction with the following specification(s): BS EN 15167-1: 2006 + Corr. 1: 2006 Cl. 5.3.1
	Initial setting time	BS EN 196-3: 2016 in conjunction with the following specification(s): BS EN 15167-1: 2006 + Corr. 1: 2006 Cl. 5.3.2.2
	Moisture content	BS EN 15167-1: 2006 + Corr. 1: 2006 Annex A
Ground granulated blastfurnace slag (GGBS) (chemical analysis)	Total alkali content (equivalent Na_2O)	BS EN 196-2: 2013 Cl. 4.5.19 (Reference method)

Material Tech Company Limited
進科檢測有限公司
105 San Lee Uk Tsuen, Tin Ha Road, Yuen Long, New Territories, Hong Kong
香港新界元朗田廈路新李屋村 105 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Grout	Making of grout cubes	CS1: 2010 Section 7 with modifications
	Compressive strength of grout cubes in the force range 50 kN to 3000 kN	CS1: 2010 Section 12
	Bleeding and volume change by wick-induced test	BS EN 445: 2007 Cl. 4.5
	Bleeding and free expansion	ASTM C940-98a ASTM C940-98a with modifications ASTM C940-16 ASTM C940-16 with modifications General Specification for Civil Engineering Works (2006) Vol. 2 Cl. 17.60
	Flow of grout (Flow cone method)	ASTM C 939-97 ASTM C 939-02
	Fluidity test by cone method	BS EN 445: 2007 Cl. 4.3.1

Material Tech Company Limited
進科檢測有限公司
105 San Lee Uk Tsuen, Tin Ha Road, Yuen Long, New Territories, Hong Kong
香港新界元朗田廈路新李屋村 105 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Metallic materials	Mass per meter of steel reinforcing bars	CS2: 2012 (Rev. 5) Cl. 6.1 & 6.2
	Tensile test of steel reinforcing bars for reinforcement of concrete in the force range 10 kN – 2000 kN	BS EN ISO 6892-1: 2019 Cl. 10.3.3 Method B in conjunction with the following specification(s): CS2: 2012 (Rev. 5) Cl. 6.1 & 6.4
	Rebend test of steel reinforcing bars for reinforcement of concrete	CS2: 2012 (Rev. 5) Cl. 6.1 & 6.5
	Bond property of steel reinforcing bars by surface geometry measurement	CS2: 2012 (Rev. 5) Cl. 6.1 & 6.7.2
	Tensile test & slip/permanent elongation test of a mechanical coupler for reinforcing bar in the force range 10 kN - 2000 kN	BS 8110: Part 1: 1997 Cl. 3.12.8.16.2 General Specification for Civil Engineering Works (2006) Vol. 2 Cl. 15.35 Buildings Department Code of Practice for Structural Use of Concrete (2013) Cl. 3.2.8.3
	Tensile test of of structural steel section in the force range 10 kN – 2000 kN	BS EN ISO 6892-1: 2016 BS EN ISO 6892-1: 2009 BS EN 10002-1: 2001 in conjunction with the following specification(s): BS EN 10025-1: 2004 Cl. 10.2.1 BS EN 10025-2: 2004 Cl. 10.2 BS EN 10113-1: 1993 Cl. 8.6.2.1 BS EN 10113-2: 1993 Cl. 7.4.1 BS EN 10113-3: 1993 Cl. 7.4.1 BS EN 10155: 1993 Cl. 8.7.2.1 BS EN 10137-1: 1996 Cl. 8.5.2.2 BS EN 10137-2: 1996 Cl. 7.4.1 BS EN 10210-1: 2006 Cl. 9.2 BS EN 10219-1: 2006 Cl. 6.7.1 & 9.2.2
	Tensile test of metallic materials in the force range 10 kN – 2000 kN	BS EN 10002-1: 2001 BS EN ISO 6892-1: 2009 BS EN ISO 6892-1: 2016

Material Tech Company Limited
進科檢測有限公司
105 San Lee Uk Tsuen, Tin Ha Road, Yuen Long, New Territories, Hong Kong
香港新界元朗田廈路新李屋村 105 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Metallic materials (cont'd)	Static tension test, static compression test, cyclic tension & compression tests for mechanical connector systems (Type 2 Splice) for steel reinforcing bars in the force range 10 kN - 2000 kN	ICC Evaluation Service, Inc. AC133 (Approved May 2008, Effective 1 Jun 2008) Cl. 4.1.2 ICC Evaluation Service, Inc. AC133 (Approved May 2008, Effective 1 Jun 2008) Cl. 4.1.2 with modifications ICC Evaluation Service, Inc. AC133 (Approved Jan 2010, Effective 1 Jul 2010) Cl. 4.1.2 ICC Evaluation Service, Inc. AC133 (Approved Jan 2010, Effective 1 Jul 2010) Cl. 4.1.2 with modifications Buildings Department Code of Practice for Structural Use of Concrete (2013) Cl. 3.2.8.4(b), (c) & (d)
	Charpy V-notch impact test of metallic materials	BS EN 10045-1:1990 BS EN ISO 148-1: 2016 in conjunction with the following specification(s): BS EN 10210-1: 2006 Cl. 9.2.3 BS EN 10219-1: 2006 Cl. 9.2.3 BS EN 10025-1: 2004 Cl. 10.2.2 BS EN 10025-2: 2004 Cl. 10.2 BS EN 10025-4: 2004 Cl. 10.2
	Vickers hardness test of metallic materials	BS EN 23878: 1993 BS EN ISO 6507-1: 2005
Metallic materials (non-destructive)	Ultrasonic test of H beams with parallel flanges and IPE beams (manual method)	BS EN 10306: 2002
	Ultrasonic test of steel flat products (reflection method)	BS EN 10160: 1999
	Ultrasonic test of steel plate, strip and wide flat (manual method)	BS 5996: 1993

Material Tech Company Limited
進科檢測有限公司
105 San Lee Uk Tsuen, Tin Ha Road, Yuen Long, New Territories, Hong Kong
香港新界元朗田廈路新李屋村 105 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Pipes		
- Copper pipes & fittings	Bending test of copper and copper alloys (seamless) round copper tubes for water, gas in sanitary, and heating applications	BS EN ISO 8491: 2004 In-house method TP-W001 in conjunction with the following specification(s): BS EN 1057: 2006 +A1: 2010 Cl. 10.6
	Dimensions and tolerances of copper and copper alloys (seamless) round copper tubes for water, gas in sanitary, and heating applications	In-house method TP-W001 in conjunction with the following specification(s): BS EN 1057: 2006 +A1: 2010 Cl. 7.3.3, 7.3.4 & 7.3.5 Table 4 & 5
	Drift expanding test of copper and copper alloys (seamless) round copper tubes for water, gas in sanitary, and heating applications	BS EN ISO 8493: 2004 In-house method TP-W001 in conjunction with the following specification(s): BS EN 1057: 2006 +A1: 2010 Cl. 10.7
	Free from defects test (hydrostatic test) of copper and copper alloys (seamless) round copper tubes for water, gas in sanitary, and heating applications	In-house method TP-W001 in conjunction with the following specification(s): BS EN 1057: 2006 +A1: 2010 Annex C2
- Non-alloy steel tubes	Dimensions, masses and tolerances of non-alloy steel tubes suitable for welding and threading	In-house method TP-W002 in conjunction with the following specification(s): BS EN 10255: 2004 + A1: 2007 (E) Cl.8.4 Table 2
	Flattening test of of non-alloy steel tubes suitable for welding and threading	BS EN ISO 8492: 2013 In-house method TP-W002 in conjunction with the following specification(s): BS EN 10255: 2004 + A1: 2007 (E)
	Leaktightness test of non-alloy steel tubes	In-house method TP-W004 in conjunction with the following specification(s): BS EN 10255: 2004 + A1: 2007 Cl. 9.6
	Visual examination of non-alloy steel tubes suitable for welding and threading	In-house method TP-W002 in conjunction with the following specification(s): BS EN 10255: 2004 + A1: 2007 (E) Cl. 8.3

Material Tech Company Limited
進科檢測有限公司
105 San Lee Uk Tsuen, Tin Ha Road, Yuen Long, New Territories, Hong Kong
香港新界元朗田廈路新李屋村 105 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Pulverized fuel ash (PFA)	Fineness	BS 3892: Part 1: 1997 Annex D in conjunction with the following specification(s): BS 3892: Part 1: 1997 Cl. 6
	Initial setting time	BS EN 196-3: 2016 in conjunction with the following specification(s): BS 3892: Part 1: 1997 Cl. 10 BS 3892: Part 1: 1997 Cl. 10 with modifications BS EN 450-1: 2005 + A1: 2007 Cl. 5.3.5
	Moisture content	BS 3892: Part 1: 1997 Annex C BS EN 451-2: 2017 in conjunction with the following specification(s): BS EN 450-1: 2005 + A1: 2007 Cl. 5.3.1
	Particle density	BS EN 196-6: 1992 Annex NC BS EN 196-6: 2010 Annex NC in conjunction with the following specification(s): BS 3892: Part 1: 1997 Cl. 7 BS EN 450-1: 2005 + A1: 2007 Cl. 5.3.4
	Soundness	BS EN 196-3: 2016 in conjunction with the following specification(s): BS 3892: Part 1: 1997 Cl. 11 BS 3892: Part 1: 1997 Cl. 11 with modifications BS EN 450-1: 2005 + A1: 2007 Cl. 5.3.3
	Strength factor	BS 3892: Part 1: 1997 Annex F BS 3892: Part 1: 1997 Annex F with modifications in conjunction with the following specification(s): BS 3892: Part 1: 1997 Cl. 9
	Water requirement	BS 3892: Part 1: 1997 Annex E BS EN 450-1: 2005 + A1: 2007 Annex B in conjunction with the following specification(s): BS 3892: Part 1: 1997 Cl. 8 BS 3892: Part 1: 1997 Annex E with modifications BS EN 450-1: 2005 + A1: 2007 Cl. 5.3.6

Material Tech Company Limited
進科檢測有限公司
105 San Lee Uk Tsuen, Tin Ha Road, Yuen Long, New Territories, Hong Kong
香港新界元朗田廈路新李屋村 105 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Pulverized fuel ash (PFA) (chemical analysis)	Loss on ignition (L.O.I.)	BS EN 196-2: 2013 Cl. 4.4.1 (using 1h ignition time)
	Sulfate content (as SO3)	BS EN 196-2: 2013 Cl. 4.4.2
	Chloride content (Cl^-)	BS EN 196-2: 2013 Cl. 4.5.16
	Acid soluble alkali content	BS EN 196-2: 2013 Cl. 4.5.19 (Reference method)
Road surfaces	Luminance coefficient under diffuse illumination (Qd) and retro-reflected luminance (R_L) of road markings	BS EN 1436: 2007(E) Annex A & B excluding Annex B.7
	Permeability of friction coarse materials	General Specification for Civil Engineering Works (2006) Vol. 1 App. 9.1
	Skid resistance of road surfaces/markings using a portable pendulum tester	BS EN 1436: 1998 Annex D BS EN 1436: 2007 + A1: 2008 Annex D Highways Department (Research and Development Division) Guidance Notes on Road testing - RD/GN/009 (Sep 1989)
	Surface regularity of carriageways (by 3 meter / rolling straightedge method)	General Specification for Civil Engineering Works (2006) Vol. 1 App. 10.55 Highways Department (Research and Development Division) Guidance Notes on Road Testing - RD/GN/009 (Sep 1989)
	Texture depth of carriageways (by sand patch test)	General Specification for Civil Engineering Works (2006) Vol. 1 App. 10.1 Highways Department (Research and Development Division) Guidance Notes on Road testing - RD/GN/009 (Sep 1989)
	Thickness of road marking (by micrometer method)	BS 3262: Part 3: 1989 + Amd. 8785 & 10205 App. B in conjunction with the following specification(s): General Specification for Civil Engineering Works (2006) Vol. 1 Cl. 12.34 (3)
Rock	Dropping test of rock armour to determine the resistance to fracture	General Specification for Civil Engineering Works (2006) Vol. 2 Cl. 21.97 (1) & (2) & Cl. 21.99 (2)

Material Tech Company Limited
進科檢測有限公司
105 San Lee Uk Tsuen, Tin Ha Road, Yuen Long, New Territories, Hong Kong
香港新界元朗田廈路新李屋村 105 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Soil (Phase I)	Sample preparation for phase I tests	GEOSPEC 3: 2001 Test 4 GEOSPEC 3: 2017 Test 4
	Moisture content by oven-drying at 45℃ ± 5℃	GEOSPEC 3: 2001 Test 5.1 GEOSPEC 3: 2017 Test 5.1
	Moisture content by oven-drying at 105℃ ± 5℃	GEOSPEC 3: 2001 Test 5.2 GEOSPEC 3: 2017 Test 5.2
	Comparative test for the determination of moisture content by oven-drying	GEOSPEC 3: 2001 Test 5.3 GEOSPEC 3: 2017 Test 5.3
	Liquid limit, plastic limit, plasticity index and liquidity index	BS 1377-2: 1990 GEOSPEC 3: 2001 Test 6.1 and 6.2 GEOSPEC 3: 2017 Test 6.1 and 6.2
	Particle density by gas jar method	GEOSPEC 3: 2001 Test 7.1 GEOSPEC 3: 2017 Test 7.1
	Particle density by small pyknometer method	GEOSPEC 3: 2001 Test 7.2 GEOSPEC 3: 2017 Test 7.2
	Particle size distribution by wet sieving (with dispersant)	GEOSPEC 3: 2001 Test 8.1 GEOSPEC 3: 2017 Test 8.1
	Particle size distribution by wet sieving (without dispersant)	GEOSPEC 3: 2001 Test 8.2 GEOSPEC 3: 2017 Test 8.2
	Particle size distribution by hydrometer (with dispersant)	GEOSPEC 3: 2001 Test 8.5 GEOSPEC 3: 2017 Test 8.5
	Particle size distribution by hydrometer (without dispersant)	GEOSPEC 3: 2001 Test 8.6 GEOSPEC 3: 2017 Test 8.6
	Construction of a continuous particle size distribution curve from the results of wet sieving and sedimentation tests	GEOSPEC 3: 2001 Test 8.7 GEOSPEC 3: 2017 Test 8.7
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a 1000cc mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.1 GEOSPEC 3: 2017 Test 10.1

Material Tech Company Limited
進科檢測有限公司
105 San Lee Uk Tsuen, Tin Ha Road, Yuen Long, New Territories, Hong Kong
香港新界元朗田廈路新李屋村 105 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Soil (Phase I) (cont'd)	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a 1000cc mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.2 GEOSPEC 3: 2017 Test 10.2
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a CBR mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.3 GEOSPEC 3: 2017 Test 10.3
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a CBR mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.4 GEOSPEC 3: 2017 Test 10.4
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a 1000cc mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.5 GEOSPEC 3: 2017 Test 10.5
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a 1000cc mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.6 GEOSPEC 3: 2017 Test 10.6
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a CBR mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.7 GEOSPEC 3: 2017 Test 10.7
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a CBR mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.8 GEOSPEC 3: 2017 Test 10.8
	In-situ bulk density and in-situ dry density of soils by the sand replacement method suitable for fine- and medium-grained soils (with small pouring cylinder)	GEOSPEC 3: 2001 Test 11.1 GEOSPEC 3: 2017 Test 11.1
	In-situ bulk density and in-situ dry density of soils by the sand replacement method suitable for fine-, medium-, and coarse-grained soils (with large pouring cylinder)	GEOSPEC 3: 2001 Test 11.2 GEOSPEC 3: 2017 Test 11.2

Material Tech Company Limited
進科檢測有限公司
105 San Lee Uk Tsuen, Tin Ha Road, Yuen Long, New Territories, Hong Kong
香港新界元朗田廈路新李屋村 105 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Soil (Phase I) (cont'd)	Relative compaction of fill material	Buildings Department PNAP 55 (2005) Cl. 4 App. A GEOSPEC 3: 2001 Test 11.4 GEOSPEC 3: 2017 Test 11.4
	Coefficient of uniformity	General Specification for Civil Engineering Works (2006) Vol. 1 Cl. 6.72(4)
	Particle size distribution of fill materials	General Specification for Civil Engineering Works (2006) Vol. 1 Cl. 6.70 & 6.72(3)
	Sand equivalent value of soils and fine aggregates	ASTM D2419-14
Structural fixings	Tensile proof load test of anchors and dowel bars by incremental loading in the force range 5 kN to 400 kN	BS 5080: Part 1: 1993 Cl. 6, 7.1.1 & 7.1.3 with modifications
	Tensile proof load test of drilled-in anchors used for cantilevered structure/hanger/curtain wall remedial works by incremental loading in the force range 5 kN – 400 kN	Buildings Department PNAP APP-169 (Oct 2023) App. A
	Tensile proof load test of drilled-in anchors used for works other than cantilevered structure/ hanger/curtain wall remedial works in the force range 5 kN – 400 kN	Buildings Department PNAP APP-169 (Oct 2023) App. B
	Tensile proof load test for cementitious or polymer based grouted bolts or dowels or reinforcing bars works in the force range 5 kN – 400 kN	Buildings Department PNAP APP-169 (Oct 2023) App. C
Valves	Hydrostatic shell and seat tests of copper alloy globe, globe stop and check, check and gate valves	BS 5154: 1991 Cl. 11 BS EN 12266-1: 2012
	Hydrostatic shell and seat tests of predominantly key-operated cast iron gate valves	BS 5163: 1986 Cl. 19 (Amd. 1 & 2) BS EN 12266-1: 2012

Material Tech Company Limited
進科檢測有限公司
105 San Lee Uk Tsuen, Tin Ha Road, Yuen Long, New Territories, Hong Kong
香港新界元朗田廈路新李屋村 105 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Water (Chemical analysis)	Total alkalinity	APHA 23e 2320B
	Chloride content	BS EN 1008: 2002 Cl. 6.1.3 & BS EN 196-21: 1992 Cl. 4
	Sulfate content	BS EN 1008: 2002 Cl. 6.1.3 & BS EN 196-2:2013 Cl. 4.4.2
	Acid soluble alkali content (equivalent Na_2O)	BS EN 1008: 2002 Cl. 6.1.3 & BS EN 196-21: 1992 Cl. 7
	Total dissolved solids content	BS 1377-3: 1990 Cl. 8
	pH value	BS 1377-3: 1990 Cl. 9

Material Tech Company Limited
進科檢測有限公司
105 San Lee Uk Tsuen, Tin Ha Road, Yuen Long, New Territories, Hong Kong
香港新界元朗田廈路新李屋村 105 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Welds (non-destructive)	Visual examination	BS 5289: 1976 BS EN 970: 1997 BS EN ISO 17637: 2011 in conjunction with the following specification(s): BS 4515-1: 2000 Table 5 BS 5135: 1984 Table 18 & 19 BS EN 25817: 1992 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2005) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b
	Visual examination and bend test on stud connectors	<Visual examination as follows:> BS 5289: 1976 BS EN 970: 1997 BS EN ISO 17637: 2011 < together with the following bend test method:> BS 5400-6: 1999 Cl. 5.5.4(b) BS EN ISO 14555: 2014 Cl. 11.2, 11.3 (excluding Torque wrench method), 12.2 & 12.3 Buildings Department Code of Practice for the Structural Use of Steel (2005) Cl. 14.3.7.3 Buildings Department Code of Practice for the Structural Use of Steel (2011) Cl. 14.3.7.3
	Magnetic particle test (magnetic flow method, colour contrast technique using permanent magnets & A.C. yokes)	BS 6072: 1981 (1986) BS EN 1290: 1998 BS EN ISO 9934-1: 2001 BS EN ISO 17638: 2009 in conjunction with the following specification(s): BS 4515-1: 2000 Table 5 BS 5135: 1984 Table 18 & 19 BS EN 25817: 1992 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2005) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b

Material Tech Company Limited
進科檢測有限公司
105 San Lee Uk Tsuen, Tin Ha Road, Yuen Long, New Territories, Hong Kong
香港新界元朗田廈路新李屋村 105 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Welds (non-destructive) (cont'd)	Ultrasonic test	BS 3923: Part 1: 1986 (Level 1, 2A, 2B & 3) (butt welds in plates and 'T'-joint welds) BS EN 1714: 1998 (Level A, B & C) (butt welds in plates and 'T'-joint welds) BS EN ISO 17640: 2010 (Level A, B & C) (butt welds in plates and 'T'-joint welds) in conjunction with the following specification(s): BS 4515-1: 2000 Table 5 BS 5135: 1984 Table 18 & 19 BS 5400-6: 1999 Cl. 5.5.2.4.2 BS EN 25817: 1992 Table 1 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2005) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b
Steel (chemical analysis) - Carbon steel and low alloy steel	Elemental composition: - - Carbon - Sulphur - Phosphorus - Nitrogen - Copper - Manganese - Chromium - Molybdenum - Vanadium - Nickel	In-house method TP-H057 (Spark-OES)
	Carbon equivalent value (CEV)	In-house method TP-H057 (by calculation)

Material Tech Company Limited
進科檢測有限公司
中國廣東省東莞市高埗鎮低涌村創興路廉商智造產業園 G 棟一樓四、五區

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Aggregates	Sampling	BS 812: Part 102: 1989 CS3: 2013 Section 8
	Particle size distribution	BS 812: Section 103.1: 1985 + Amd. 6003 (by sieve analysis) BS EN 933-1: 2012 CS3: 2013 Section 10 (by sieve analysis)
	Flakiness index	BS 812: Section 105.1: 1989 BS EN 933-3: 2012 CS3: 2013 Section 11
	Elongation index	BS 812: Section 105.2: 1990 CS3: 2013 Section 12
	Methylene blue value	CS3: 2013 Section 13
	Los Angeles value	CS3: 2013 Section 14
	Aggregate impact value	BS 812: Part 112: 1990 + Amd. 8772 CS3: 2013 Section 15
	Ten per cent fines value	BS 812: Part 111: 1990 CS3:2013 Section 16
	Particle densities and water absorption	BS 812: Part 2: 1995 + Amd. 9195 & 10379 Cl. 5 CS3: 2013 Section 17
	Moisture content	BS 812: Part 109: 1990 (by oven drying method) CS3: 2013 Section 18 (by oven drying method)
	Soundness	BS 812: Part 121: 1989 BS 6349: Part 1: 1984 App. B BS EN 1367-2: 2009 CS3: 2013 Section 19
	Drying shrinkage	CS3: 2013 Section 20
	Alkali silica reaction potential by ultra-accelerated mortar-bar test	CS1: 2010 Section 22
	Aggregate crushing value	BS 812: Part 110: 1990
	Bulk density, voids and bulking	BS 812: Part 2: 1995 + Amd. 9195 & 10379
	Clay, silt and dust content	BS 812: Part 1: 1975 + Amd. 4875 (by decantation method)

Material Tech Company Limited
進科檢測有限公司
中國廣東省東莞市高埗鎮低涌村創興路廉商智造產業園 G 棟一樓四、五區

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Aggregates (cont'd)	Compacting fraction value of aggregates for granular bed	General Specification for Civil Engineering Works (2006) Vol. 1 App. 5.2 General Specification for Civil Engineering Works (2020) Vol. 1 App. 5.2
	Resistance of aggregates to fragmentation	BS EN 1097-2: 2010 Cl. 5
	Resistance to degradation of small size coarse aggregate by abrasion and impact in Los Angeles machine	ASTM C131-96 with modifications ASTM C131-06 with modifications ASTM C131/C131M-20 with modifications
	Resistance to degradation of large size coarse aggregate by abrasion and impact in Los Angeles Machine	ASTM C535-96 with modifications ASTM C535-16 with modifications
	Shell content in coarse aggregates	BS 812: Part 106: 1985
	Water absorption	BS EN 1097-6: 2013 Annex B
Cement	Compressive strength of broken mortar prisms in the force range 10 kN – 300 kN	BS EN 196-1: 2005 BS EN 196-1: 2016
	Density	BS EN 196-6: 2010 Annex NC
	Fineness	BS EN 196-6: 2010 (by Blaine method)
	Flexural strength of mortar prisms	BS EN 196-1: 2005 BS EN 196-1: 2016
	Setting times	BS EN 196-3: 2005 + Al: 2008 BS EN 196-3: 2016
	Soundness	BS EN 196-3: 2005 + Al: 2008 BS EN 196-3: 2016
	Standard consistence	BS EN 196-3: 2005 + Al: 2008 BS EN 196-3: 2016

Material Tech Company Limited
進科檢測有限公司
中國廣東省東莞市高埗鎮低涌村創興路廉商智造產業園 G 棟一樓四、五區

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Concrete	Sampling fresh concrete on site	CS1: 2010 + Amd. 1/2017 Section 1
	Slump of fresh concrete	CS1: 2010 + Amd. 1/2017 Section 2 Part I
	Making test cubes from fresh concrete	CS1: 2010 Section 7
	Curing of test specimens	CS1: 2010 Section 10
	Mixing and sampling of fresh concrete	CS1: 2010 Section 11
	Compressive strength of concrete cubes in the force range 50 kN – 3000 kN	CS1: 2010 Section 12
	Density of hardened concrete	CS1: 2010 Section 16
	Temperature measurement of fresh concrete	BS 5328: Part 4: 1990 Cl. 3.4(b)
	Water absorption	BS 1881: Part 122: 2011
	Suitability of water for making concrete (strength and setting time)	BS EN 196-1: 2016 BS EN 196-3: 2016 in conjunction with the following specification(s): BS EN 1008: 2002 Cl. 4.4
Ground granulated blastfurnace slag (GGBS)	Activity index	BS EN 196-1: 2016 in conjunction with the following specification(s): BS EN 15167-1: 2006 + Corr. 1: 2006 Cl. 5.3.2.3
	Density	BS EN 196-6: 2010 Annex NC in conjunction with the following specification(s): BS EN 15167-1: 2006 + Corr. 1: 2006 Cl. 5.5g
	Fineness	BS EN 196-6: 2010 (by Blaine method) in conjunction with the following specification(s): BS EN 15167-1: 2006 + Corr. 1: 2006 Cl. 5.3.1
	Initial setting time	BS EN 196-3: 2016 in conjunction with the following specification(s): BS EN 15167-1: 2006 + Corr. 1: 2006 Cl. 5.3.2.2
	Moisture content	BS EN 15167-1: 2006 Annex A

Material Tech Company Limited
進科檢測有限公司
中國廣東省東莞市高埗鎮低涌村創興路廉商智造產業園 G 棟一樓四、五區

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Pulverized fuel ash (PFA)	Activity index	BS EN 196-1: 2016 in conjunction with the following specification(s): BS EN 450-1: 2012 Cl. 5.3.2
	Fineness	BS 3892: Part 1: 1997 Annex D BS EN 451-2: 2017 in conjunction with the following specification(s): BS 3892: Part 1: 1997 Cl. 6 BS EN 450-1: 2005 + A1: 2007 Cl. 5.3.1
	Initial setting time	BS EN 196-3: 2016 in conjunction with the following specification(s): BS 3892: Part 1: 1997 Cl. 10 BS EN 450-1: 2005 + A1: 2007 Cl. 5.3.5
	Moisture content	BS 3892: Part 1: 1997 Annex C
	Particle density	BS EN 196-6: 1992 Annex NC BS EN 196-6: 2010 Annex NC in conjunction with the following specification(s): BS 3892: Part 1: 1997 Cl. 7 BS EN 450-1: 2005 + A1: 2007 Cl. 5.3.4
	Soundness	BS EN 196-3: 2016 in conjunction with the following specification(s): BS 3892: Part 1: 1997 Cl. 11 BS EN 450-1: 2005 + A1: 2007 Cl. 5.3.3
	Strength factor	BS 3892: Part 1: 1997 Annex F in conjunction with the following specification(s): BS 3892: Part 1: 1997 Cl. 9
	Water requirement	BS 3892: Part 1: 1997 Annex E BS EN 450-1: 2005 + A1: 2007 Annex B in conjunction with the following specification(s): BS 3892: Part 1: 1997 Cl. 8 BS EN 450-1: 2005 + A1: 2007 Cl. 5.3.6

Ariken Biotech Japan Testing Laboratory Co., Ltd.
有研生物科技日本化驗所有限公司

ADDRESS 地址	:	Room 2001-2, 20/F, Trendy Centre, 682-684 Castle Peak Road, Lai Chi Kok, Kowloon, Hong Kong. 香港九龍荔枝角青山道682-684號潮流工貿中心20樓2001-2室
ENQUIRY 查詢	:	Ms Vanessa MANALO, Laboatory Manager
TELEPHONE 電話	:	2606 7178
FAX 傳真	:	2310 2990
E-MAIL 電郵	:	lab@arikenlab.com.hk / info@arikenlab.com.hk
WEBSITE ADDRESS 網址	:	http://arikenlab.com.hk
CLIENTELE 服務對象	:	Public 公眾

Ariken Biotech Japan Testing Laboratory Co., Ltd.
有研生物科技日本化驗所有限公司

ADDRESS **地址**	:	Room 2001-2, 20/F, Trendy Centre, 682-684 Castle Peak Road, Lai Chi Kok, Kowloon, Hong Kong. 香港九龍荔枝角青山道 682-684 號潮流工貿中心 20 樓 2001-2 室
ACCREDITED TEST CATEGORY **認可測試類別**	:	Food 食品

Ariken Biotech Japan Testing Laboratory Co., Ltd.
有研生物科技日本化驗所有限公司
Room 2001-2, 20/F, Trendy Centre, 682-684 Castle Peak Road, Lai Chi Kok, Kowloon, Hong Kong.
香港九龍荔枝角青山道 682-684 號潮流工貿中心 20 樓 2001-2 室

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Microbiological tests :-	
General foodstuff (excluding milk and dairy products)	Total Aerobic plate count	AOAC Official Methods 990.12 (2002) (3M Petrifilm Method)
	Total *Coliform* count	AOAC Official Methods 991.14 (2002) (3M Petrifilm Method)
General foodstuff	*E. coli* count	AOAC Official Methods 991.14 (2002) (3M Petrifilm Method)
	Total yeasts and molds count	US FDA Bacteriological Analytical Manual Online (BAM online) Chapter 18, April 2001 (Spread Plate Method)
	Enterobacteriaceae count	ISO 21528-2:2004
	Detection of *Salmonella spp.*	*Salmonella* PRECIS (ONE Broth Salmonella and Brilliance™ Salmonella Agar, confirmed by Oxoid Salmonella Latex Test) AFNOR Validation Certificate no. UNI 03/06 – 12/07
Selected Types of Processed and Prepared Foods	*Staphylococcus aureus*	AOAC Official Method 2003.07 (2006) (3M Petrifilm Method)
Selected Dairy Foods	*Staphylococcus aureus*	AOAC Official Method 2003.08 (2003) (3M Petrifilm Method)
Selected Meat, Seafood and Poultry	*Staphylococcus aureus*	AOAC Official Method 2003.11 (2007) (3M Petrifilm Method)

MINSEN Testing (Hong Kong) Limited
明晟檢測(香港)有限公司

ADDRESS 地址	:	Units C & D, 12/F, Tins' Centre Block II, 3 Hung Cheung Road, Tuen Mun, New Territories, Hong Kong 香港新界屯門洪祥路3號田氏中心2座12樓C及D室
ENQUIRY 查詢		Mr HUANG Jian-min, Managing Director 黃建閩先生，董事總經理
TELEPHONE 電話		2153 2619
FAX 傳真		2153 2629
E-MAIL 電郵		mt@minsen.com.hk
CLIENTELE 服務對象		Public 公眾

MINSEN Testing (Hong Kong) Limited
明晟檢測(香港)有限公司

ADDRESS
地址

Main Laboratory	:	Units C & D, 12/F, Tins' Centre Block II, 3 Hung Cheung Road, Tuen Mun, New Territories, Hong Kong 香港新界屯門洪祥路 3 號田氏中心 2 座 12 樓 C 及 D 室
Branch Laboratory	:	Unit F2, G/F, Tuen Mun Industrial Centre, 2 San Ping Circuit, Tuen Mun, New Territories, Hong Kong 香港新界屯門新平街 2 號屯門工業中心地下 F2 室
ACCREDITED TEST CATEGORIES **認可測試類別**	:	Calibration Services 校正服務 Construction Materials 建築材料

MINSEN Testing (Hong Kong) Limited
明晟檢測(香港)有限公司
Units C & D, 12/F, Tins' Centre Block II, 3 Hung Cheung Road, Tuen Mun, New Territories, Hong Kong
香港新界屯門洪祥路 3 號田氏中心 2 座 12 樓 C 及 D 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Construction materials testing equipment		
- Cement grout flow cone	Verification in accordance with in-house procedure MTTP-CA-11-002 for the performance as specified in: ASTM C939-97 Cl. 8	
	Time of efflux of water from cone: 8.0 s	0.07 s
- Compacting bar	Verification in accordance with in-house procedure MTTP-CA-11-003 for the dimensional and mass requirements as specified in: CS1: 1990 Vol. 1 (AMD 1102) Cl. A9, or CS1: 2010 Vol. 1 Cl. A10	
	Dimensions of ramming face: 25 mm x 25 mm	0.1 mm
	Length: 380 mm	0.2 mm
	Mass: 1.8 kg	10 g
- Concrete test cube mould	Verification in accordance with in-house procedure MTTP-CA-11-001 for the dimensional requirements as specified in CS1: 1990 Vol. 1 (AMD 1102) Cl. A21 <***Excluding***> A21.2(e), or CS1: 2010 Vol. 1 Cl. A25	
	Dimensions: 100 mm or 150 mm	0.05 mm
	Thickness of base plate: minimum 10 mm	0.05 mm
	Flatness: not more than 0.03 mm or 0.06 mm	0.01 mm
	Squareness / Perpendicularity: 0.5 mm	0.02 mm
	Parallelism: 1 mm	0.05 mm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

MINSEN Testing (Hong Kong) Limited
明晟檢測(香港)有限公司
Units C & D, 12/F, Tins' Centre Block II, 3 Hung Cheung Road, Tuen Mun, New Territories, Hong Kong
香港新界屯門洪祥路 3 號田氏中心 2 座 12 樓 C 及 D 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Construction materials testing equipment (cont'd)		
- Curing tank	On-site verification for the following parameters in accordance with in-house procedure MTTP-CA-11-005	
	Temperature distribution at a range of (27 ± 3) ℃	0.1 K
	Efficiency of circulation	30 s
- Drying oven	On-site verification of temperature and temperature variation in accordance with AS 1289.0 - 1991 c. 4.2.1 (with modification) over the following range :	
	Temperature: 10 ℃ to 150 ℃	1.0 K
	On-site calibration for the following parameter in accordance with in-house procedure MTTP-CA-11-006	
	Evaporation rate: 0 g/hr to 50 g/hr	2.0 g/hr

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

MINSEN Testing (Hong Kong) Limited
明晟檢測(香港)有限公司
Units C & D, 12/F, Tins' Centre Block II, 3 Hung Cheung Road, Tuen Mun, New Territories, Hong Kong
香港新界屯門洪祥路 3 號田氏中心 2 座 12 樓 C 及 D 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Construction materials testing equipment (cont'd)		
- Flow table apparatus for determination of flow of fresh concrete	Verification in accordance with in-house method MTTP-CA-11-009 for the dimensional and mass requirements as specified in CS 1: 2010 Vol. 1 Cl. A15.1, A15.2, A15.3 and A15.5	
	Flow table:	
	Dimensions of metal plate: 700 mm x 700 mm	1 mm
	Thickness: minimum 2 mm	0.3 mm
	Diameter of central circle: 210 mm	0.3 mm
	Fall height: 40 mm	0.3 mm
	Mass: 16 kg	5 g
	Mould:	
	Internal diameter of base: 200 mm	0.3 mm
	Internal diameter of top: 130 mm	0.3 mm
	Height: 200 mm	0.3 mm
	Thickness: minimum 1.5 mm	0.3 mm
	Tamping bar:	
	Dimensions of square section: 40 mm x 40 mm	0.3 mm
	Length of square section: 200 mm	0.3 mm
	Length of circular handle: 120 mm to 150 mm	0.3 mm
	Measuring jigs:	
	Dimensions: 50 mm x 50 mm x 100 mm	0.3 mm
- Rebound hammer	Calibration of rebound value in accordance with in-house procedure MTTP-CA-11-008 using an anvil complying with BS EN 12504-2: 2001 Cl. 4.2	1 rebound count

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

MINSEN Testing (Hong Kong) Limited
明晟檢測(香港)有限公司
Units C & D, 12/F, Tins' Centre Block II, 3 Hung Cheung Road, Tuen Mun, New Territories, Hong Kong
香港新界屯門洪祥路 3 號田氏中心 2 座 12 樓 C 及 D 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Construction materials testing equipment (cont'd)		
- Test sieve of perforated plate	Verification in accordance with in-house procedure MTTP-CK-SR11-010A for the dimensional requirements as specified in BS 410: 1986	
	Aperture size: 4 mm to 125 mm	0.04 mm
	Bridge width: 0.9 mm to 20 mm	0.04 mm
	Verification in accordance with in-house procedure MTTP-CK-SR11-010D for the dimensional requirements as specified in BS 410-2: 2000, or ISO 3310-2: 1999	
	Round hole size: 1 mm to 4 mm	5 μm to 40 μm
	Round hole size: 4 mm to 125 mm	0.04 mm
	Square hole size: 4 mm to 125 mm	0.04 mm
	Pitch: 1 mm to 200 mm	0.05 mm
	Plate thickness: 0.5 mm to 4 mm	0.1 mm
- Test sieve of woven wire cloth	Verification in accordance with in-house procedure MTTP-CK-SR11-010B for the dimensional requirements as specified in BS 410: 1986	
	Aperture size: 0.032 mm to 4 mm	4 μm to 40 μm
	Wire diameter: 0.028 mm to 1.5 mm	4 μm to 40 μm
	Verification in accordance with in-house procedure MTTP-CK-SR11-010C for the dimensional requirements as specified in BS 410-1: 2000, or ISO 3310-1:2000	
	Aperture size: 0.02 mm to 125 mm	4 μm to 40 μm
	Wire diameter: 0.015 mm to 10 mm	4 μm to 40 μm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

MINSEN Testing (Hong Kong) Limited
明晟檢測(香港)有限公司
Units C & D, 12/F, Tins' Centre Block II, 3 Hung Cheung Road, Tuen Mun, New Territories, Hong Kong
香港新界屯門洪祥路 3 號田氏中心 2 座 12 樓 C 及 D 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Construction materials testing equipment (cont'd)		
- Slump cone	Verification in accordance with in-house procedure MTTP-CA-11-004 for the dimensional requirements as specified in CS1: 1990 Vol. 1 (AMD 1102) Cl. A4, or CS1: 2010 Vol. 1 Cl. A5	
	Wall thickness: minimum 1.5 mm	0.05 mm
	Internal diameter of base: 200 mm	0.2 mm
	Internal diameter of top: 100 mm	0.2 mm
	Height: 300 mm	0.2 mm
- Tamping rod	Verification in accordance with in-house procedure MTTP-CA-11-004 for the dimensional requirements as specified in CS1: 1990 Vol. 1 (AMD 1102) Cl. A5, or CS1: 2010 Vol. 1 Cl. A6	
	Diameter: 16 mm	0.1 mm
	Length: 600 mm	0.2 mm
- Vane shear tester	Calibration for torque in accordance with in-house procedure MTTP-CA-11-019 over the following range :	
	1 N·m to 50 N·m	1.5% of reading

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

MINSEN Testing (Hong Kong) Limited
明晟檢測(香港)有限公司
Units C & D, 12/F, Tins' Centre Block II, 3 Hung Cheung Road, Tuen Mun, New Territories, Hong Kong
香港新界屯門洪祥路 3 號田氏中心 2 座 12 樓 C 及 D 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED[@]** 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electricity and magnetism - Time and frequency - Stopwatch	Calibration for time in accordance with in-house procedure MTTP-CA-08-001 over the following range : 1 s to 3600 s	 0.03 s

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

MINSEN Testing (Hong Kong) Limited
明晟檢測(香港)有限公司
Units C & D, 12/F, Tins' Centre Block II, 3 Hung Cheung Road, Tuen Mun, New Territories, Hong Kong
香港新界屯門洪祥路 3 號田氏中心 2 座 12 樓 C 及 D 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Length and related quantities - Angle		
- Angle measuring device	Calibration for angle in accordance with in-house procedure MTTP-CA-01-013 over the following range : 0° to 360°	2.7 minute of arc
- Spirit level (cylindrical vial) 30 mm to 500 mm	Calibration for angle of tilt in accordance with BS 3509: 1962: App. A.2C over the following range : 0 mm/m to 25 mm/m	0.004 mm/m to 1.5 mm/m
- Square length of blade up to 500 mm length of stock up to 315 mm	Calibration for deviation from squareness in accordance with in-house procedure MTTP-CA-01-012 over the following range : -20 μm to 20 μm	11 μm

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

MINSEN Testing (Hong Kong) Limited
明晟檢測(香港)有限公司
Units C & D, 12/F, Tins' Centre Block II, 3 Hung Cheung Road, Tuen Mun, New Territories, Hong Kong
香港新界屯門洪祥路 3 號田氏中心 2 座 12 樓 C 及 D 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Length and related quantities (cont'd) - Form		
- Straightedge of rectangular section 300 mm to 600 mm	Calibration for deviation from straightness in accordance with in-house procedure MTTP-CA-01-015 over the following range : -30 µm to 30 µm	 1.4 µm to 2 µm
- Surface plate diagonal length 300 mm to 1500 mm	Calibration for deviation from the flatness overall of the working surface in accordance with in-house procedure MTTP-CA-01-016 for the requirements as specified in BS 817: 1988 Cl. 9.2 over the following range : -80 µm to 80 µm Calibration for roughness of the working surface in accordance with in-house procedure MTTP-CA-01-016 over the following range : 0.1 µm to 5 µm On-site calibration for deviation from the flatness overall of the working surface in accordance with in-house procedure MTTP-CA-01-016 for the requirements as specified in BS 817: 1988 Cl. 9.2 over the following range : -80 µm to 80 µm On-site calibration for roughness of the working surface in accordance with in-house procedure MTTP-CA-01-016 over the following range : 0.1 µm to 5 µm	 4.2 µm to 6.6 µm 10 % of reading 4.2 µm to 6.6 µm 10 % of reading

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

MINSEN Testing (Hong Kong) Limited
明晟檢測(香港)有限公司
Units C & D, 12/F, Tins' Centre Block II, 3 Hung Cheung Road, Tuen Mun, New Territories, Hong Kong
香港新界屯門洪祥路 3 號田氏中心 2 座 12 樓 C 及 D 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related quantities (cont'd) - Form (cont'd) - Surface texture sample	Calibration for roughness (R_a) in accordance with in-house procedure MTTP-CA-11-014 over the following range : 0.1 μm to 5.0 μm	 8 % of reading

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

MINSEN Testing (Hong Kong) Limited
明晟檢測(香港)有限公司
Units C & D, 12/F, Tins' Centre Block II, 3 Hung Cheung Road, Tuen Mun, New Territories, Hong Kong
香港新界屯門洪祥路 3 號田氏中心 2 座 12 樓 C 及 D 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related quantities (cont'd) - Length		
- Calibration foil	Calibration for thickness in accordance with in-house procedure MTTP-CA-11-015 over the following range : 10 µm to 1500 µm	 4.1 µm
- Coating thickness gauge	Calibration for thickness using calibration foils in accordance with in-house method MTTP-CA-11-016 over the following range: 10 µm to 1500 µm	 4.5 µm
- Dial gauge	Calibration for length in accordance with BS 907: 1965 App. B3 over the following ranges : 0 mm to 25 mm 0 mm to 50 mm Calibration for length in accordance with AS 2103: 1978 App. A5 over the following ranges : 0 mm to 25 mm 0 mm to 50 mm Calibration for length in accordance with GEOSPEC 3: 2001 Cl. A.3.4 over the following ranges : 0 mm to 25 mm 0 mm to 50 mm	 5 µm 10 µm 5 µm 10 µm 5 µm 10 µm

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

MINSEN Testing (Hong Kong) Limited
明晟檢測(香港)有限公司
Units C & D, 12/F, Tins' Centre Block II, 3 Hung Cheung Road, Tuen Mun, New Territories, Hong Kong
香港新界屯門洪祥路 3 號田氏中心 2 座 12 樓 C 及 D 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Length and related quantities (cont'd)		
- Length (cont'd)		
- Engineer's steel measuring rule	Calibration for length in accordance with in-house procedure MTTP-CA-01-003 over the following range :	
	0 mm to 1 m	0.15 mm
- Extensometer		
- Grade C with gauge length from 100 mm to 600 mm - Grade D with gauge length from 50 mm to 600 mm - Grade E or F with gauge length from 25 mm to 600 mm	On-site calibration for displacement using calibration rig and verification of grade in accordance with BS 3846: 1970 (excluding determination of calibration factor) over the following range :	
	0.003 µm to 25 mm	1.2 µm to 24 µm
- Class 1 or Class 2 with gauge length from 25 mm to 600 mm	On-site calibration for displacement using calibration rig and verification of class in accordance with BS EN 10002-4: 1995; or BS EN ISO 9513: 2002; or BS EN ISO 9513: 2012 over the following range :	
	0.003 µm to 25 mm	1.2 µm to 24 µm

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

MINSEN Testing (Hong Kong) Limited
明晟檢測(香港)有限公司
Units C & D, 12/F, Tins' Centre Block II, 3 Hung Cheung Road, Tuen Mun, New Territories, Hong Kong
香港新界屯門洪祥路 3 號田氏中心 2 座 12 樓 C 及 D 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Length and related quantities (cont'd) - Length (cont'd)		
- External micrometer	Calibration for travel length in accordance with BS 870: 1950 App. A over the following ranges :	
	0 mm to 25 mm	2 µm
	above 25 mm to 50 mm	2 µm
	above 50 mm to 75 mm	2 µm
	above 75 mm to 100 mm	2 µm
- Feeler gauge	Calibration for thickness of blade in accordance with in-house procedure MTTP-CA-01-007 for the requirements as specified in BS 957: Part 2: 1969 Cl. 6 over the following range :	
	0.03 mm to 1.00 mm	4 µm
-Displacement transducer and digimatic gauge	Calibration for length in accordance with in-house procedure MTTP-CA-01-009 over the following ranges :	
	0 mm to 25 mm	3 µm
	above 25 mm to 50 mm	4.2 µm
	above 50 mm to 100 mm	7.4 µm
	Calibration for length in accordance with GEOSPEC 3: 2001 Cl. A.3.4 over the following ranges :	
	0 mm to 25 mm	3 µm
	above 25 mm to 50 mm	4.2 µm
	above 50 mm to 100 mm	7.4 µm
- Measuring microscope	On-site calibration for length in accordance with in-house procedure MTTP-CA-01-010 over the following ranges :	
	travel distance of x-y measuring stage: 120 mm x 120 mm	3.1 µm

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

MINSEN Testing (Hong Kong) Limited
明晟檢測(香港)有限公司
Units C & D, 12/F, Tins' Centre Block II, 3 Hung Cheung Road, Tuen Mun, New Territories, Hong Kong
香港新界屯門洪祥路 3 號田氏中心 2 座 12 樓 C 及 D 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related quantities (cont'd) - Length (cont'd)		
- Measuring tape	Calibration for length in accordance with in-house procedure MTTP-CA-01-004 over the following range :	
	0 mm to 200 m	0.2 mm to 8 mm
- Steel measuring tape	Calibration for length in accordance with in-house method MTTP-CA-01-004 over the following range :	
	0 mm to 200 m	0.2 mm to 8 mm
- Thickness gauge	Calibration for length in accordance with in-house method MTTP-CA-01-011 over the following range :	
	0 mm to 10 mm	4 μm
- Calliper	Calibration for length in accordance with BS 887: 1982 App. B over the following ranges :	
	0 mm to 300 mm above 300 mm to 600 mm	20 μm 30 μm
- Height gauge	Calibration for length in accordance with BS 1643: 1983 App. A2 over the following ranges :	
	0 mm to 100 mm above 100 mm to 300 mm above 300 mm to 450 mm	25 μm 35 μm 40 μm
- Water lever meter (Dipmeter)	Calibration for length in accordance with in-house method MTTP-CA-01-004 over the following range :	
	0 mm to 200 m	0.48 mm to 19.2 mm

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

MINSEN Testing (Hong Kong) Limited
明晟檢測(香港)有限公司
Units C & D, 12/F, Tins' Centre Block II, 3 Hung Cheung Road, Tuen Mun, New Territories, Hong Kong
香港新界屯門洪祥路 3 號田氏中心 2 座 12 樓 C 及 D 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related quantities - Force - Force testing machine - Compression testing machine	On-site calibration for compressive force using true force method and Grade 1.0 load cells and verification for grade in accordance with BS 1610: Part 1: 1992 over the following ranges :	
	0.2 kN to 1 kN	0.32 % of reading
	above 1 kN to 3000 kN	0.23 % of reading
	On-site calibration for compressive force using true force method or indicated force method and Class 1 load cells and verification for class in accordance with BS EN ISO 7500-1: 2004, or BS EN ISO 7500-1: 2015, or BS EN ISO 7500-1: 2018 over the following ranges :	
	0.2 kN to 1 kN	0.32 % of reading
	above 1 kN to 3000 kN	0.23 % of reading

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

MINSEN Testing (Hong Kong) Limited
明晟檢測(香港)有限公司
Units C & D, 12/F, Tins' Centre Block II, 3 Hung Cheung Road, Tuen Mun, New Territories, Hong Kong
香港新界屯門洪祥路 3 號田氏中心 2 座 12 樓 C 及 D 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related quantities (cont'd) - Force (cont'd) - Force testing machine (cont'd) - Compression testing machine (cont'd)	On-site calibration for compressive force using Class 1.0 load cells and verification for class in accordance with BS EN 12390-4: 2000 Annex B; or CS1: 2010 Vol. 2 App. D over the following ranges :	
	0.2 kN to 1 kN	0.32 % of reading
	above 1 kN to 3000 kN	0.23 % of reading
	On-site verification by performing strain gauged column and proving test (stability test) in accordance with BS 1881: Part 115: 1986 (AMD 6536) App. A; or BS EN 12390-4: 2000 Annex A; or CS1: 1990 Vol.2 App. D; or CS1: 2010 Vol.2 App. D over the following range :	
	200 kN to 2000 kN	0.035 strain ratio

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

MINSEN Testing (Hong Kong) Limited
明晟檢測(香港)有限公司
Units C & D, 12/F, Tins' Centre Block II, 3 Hung Cheung Road, Tuen Mun, New Territories, Hong Kong
香港新界屯門洪祥路 3 號田氏中心 2 座 12 樓 C 及 D 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related quantities (cont'd) - Force (cont'd) - Force testing machine (cont'd) - Uniaxial testing machine in compression mode	On-site calibration for compressive force using true force method and Grade 1.0 load cells and verification for grade in accordance with BS 1610: Part 1: 1985, or BS 1610: Part 1: 1992 over the following ranges :	
	0.2 kN to 1 kN	0.32 % of reading
	above 1 kN to 3000 kN	0.23 % of reading

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

MINSEN Testing (Hong Kong) Limited
明晟檢測(香港)有限公司
Units C & D, 12/F, Tins' Centre Block II, 3 Hung Cheung Road, Tuen Mun, New Territories, Hong Kong
香港新界屯門洪祥路 3 號田氏中心 2 座 12 樓 C 及 D 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related quantities (cont'd) - Force (cont'd) - Force testing machine (cont'd) - Uniaxial testing machine in compression mode (cont'd)	On-site calibration for compressive force using true force method or indicated force method and Class 1 load cells and verification for class in accordance with BS EN ISO 7500-1: 2004, or BS EN ISO 7500-1: 2015, or BS EN ISO 7500-1: 2018 over the following ranges :	
	0.2 kN to 1 kN	0.32 % of reading
	above 1 kN to 3000 kN	0.23 % of reading

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

MINSEN Testing (Hong Kong) Limited
明晟檢測(香港)有限公司
Units C & D, 12/F, Tins' Centre Block II, 3 Hung Cheung Road, Tuen Mun, New Territories, Hong Kong
香港新界屯門洪祥路 3 號田氏中心 2 座 12 樓 C 及 D 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related quantities (cont'd) - Force (cont'd) - Force testing machine (cont'd) - Uniaxial testing machine in tension mode	On-site calibration for tensile force using true force method and Grade 1.0 load cells and verification for grade in accordance with BS 1610: Part 1: 1985 over the following range :	
	0.2 kN to 2000 kN	0.32 % of reading
	On-site calibration for tensile force using true force method or indicated force method and Class 1 load cells and verification for class in accordance with BS EN ISO 7500-1: 2004, or BS EN ISO 7500-1: 2015, or BS EN ISO 7500-1: 2018 over the following range :	
	0.2 kN to 2000 kN	0.32 % of reading

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

MINSEN Testing (Hong Kong) Limited
明晟檢測(香港)有限公司
Units C & D, 12/F, Tins' Centre Block II, 3 Hung Cheung Road, Tuen Mun, New Territories, Hong Kong
香港新界屯門洪祥路 3 號田氏中心 2 座 12 樓 C 及 D 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities (cont'd) - Force (cont'd) - Impact testing machine	On-site indirect verification in accordance with BS EN 10045-2: 1993 Cl. 6, or BS EN ISO 148-2: 2016 Cl.7 over the following three absorbed energy levels : 1 J to 40 J above 40 to 150 J above 150 to 250 J	 1.6 J 4.2 J 10 J

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

MINSEN Testing (Hong Kong) Limited
明晟檢測(香港)有限公司
Units C & D, 12/F, Tins' Centre Block II, 3 Hung Cheung Road, Tuen Mun, New Territories, Hong Kong
香港新界屯門洪祥路 3 號田氏中心 2 座 12 樓 C 及 D 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities (cont'd) - Force (cont'd)		
- Load cell or other force transducer (in compression mode)	Calibration for compressive forces in accordance with in-house procedure MTTP-CA-03(2)-008 over the following ranges :	
	0.1 kN to 100 kN	0.15 % to 0.33 % of reading
	above 100 kN to 3000 kN	0.5 % of reading
	On-site calibration for compressive forces in accordance with in-house procedure MTTP-CA-03(2)-008 over the following ranges :	
	0.1 kN to 100 kN	0.15 % to 0.33 % of reading
	above 100 kN to 3000 kN	0.5 % of reading
	Calibration for compressive force in accordance with GEOSPEC 3: 2001 Cl. A.3.1 over the following range :	
	0.1 kN to 100 kN	0.15 % to 0.33 % of reading
	On-site calibration for compressive force in accordance with GEOSPEC 3: 2001 Cl. A.3.1 over the following range :	
	0.1 kN to 100 kN	0.15 % to 0.33 % of reading
- Load cell or other force transducer (in tension mode)	Calibration for tensile forces in accordance with in-house procedure MTTP-CA-03(2)-008 over the following range :	
	0.1 kN to 100 kN	0.15 % to 0.33 % of reading
	On-site calibration for tensile forces in accordance with in-house procedure MTTP-CA-03(2)-008 over the following range :	
	0.1 kN to 100 kN	0.15 % to 0.33 % of reading

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

MINSEN Testing (Hong Kong) Limited
明晟檢測(香港)有限公司
Units C & D, 12/F, Tins' Centre Block II, 3 Hung Cheung Road, Tuen Mun, New Territories, Hong Kong
香港新界屯門洪祥路 3 號田氏中心 2 座 12 樓 C 及 D 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related quantities (cont'd) - Force (cont'd)		
- Proving ring	Calibration for compressive force in accordance with in-house procedure MTTP-CA-03(2)-008A over the following range :	
	0.1 kN to 100 kN	0.25 % to 0.4 % of reading
	Calibration for compressive force in accordance with GEOSPEC 3: 2001 Cl. A.3.1 over the following range :	
	0.1 kN to 100 kN	0.25 % to 0.4 % of reading
- Push-pull gauge (in compression and tension mode)	Calibration for compressive and tensile forces using standard weights in accordance with in-house procedure MTTP-CA-03(2)-009 over the following ranges :	
	0.01 kgf to 0.5 kgf above 0.5 kgf to 5 kgf	0.001 kgf 0.2 % of reading

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

MINSEN Testing (Hong Kong) Limited
明晟檢測(香港)有限公司
Units C & D, 12/F, Tins' Centre Block II, 3 Hung Cheung Road, Tuen Mun, New Territories, Hong Kong
香港新界屯門洪祥路 3 號田氏中心 2 座 12 樓 C 及 D 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities (cont'd) - Hardness - Hardness sample	Calibration for hardness in accordance with BS EN ISO 6508-1: 2005 cl. 7 over the following ranges : Rockwell Scale 20 HRB to 100 HRB 20 HRC to 70 HRC Calibration for hardness in accordance with BS EN ISO 6507-1: 2005 cl. 7 over the range : Vickers Scale 210 HV30 to 730 HV30 Calibration for hardness in accordance with BS EN ISO 6506-1: 2005 cl. 7 over the range : Brinell Scale 200 HBW to 400 HBW	 2.5 HRB 1.9 HRC 3.7 % of reading 3.1 % of reading

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

MINSEN Testing (Hong Kong) Limited
明晟檢測(香港)有限公司
Units C & D, 12/F, Tins' Centre Block II, 3 Hung Cheung Road, Tuen Mun, New Territories, Hong Kong
香港新界屯門洪祥路 3 號田氏中心 2 座 12 樓 C 及 D 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities (cont'd) - Hardness (cont'd) - Hardness testing machine	On-site indirect verification of testing machine for Rockwell hardness scale in accordance with BS EN ISO 6508-2: 2005 Cl. 5 over the following ranges :	
	20 HRB to 100 HRB	1.8 HRB
	20 HRC to 70 HRC	1.4 HRC
	On-site indirect verification of testing machine for Vickers hardness scale in accordance with BS EN ISO 6507-2: 2005 Cl. 5 over the following range :	
	210 HV30 to 730 HV30	2.8 % of reading
	On-site indirect verification of testing machine for Brinell hardness scale in accordance with BS EN ISO 6506-2: 2005 Cl. 5 over the following range :	
	200 HBW to 400 HBW	2.7 % of reading

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

MINSEN Testing (Hong Kong) Limited
明晟檢測(香港)有限公司
Units C & D, 12/F, Tins' Centre Block II, 3 Hung Cheung Road, Tuen Mun, New Territories, Hong Kong
香港新界屯門洪祥路 3 號田氏中心 2 座 12 樓 C 及 D 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related quantities (cont'd) - Pressure - Pressure gauge	Calibration for pressure using oil as pressure medium in accordance with in-house procedure MTTP-CA-03(3)-002 over the following range :	
	20 kPa to 40 kPa	3 % of reading
	above 40 kPa to 100 kPa	1.5 % of reading
	above 100 kPa to 200 kPa	0.8 % of reading
	above 200 kPa to 70000 kPa	0.16 % of reading
	On-site calibration for pressure using oil as pressure medium in accordance with in-house procedure MTTP-CA-03(3)-002 over the following range :	
	20 kPa to 40 kPa	3 % of reading
	above 40 kPa to 100 kPa	1.5 % of reading
	above 100 kPa to 200 kPa	0.8 % of reading
	above 200 kPa to 70000 kPa	0.16 % of reading
	Calibration for pressure using water as pressure medium in accordance with in-house procedure MTTP-CA-03(3)-002 over the following range :	
	20 kPa to 40 kPa	3 % of reading
	above 40 kPa to 100 kPa	1.5 % of reading
	above 100 kPa to 200 kPa	0.8 % of reading
	above 200 kPa to 1000 kPa	0.16 % of reading
	On-site calibration for pressure using water as pressure medium in accordance with in-house procedure MTTP-CA-03(3)-002 over the following range :	
	20 kPa to 40 kPa	3 % of reading
	above 40 kPa to 100 kPa	1.5 % of reading
	above 100 kPa to 200 kPa	0.8 % of reading
	above 200 kPa to 1000 kPa	0.16 % of reading

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

MINSEN Testing (Hong Kong) Limited
明晟檢測(香港)有限公司
Units C & D, 12/F, Tins' Centre Block II, 3 Hung Cheung Road, Tuen Mun, New Territories, Hong Kong
香港新界屯門洪祥路 3 號田氏中心 2 座 12 樓 C 及 D 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities (cont'd) - Pressure (cont'd) - Pressure gauge (cont'd)	Calibration for pressure using water as pressure medium in accordance with GEOSPEC 3: 2001 Cl. A.3.2, over the following range : 20 kPa to 40 kPa above 40 kPa to 100 kPa above 100 kPa to 200 kPa above 200 kPa to 1000 kPa On-site calibration for pressure using water as pressure medium in accordance with GEOSPEC 3: 2001 Cl. A.3.2, over the following range : 20 kPa to 40 kPa above 40 kPa to 100 kPa above 100 kPa to 200 kPa above 200 kPa to 1000 kPa Calibration for gauge pressure using gas as pressure medium in accordance with in-house procedure MTTP-CA-03(3)-002 over the following range : 5 kPa to 20 kPa above 20 kPa to 40 kPa above 40 kPa to 6000 kPa On-site calibration for gauge pressure using gas as pressure medium in accordance with in-house procedure MTTP-CA-03(3)-002 over the following range : 5 kPa to 20 kPa above 20 kPa to 40 kPa above 40 kPa to 6000 kPa	 3 % of reading 1.5 % of reading 0.8 % of reading 0.16 % of reading 3 % of reading 1.5 % of reading 0.8 % of reading 0.16 % of reading 3 % of reading 1 % of reading 0.16 % of reading 3 % of reading 1 % of reading 0.16 % of reading

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

MINSEN Testing (Hong Kong) Limited
明晟檢測(香港)有限公司
Units C & D, 12/F, Tins' Centre Block II, 3 Hung Cheung Road, Tuen Mun, New Territories, Hong Kong
香港新界屯門洪祥路 3 號田氏中心 2 座 12 樓 C 及 D 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related quantities (cont'd)		
- Pressure (cont'd)		
- Vacuum gauge	Calibration for pressure using gas as pressure medium in accordance with in-house procedure MTTP-CA-03(3)-002 over the following range :	
	-5 kPa to -20 kPa	3 % of reading
	above -20 kPa to -40 kPa	1 % of reading
	above -40 kPa to -100 kPa	0.16 % of reading
- Torque		
- Torque wrench	Calibration for torque in accordance with in-house procedure MTTP-CA-11-013 over the following ranges :	
	10 N·m to 150 N·m	1.5 % of reading
	above 150 N·m to 1000 N·m	1 % of reading

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

MINSEN Testing (Hong Kong) Limited
明晟檢測(香港)有限公司
Units C & D, 12/F, Tins' Centre Block II, 3 Hung Cheung Road, Tuen Mun, New Territories, Hong Kong
香港新界屯門洪祥路 3 號田氏中心 2 座 12 樓 C 及 D 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related quantities (cont'd) - Mass - Electronic balance	Calibration for mass using following OIML Class standard weights (1) E1 weights from 1 mg to 500 g (2) F1 weights from 1 g to 20 kg (3) M1 weights from 1 kg to 50 kg in accordance with in-house procedure MTTP-CA-03(1)-001 over the following ranges :	
	1 mg to 220 g	0.02 mg to 0.24 mg
	above 220 g to 1000 g	0.24 mg to 2 mg
	above 1 kg to 10 kg	2 mg to 24 mg
	above 10 kg to 25 kg	24 mg to 50 mg
	above 25 kg to 60 kg	0.05 g to 0.28 g
	above 60 kg to 150 kg	0.28 g to 11 g
	On-site calibration for mass using following OIML Class standard weights (1) E1 weights from 1 mg to 500 g (2) F1 weights from 1 g to 20 kg (3) M1 weights from 1 kg to 50 kg in accordance with in-house procedure MTTP-CA-03(1)-001 over the following ranges :	
	1 mg to 220 g	0.02 mg to 0.24 mg
	above 220 g to 1000 g	0.24 mg to 2 mg
	above 1 kg to 10 kg	2 mg to 24 mg
	above 10 kg to 25 kg	24 mg to 50 mg
	above 25 kg to 60 kg	0.05 g to 0.28 g
	above 60 kg to 150 kg	0.28 g to 11 g

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

MINSEN Testing (Hong Kong) Limited
明晟檢測(香港)有限公司
Units C & D, 12/F, Tins' Centre Block II, 3 Hung Cheung Road, Tuen Mun, New Territories, Hong Kong
香港新界屯門洪祥路 3 號田氏中心 2 座 12 樓 C 及 D 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related quantities (cont'd) - Mass (cont'd) - Weight	Calibration for mass by direct measurement in accordance with in-house procedure MTTP-CA-03(1)-002 over the following ranges :	
	1 mg to 50 g	0.11 mg
	above 50 g to 200 g	1.1 mg
	above 200 g to 1 kg	11 mg
	above 1 kg to 20 kg	0.12 g
	above 20 kg to 50 kg	0.82 g
	Calibration for mass by comparison with reference mass in accordance with in-house procedure MTTP-CA-03(1)-002 over the following ranges :	
	1 mg to 20 g	0.06 mg
	above 20 g to 50 g	0.1 mg
	above 50 g to 200 g	0.4 mg
	above 200 g to 1 kg	5 mg
	above 1 kg to 10 kg	11 mg
	above 10 kg to 20 kg	20 mg
	above 20 kg to 50 kg	0.3 g

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

MINSEN Testing (Hong Kong) Limited
明晟檢測(香港)有限公司
Units C & D, 12/F, Tins' Centre Block II, 3 Hung Cheung Road, Tuen Mun, New Territories, Hong Kong
香港新界屯門洪祥路 3 號田氏中心 2 座 12 樓 C 及 D 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Thermometry - Humidity - Hygrometer	Calibration for relative humidity within the temperature range of 5 ℃ to 50 ℃ in accordance with in-house procedure MTTP-CA-02-004 over the following range : 10 %rh to 90 %rh	 2 %rh
- Temperature and humidity chamber	On-site calibration for relative humidity within the temperature range of 20℃ to 30℃ in accordance with in-house procedure MTTP-CA-11-017 over the following range : 10 %rh to 90 %rh On-site calibration for relative humidity within the temperature range of 30℃ to 85℃ in accordance with in-house procedure MTTP-CA-11-017 over the following range : 10 %rh to 85 %rh	 3.5 %rh 4.5 %rh

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

MINSEN Testing (Hong Kong) Limited
明晟檢測(香港)有限公司
Units C & D, 12/F, Tins' Centre Block II, 3 Hung Cheung Road, Tuen Mun, New Territories, Hong Kong
香港新界屯門洪祥路 3 號田氏中心 2 座 12 樓 C 及 D 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Thermometry		
- Temperature		
- Temperature and humidity chamber	On-site calibration for temperature in accordance with in-house procedure MTTP-CA-11-017 over the following range :	
	-25 ℃ to 0 ℃	0.6 K
	above 0 ℃ to 30 ℃	0.3 K
	above 30 ℃ to 70 ℃	0.5 K
	above 70 ℃ to 150 ℃	1.3 K
- Dial thermometer	Calibration for temperature in accordance with in-house procedure MTTP-CA-02-002 over the following ranges :	
	0 ℃ to 100 ℃	1.7 K
	above 100 ℃ to 500 ℃	4.0 K
- Electronic thermometer	Calibration for temperature in accordance with in-house procedure MTTP-CA-02-001 over the following ranges :	
	-40 ℃ to 150 ℃	0.1 K
	above 150 ℃ to 300 ℃	0.3 K
	above 300 ℃ to 500 ℃	1.9 K
	above 500 ℃ to 1200 ℃	4.0 K

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

MINSEN Testing (Hong Kong) Limited
明晟檢測(香港)有限公司
Units C & D, 12/F, Tins' Centre Block II, 3 Hung Cheung Road, Tuen Mun, New Territories, Hong Kong
香港新界屯門洪祥路 3 號田氏中心 2 座 12 樓 C 及 D 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Thermometry		
- Temperature		
- Infrared thermometer (working wavelength from 8 μm to 14 μm)	Calibration for temperature in accordance with in-house procedure MTTP-CA-02-005 at emissivity of 1.0 over the following ranges:	
	35 ℃ to 100 ℃	2.3 K
	above 100 ℃ to 250 ℃	3.0 K
	above 250 ℃ to 480 ℃	4.0 K
- Liquid-in-glass thermometer	Calibration for temperature in accordance with in-house procedure MTTP-CA-02-003 over the following ranges :	
	-30 ℃ to 0 ℃	0.3 K
	above 0 ℃ to 100 ℃	0.1 K
	above 100 ℃ to 150 ℃	0.12 K

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

MINSEN Testing (Hong Kong) Limited
明晟檢測(香港)有限公司
Units C & D, 12/F, Tins' Centre Block II, 3 Hung Cheung Road, Tuen Mun, New Territories, Hong Kong
香港新界屯門洪祥路 3 號田氏中心 2 座 12 樓 C 及 D 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Adhesive	Pull-off test of tile adhesive	In-house method MTTP-FT-02-001
	Pull-off test of tiles	In-house method MTTP-FT-02-002
	Pull-off test of render	In-house method MTTP-FT-02-003
	Pull-off test of concrete	Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance and Building Materials Specification Part D Cl. 4.1.3
	Pull-off test of repair mortar	Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance and Building Materials Specification Part D Cl. 2.1.15 Method 1
Concrete	Sampling fresh concrete on site	CS1: 2010 + Amd. No. 1/2017 Section 1
	Slump of fresh concrete	BS EN 12350-2: 2009 CS1: 2010 + Amd. No. 1/2017 Section 2 Part 1
	Flow table test	CS1: 2010 Section 2 Part IV
	Making test cubes from fresh concrete	BS EN 12390-2: 2009 CS1: 2010 Section 7
	Mixing and sampling of fresh concrete	CS1: 2010 Section 11
	Obtaining core samples	CS1: 2010 Section 15
	Temperature measurement of fresh concrete	BS 5328: Part 4: 1990 Cl. 3.4(b)
	Water absorption	BS 1881: Part 122: 1983 + Amd. 6108

MINSEN Testing (Hong Kong) Limited
明晟檢測(香港)有限公司
Units C & D, 12/F, Tins' Centre Block II, 3 Hung Cheung Road, Tuen Mun, New Territories, Hong Kong
香港新界屯門洪祥路 3 號田氏中心 2 座 12 樓 C 及 D 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Concrete (diagnostic)	Carbonation test	BS EN 14630: 2006 Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance & Building Materials Specification Part D Cl. 4.3.1 (Method 1 & Method 2)
	Covermeter survey	BS 1881: Part 204: 1988 Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance & Building Materials Specification Part D Cl. 4.3.2 (Method 1 & Method 2)
	Surface hardness measurement	BS 1881: Part 202: 1986 BS EN 12504-2: 2001 BS EN 12504-2: 2012 Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance & Building Materials Specification Part D Cl. 4.1.1
Grout	Bleeding and free expansion	General Specification for Civil Engineering Works (2006) Vol. 2 Cl. 17.60 Hong Kong Housing Authority Specification Library (2022) PIL1.T320.9
	Expansion and bleeding of freshly mixed grouts for preplaced aggregate concrete	ASTM C940-10a ASTM C940-16
	Flow of grout for preplaced aggregate concrete (flow cone method)	ASTM C939-10 ASTM C939-16a ASTM C939-16a with modification (using 19 mm diameter discharge tube flow cone)

MINSEN Testing (Hong Kong) Limited
明晟檢測(香港)有限公司
Units C & D, 12/F, Tins' Centre Block II, 3 Hung Cheung Road, Tuen Mun, New Territories, Hong Kong
香港新界屯門洪祥路 3 號田氏中心 2 座 12 樓 C 及 D 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Metallic materials (chemical analysis)	Elemental composition : -	
Iron (chemical analysis)	Total carbon content	BS EN ISO 15350: 2010 (Method A) ISO 15350: 2000 (Method A)
	Total sulphur content	BS EN ISO 15350: 2010 (Method A) ISO 15350: 2000 (Method A)
	Nitrogen content	BS EN ISO 15351: 2010 ISO 15351: 1999
Steel (chemical analysis)	Total carbon content	BS EN ISO 15350: 2010 (Method A) ISO 15350: 2000 (Method A)
	Total sulphur content	BS EN ISO 15350: 2010 (Method A) ISO 15350: 2000 (Method A)
	Nitrogen content	BS EN ISO 15351: 2010 ISO 15351: 1999
	Copper, Chromium, Manganese, Nickel Molybdenum, Phosphorus, Vanadium	In-house method MTTP-CH-10-004 (ICP-OES)
Steel reinforcing bar (Product analysis grade 250, 500B, & 500C) (chemical analysis)	Carbon, Sulphur, Phosphorus, Nitrogen, Nitrogen binding element (Vanadium), Copper and Carbon Equivalent Value	CS2: 2012 Cl. 1.5.1 in conjunction with SCCT Technical Note No. 3 *Test procedure for compliance testing of total carbon and sulphur*: BS EN ISO 15350: 2010 (Method A) ISO 15350: 2000 (Method A) *Test procedure for compliance testing of nitrogen*: BS EN ISO 15351: 2010 ISO 15351: 1999 *Test procedure for compliance testing of copper, phosphorous & nitrogen binding element (vanadium)*: In-house Method MTTP-CH-10-004 (ICP-OES) *Test procedure for compliance testing of carbon equivalent value*: CS2: 2012 Cl. 1.5.1

MINSEN Testing (Hong Kong) Limited
明晟檢測(香港)有限公司
Units C & D, 12/F, Tins' Centre Block II, 3 Hung Cheung Road, Tuen Mun, New Territories, Hong Kong
香港新界屯門洪祥路 3 號田氏中心 2 座 12 樓 C 及 D 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Steel reinforcing bar (Product analysis grade 250, 500B, & 500C) (chemical analysis) (Cont'd)	Carbon equivalent value	BS 4449:2005 + A2:2009 Cl. 7.1 In-house method MTTP-CH-10-005B (by calculation)
Carbon steel and low alloy steel (chemical analysis)	Carbon, Sulphur, Nitrogen, Chromium, Copper, Manganese, Molybdenum, Phosphorus, Nickel, Vanadium, Silicon, Niobium, Titanium, Aluminum	In-house method MTTP-CH-10-006 (Spark-OES)
Aggregates (chemical analysis)	Acid-soluble choride content	CS3: 2013 Cl. 21.4
	Water-soluble chloride ion content	CS3: 2013 Cl. 21.3 BS 812: Part 117: 1988 Excluding Cl.4
	Acid-soluble sulphate content	CS3: 2013 Cl. 21.5
	Total sulphate content (acid extraction)	BS 812: Part 118: 1988 Cl.6 Excluding Cl.4
	Total sulphur content	CS3: 2013 Cl. 21.6
	Presence of humus	CS3: 2013 Cl. 21.7
	Acid-soluble material in fine aggregate	BS 812: Part 119: 1985 Excluding Cl. 4
Concrete (chemical analysis)	Treatment of samples	CS 1: 2010 Section 21.4
	Chloride content	CS 1: 2010 Section 21.10.2
	Chloride content (expressed as percentage by mass of concrete)	CS 1: 2010 Section 21.10.2 in conjunction with in-house method MTTP-CH-05-002 (by calculation)
	Determination of chloride content in hardened concrete	BS EN 14629: 2007 Method A
	Sulphate content	CS 1: 2010 Section 21.10.3
	Sulphate content (expressed as percentage by mass of concrete)	CS 1: 2010 Section 21.10.3 in conjunction with in-house method MTTP-CH-05-003 (by calculation)
	Cement and Aggregate content (By calcium oxide determination)	CS 1: 2010 Section 21.6.4, 21.6.6 & 21.6.7

MINSEN Testing (Hong Kong) Limited
明晟檢測(香港)有限公司
Units C & D, 12/F, Tins' Centre Block II, 3 Hung Cheung Road, Tuen Mun, New Territories, Hong Kong
香港新界屯門洪祥路 3 號田氏中心 2 座 12 樓 C 及 D 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Cement (chemical analysis)	Chloride ion content	BS EN 196: Part 21: 1992 Cl. 4
	Residue insoluble in hydrochloric acid and sodium carbonate	BS EN 196: Part 2: 1995 Cl. 9
	Loss-on-ignition (L.O.I.)	BS EN 196: Part 2: 1995 Cl. 7
	Manganese content (Mn)	BS EN 196: Part 2: 1995 Cl. 12
	Manganese content (as MnO)	BS EN 196: Part 2: 1995 Cl. 12
	Manganese content (as Mn_2O_3)	BS EN 196: Part 2: 1995 Cl. 12
	Impure silica content	BS EN 196: Part 2: 1995 Cl. 13.2 & Cl. 13.3
	Pure silica content	BS EN 196: Part 2: 1995 Cl. 13.6
	Soluble silica content	BS EN 196: Part 2: 1995 Cl. 13.7 and Cl. 13.8
	Total silica content (SiO_2)	BS EN 196: Part 2: 1995 Cl. 13.9
	Sulfate content (as SO_3)	BS EN 196: Part 2: 1995 Cl. 8
	Alkali content	BS EN 196: Part 21: 1992 Cl. 8 (alternative method)

MINSEN Testing (Hong Kong) Limited
明晟檢測(香港)有限公司
Units C & D, 12/F, Tins' Centre Block II, 3 Hung Cheung Road, Tuen Mun, New Territories, Hong Kong
香港新界屯門洪祥路 3 號田氏中心 2 座 12 樓 C 及 D 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Manhole steps	Bending test of manhole steps	BS 1247: Part 1: 1990 App. A
	Pull-out test of manhole steps	BS 1247: Part 1: 1990 App. B
	Twist test of manhole steps	BS 1247: Part 1: 1990 Cl. 7.1
	Pull-out test of steps for underground man entry chambers	BS EN 13101: 2002 Annex D
	Twist test of steps for underground man entry chambers	BS EN 13101: 2002 Annex A
	Vertical loading test of steps for underground man entry chambers	BS EN 13101: 2002 Annex B
Soil (Phase I)	Moisture content by oven-drying at 45°C ± 5°C	GEOSPEC 3: 2001 Test 5.1
	Moisture content by oven-drying at 105°C ± 5°C	GEOSPEC 3: 2001 Test 5.2
	Comparative test for the determination of moisture content by oven-drying	GEOSPEC 3: 2001 Test 5.3
	Liquid limit, plastic limit and plasticity index	GEOSPEC 3: 2001 Test 6.1
	Liquidity index	GEOSPEC 3: 2001 Test 6.2
	Particle density by gas jar method	GEOSPEC 3: 2001 Test 7.1
	Particle density by small pyknometer method	GEOSPEC 3: 2001 Test 7.2
	Particle size distribution by wet sieving (with dispersant)	GEOSPEC 3: 2001 Test 8.1
	Particle size distribution by wet sieving (without dispersant)	GEOSPEC 3: 2001 Test 8.2
	Particle size distribution by hydrometer (with dispersant)	GEOSPEC 3: 2001 Test 8.5
	Particle size distribution by hydrometer (without dispersant)	GEOSPEC 3: 2001 Test 8.6

MINSEN Testing (Hong Kong) Limited
明晟檢測(香港)有限公司
Units C & D, 12/F, Tins' Centre Block II, 3 Hung Cheung Road, Tuen Mun, New Territories, Hong Kong
香港新界屯門洪祥路 3 號田氏中心 2 座 12 樓 C 及 D 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Soil (Phase I) (cont'd)	Construction of a continuous particle size distribution curve from the results of wet sieving and sedimentation tests	GEOSPEC 3: 2001 Test 8.7
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a 1000cc mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.1
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a 1000cc mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.2
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a CBR mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.3
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a CBR mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.4
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a 1000cc mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.5
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a 1000cc mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.6
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a CBR mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.7

MINSEN Testing (Hong Kong) Limited
明晟檢測(香港)有限公司
Units C & D, 12/F, Tins' Centre Block II, 3 Hung Cheung Road, Tuen Mun, New Territories, Hong Kong
香港新界屯門洪祥路 3 號田氏中心 2 座 12 樓 C 及 D 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Soil (Phase I) (cont'd)	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a CBR mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.8
	In-situ bulk density and in-situ dry density of soils by the sand replacement method suitable for fine- and medium-grained soils (with small pouring cylinder)	GEOSPEC 3: 2001 Test 11.1
	In-situ bulk density and in-situ dry density of soils by the sand replacement method suitable for fine-, medium-, and coarse-grained soils (with large pouring cylinder)	GEOSPEC 3: 2001 Test 11.2
	Relative compaction of fill material	GEOSPEC 3: 2001 Test 11.4 Buildings Department PNAP APP-15 (2005) Cl. 4 App. A
Soil (other)	Pull-out test of soil nails	General Specification for Civil Engineering Works (2006) Vol. 1 Cl. 7.138 General Specification for Civil Engineering Works (2020) Vol. 1 Cl. 7.144 GEOGUIDE 7 (2017) Cl. 6.3.2 Hong Kong Housing Authority Specification Library (2022) SLO.T315.9 & SLO.T320.9
	Soil nail performance	Architectural Services Department General Specification for Building (2022) Cl. 26.47

MINSEN Testing (Hong Kong) Limited
明晟檢測(香港)有限公司
Units C & D, 12/F, Tins' Centre Block II, 3 Hung Cheung Road, Tuen Mun, New Territories, Hong Kong
香港新界屯門洪祥路 3 號田氏中心 2 座 12 樓 C 及 D 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Soil (chemical analysis)	Organic matter content	GEOSPEC 3: 2001 Test 9.1
	Mass loss on ignition	GEOSPEC 3: 2001 Test 9.2
	Water-soluble chloride content	GEOSPEC 3: 2001 Test 9.4
	pH value	GEOSPEC 3: 2001 Test 9.5
	Water-soluble sulphate content	GEOSPEC 3: 2001 Test 9.3
	Acid-soluble sulphate content	GEOSPEC 3: 2001 Test 9.3

MINSEN Testing (Hong Kong) Limited
明晟檢測(香港)有限公司
Units C & D, 12/F, Tins' Centre Block II, 3 Hung Cheung Road, Tuen Mun, New Territories, Hong Kong
香港新界屯門洪祥路 3 號田氏中心 2 座 12 樓 C 及 D 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Structural fixings	Tensile test of anchors and dowel bars by incremental loading in the force range 1 kN – 800 kN	BS 5080: Part 1: 1993 Cl. 6, 7.1.1 & 7.1.3
	Tensile proof load test of anchors and dowel bars by incremental loading in the force range 1 kN – 800 kN	BS 5080: Part 1: 1993 Cl. 6, 7.1.1 & 7.1.3 with modifications
	Tensile proof load test of drilled-in anchors used for cantilevered structure/hanger/curtain wall remedial works by incremental loading in the force range 1 kN – 800 kN	Buildings Department PNAP APP-169 (Oct 2023) App. A
	Tensile proof load test of drilled-in anchors used for works other than cantilevered structure/ hanger/curtain wall remedial works in the force range 1 kN – 800 kN	Buildings Department PNAP APP-169 (Oct 2023) App. B
	Tensile proof load test for cementitious or polymer based grouted bolts or dowels or reinforcing bars works in the force range 1 kN – 800 kN	Buildings Department PNAP APP-169 (Oct 2023) App. C
	Shear test of anchors and dowel bars by incremental loading in the force range 1 kN – 800 kN	BS 5080: Part 2: 1986 + Amd. 7602 Cl. 4, 7.1, 7.2.1 & 7.2.3
	Shear proof load test of drilled-in anchors used for cantilevered structure/hanger/curtain wall remedial works by incremental loading in the force range 1 kN – 800 kN	Buildings Department PNAP APP-169 (Oct 2023) App. A
	Shear proof load test of drilled-in anchors used for works other than cantilevered structure/ hanger/curtain wall remedial works in the force range 1 kN – 800 kN	Buildings Department PNAP APP-169 (Oct 2023) App. B
	Shear proof load test cementitious or polymer based grouted bolts or dowel or reinforcing bars works in the force range 1 kN – 800 kN	Buildings Department PNAP APP-169 (Oct 2023) App. C

MINSEN Testing (Hong Kong) Limited
明晟檢測(香港)有限公司
Units C & D, 12/F, Tins' Centre Block II, 3 Hung Cheung Road, Tuen Mun, New Territories, Hong Kong
香港新界屯門洪祥路 3 號田氏中心 2 座 12 樓 C 及 D 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Welds (non-destructive)	Liquid penetrant test (Colour contrast method)	BS 6443: 1984 + Amd. 4844 BS EN 571-1: 1997 BS EN ISO 3452-1: 2021 in conjunction with the following specification(s): BS 5135: 1984 Table 18 & 19 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2005) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b
	Magnetic particle test (Magnetic flow method, colour contrast method using permanent magnets & A.C. yokes)	BS 6072 : 1981 (1986) BS EN 1290 : 1998 + A2: 2003 BS EN ISO 9934-1: 2016 BS EN ISO 17638: 2009 BS EN ISO 17638: 2016 in conjunction with the following specification(s): BS 5135: 1984 Table 18 & 19 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2005) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b
	Ultrasonic test (Butt welds in plates and pipes, 'T' joint welds, nozzle welds and node welds)	BS 3923: Part 1: 1986 (Level 1, 2a, 2b & 3) BS EN 1714: 1998 (Level A, B, & C) BS EN ISO 17640: 2010 (Level A, B, & C) BS EN ISO 17640: 2018 (Level A, B, & C) in conjunction with the following specification(s): BS 5135: 1984 Table 18 & 19 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2005) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b

MINSEN Testing (Hong Kong) Limited
明晟檢測(香港)有限公司
Units C & D, 12/F, Tins' Centre Block II, 3 Hung Cheung Road, Tuen Mun, New Territories, Hong Kong
香港新界屯門洪祥路 3 號田氏中心 2 座 12 樓 C 及 D 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Welds (non-destructive) (cont'd)	Visual examination	BS 5289: 1976 BS EN 970: 1997 BS EN ISO 17637: 2011 BS EN ISO 17637: 2016 in conjunction with the following specification(s): BS 5135: 1984 Table 18 & 19 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2005) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b
	Visual examination and bend test on stud connectors	<Visual examination as follows:> BS 5289: 1976 BS EN 970: 1997 BS EN ISO 17637: 2011 BS EN ISO 17637: 2016 <together with the following bend test method:> BS 5400: Part 6: 1999 + Corr. 1: 2002 Cl. 5.5.4(b) BS 5950: Part 3: 1990 Cl. A.3.2 BS EN ISO 14555: 2017 Cl. 11.2, 11.3 (excluding Torque wrench method), 12.2 & 12.3 Buildings Department Code of Practice for the Structural Use of Steel (2005) Cl. 14.3.7.3 Buildings Department Code of Practice for the Structural Use of Steel (2011) Cl. 14.3.7.3

MINSEN Testing (Hong Kong) Limited
明晟檢測(香港)有限公司
Unit F2, G/F, Tuen Mun Industrial Centre, 2 San Ping Circuit, Tuen Mun, New Territories, Hong Kong
香港新界屯門新平街 2 號屯門工業中心地下 F2 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Concrete	Curing of test specimens	CS1: 2010 Section 10
	Compressive strength of concrete cubes in the force range 50 kN - 3000 kN	CS1: 2010 Section 12
	Compressive strength of concrete cores in the force range 50 kN - 3000 kN	CS1: 2010 Section 15
	Density of hardened concrete	CS1: 2010 Section 16
Grout	Compressive strength of grout cubes in the force range 20 kN to 3000 kN	CS1: 2010 Section 12 Hong Kong Housing Authority Materials Testing Services (2022/2024) for Construction Materials Specification Part D Cl. 2.1

MINSEN Testing (Hong Kong) Limited
明晟檢測(香港)有限公司
Unit F2, G/F, Tuen Mun Industrial Centre, 2 San Ping Circuit, Tuen Mun, New Territories, Hong Kong
香港新界屯門新平街 2 號屯門工業中心地下 F2 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Metallic materials	Bond property of steel reinforcing bars by surface geometry measurement	CS2: 2012 (Rev. 6) Cl. 6.1 & 6.7.2 in conjunction with the following specification(s): BS 4449: 2005 + A2: 2009 Cl. 7.4 & 9
	Breaking force test of steel wire ropes in the force range of 2 kN to 2000 kN	BS EN 12385-1: 2002 + A1: 2008 Cl. 6.4.1 ISO 3108: 2017 in conjunction with the following specification(s): BS EN 12385-2: 2002 + A1: 2008 BS EN 12385-3: 2002 + A1: 2008 BS EN 12385-4: 2002 + A1: 2008 BS EN 12385-5: 2002 BS EN 12385-6: 2004 BS EN 12385-7: 2002 BS EN 12385-8: 2002 BS EN 12385-9: 2002 BS EN 12385-10: 2003 + A1: 2008 ISO 2408: 2017
	Charpy V-notch impact test	BS 131-2: 1972 BS EN 10045-1: 1990 BS EN ISO 148-1: 2016 in conjunction with the following specification(s): BS 4360: 1986 Cl. 27 BS 4360: 1990 Cl. 25 to 27 BS EN 10025-1: 2004 Cl. 10.2.2 BS EN 10025-2: 2004 Cl. 10.2 & Table 9 BS EN 10025-3: 2004 Cl. 10.2, Table 6 & 7 BS EN 10025-4: 2004 Cl. 10.2, Table 6 & 7 BS EN 10025-5: 2004 Cl. 10.2, Table 5 BS EN 10025-6: 2004 + A1: 2009 Cl. 10.2, Table 6 & 7 BS EN 10210-1: 2006 Cl. 6.6.2, 9.2.3, Table A.3 & B.3 BS EN 10219-1: 2006 Cl.6.7.2, 9.2.3, Table A.3, B.4 & B.5
	Dimensions of forged steel shackles	BS EN 13889: 2003 + A1: 2008 Cl. 5.1 & Table 2
	Mass per metre of steel reinforcing bars, wire rods and wires	BS EN ISO 15630-1: 2002 Cl. 12 CS2: 2012 (Rev. 6) Cl. 6.1 & 6.2 in conjunction with the following specification(s): BS 4482: 1985 Cl. 9 & App. A BS 4482: 2005 + Amd. 1: 2007 Cl. 7.3 & 9 BS 4449: 1997 Cl. 5 & Annex B.1 BS 4449: 2005 + A2: 2009 Cl. 7.2.2, 7.3 & 9

MINSEN Testing (Hong Kong) Limited
明晟檢測(香港)有限公司
Unit F2, G/F, Tuen Mun Industrial Centre, 2 San Ping Circuit, Tuen Mun, New Territories, Hong Kong
香港新界屯門新平街 2 號屯門工業中心地下 F2 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Metallic materials (cont'd)	Mass per metre square, pitch and dimension of steel fabrics for reinforcement of concrete	BS 4483: 1998 Cl. 6 & 10 BS EN ISO 15630-1: 2002 Cl. 12 in conjunction with the following specification(s): BS 4483: 2005 Cl. 7.3, 8.1.3.2, 9 & BS 4449: 2005 + A2: 2009 Cl. 7.3 & 9
	Proof load test of stainless steel nuts in the force range 2 kN – 2000 kN	BS EN ISO 898-2: 2012 Cl. 9.1 in conjunction with the following specification(s): BS EN ISO 3506-2: 2020 Cl. 10.1
	Proof load test of steel nuts in the force range 2 kN – 2000 kN	BS 3692: 2014 Annex C.1 BS 4190: 2014 Annex A.1 BS EN ISO 898-2: 2012 Cl. 9.1
	Proof load test of unmachined (finished) bolts, screws and studs in the force range 2 kN – 2000 kN	BS EN ISO 898-1: 2013 Cl. 9.6 in conjunction with the following specification(s): BS 3692: 2014 Cl. 14 & 21
	Rebend test of reinforcing bars, wire rods, welded fabrics or cold reduced wires for reinforcement of concrete	BS EN ISO 15630-1: 2002 Cl. 7 CS2: 2012 (Rev. 6) Cl. 6.1 & 6.5 in conjunction with the following specification(s): BS 4449: 1997 Cl. 11.3 & App. E.1.6 BS 4449: 2005 + A2: 2009 Cl. 7.2.5 & 9 BS 4482: 1985 Cl. 12.2 & App. C.5 BS 4482: 2005 + Amd. 1: 2007 Cl. 7.2.4 & 9 BS 4483: 1998 Cl. 13.1 BS 4483: 2005 Cl. 7.2.5 & 8.1.3.2 & 9
	Static tension test, static compression test, cyclic tension & compression tests for mechanical connector systems (Type 2 Splice) for steel reinforcing bars in the force range 10 kN - 2000 kN	ICC Evaluation Service, Inc. AC133 (Approved May 2008, Effective 1 Jun 2008) Cl. 4.1.2 with modifications ICC Evaluation Service, Inc. AC133 (Approved Jan 2010, Effective 1 Jul 2010) Cl. 4.1.2 with modifications ICC Evaluation Service, Inc. AC133 (Approved Oct 2015) Cl. 4.1.2 with modifications in conjunction with the following specification(s): Buildings Department Code of Practice for Structural Use of Concrete (2013) Cl. 3.2.8.4(b), (c) & (d)
	Static tensile test of forged steel shackles in the force range 2 kN – 2000 kN	BS EN 13889: 2003 + A1: 2008 Cl. 6.2.3 & Table 4

MINSEN Testing (Hong Kong) Limited
明晟檢測(香港)有限公司
Unit F2, G/F, Tuen Mun Industrial Centre, 2 San Ping Circuit, Tuen Mun, New Territories, Hong Kong
香港新界屯門新平街 2 號屯門工業中心地下 F2 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Metallic materials (cont'd)	Tensile test of high tensile 7-wire strands in the force range 10 kN - 2000 kN	BS 18-2: 1971 BS EN ISO 6892-1: 2019 Cl. 10.3.2 & 10.3.3 Methods A & B BS EN ISO 15630-3: 2002 Cl. 5 BS EN ISO 15630-3: 2010 Cl. 5 BS EN ISO 15630-3: 2019 Cl. 5 in conjunction with the following specification(s): BS 5896: 1980 App. A BS 5896: 2012 Cl. 7.2.2
	Tensile test of metallic materials in the force range 2 kN - 2000 kN	BS 18: 1987 in conjunction with the following specification(s): BS 4360: 1986 Cl. 23 BS EN 10002-1: 2001 BS EN ISO 6892-1: 2009 Cl. 10.3 & 10.4 Methods A & B BS EN ISO 6892-1: 2016 Cl. 10.3.2 & 10.3.3 Methods A1, A2 & B BS EN ISO 6892-1: 2019 Cl. 10.3.2 & 10.3.3 Methods A & B in conjunction with the following specification(s): BS 4360: 1990 Cl. 23 BS EN 10025-1: 2004 Cl. 7.3.1, 9.2.3.2 & 10.2.1 BS EN 10025-2: 2004 Cl. 10.2 & Table 7 BS EN 10025-3: 2004 Cl. 10.2 & Table 5 BS EN 10025-4: 2004 Cl. 10.2 & Table 5 BS EN 10025-5: 2004 Cl. 10.2 & Table 4 BS EN 10025-6: 2004 + A1: 2009 Cl. 10.2, Table 5 BS EN 10210-1: 2006 Cl. 6.6.1, 9.2.1 & 9.2.2 BS EN 10219-1: 2006 Cl. 6.7.1, 9.2.1 & 9.2.2
	Tensile test & slip/permanent elongation test of mechanical couplers for reinforcing bar in the force range 2 kN - 2000 kN	BS EN ISO 6892-1: 2009 Cl. 10.3 & 10.4 Methods A & B & ISO 15835-2: 2018 Cl. 5.4 excluding Cl. 5.4.4 BS EN ISO 6892-1: 2019 Cl. 10.3.2 & 10.3.3 Methods A & B & ISO 15835-2: 2018 Cl. 5.4 excluding Cl. 5.4.4 in conjunction with the following specification(s): ISO 15835-1: 2018 Cl.5.4.1 & 5.4.2 BS 8110: Part 1: 1997 Cl. 3.12.8.16.2 Buildings Department Code of Practice for Structural Use of Concrete (2004) Cl. 3.2.8.2 Buildings Department Code of Practice for Structural Use of Concrete (2013) Cl. 3.2.8.3 General specification for Civil Engineering Works (2006) Vol. 2 Cl. 15.35 General specification for Civil Engineering Works (2020) Vol. 2 Cl. 15.35

MINSEN Testing (Hong Kong) Limited
明晟檢測(香港)有限公司
Unit F2, G/F, Tuen Mun Industrial Centre, 2 San Ping Circuit, Tuen Mun, New Territories, Hong Kong
香港新界屯門新平街 2 號屯門工業中心地下 F2 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Metallic materials (cont'd)	Tensile test of machined bolts and screws in the force range 2 kN – 2000 kN	BS EN ISO 6892-1: 2019 Cl. 10.3.2 & 10.3.3 Methods A & B in conjunction with the following specification(s): BS 3692: 2014 Cl. 14 & 21 BS 4190: 2014 Cl. 15 & 21 BS EN ISO 898-1: 2013 Cl. 9.7
	Tensile test of unmachined (finished) bolts and screws in the force range 2 kN – 2000 kN	BS EN ISO 6892-1: 2019 Cl. 10.3.2 & 10.3.3 Methods A & B in conjunction with the following specification(s): BS 3692: 2014 Cl. 14 & 21 BS 4190: 2014 Cl. 15 & 21 BS EN ISO 898-1: 2013 Cl. 9.2
	Tensile test of stainless steel bolts, screws and studs in the force range 2 kN – 2000 kN	BS EN ISO 3506-2: 2020 Cl. 10.1
	Tensile test of reinforcing bars, wire rods, welded fabrics or cold reduced wires for reinforcement of concrete in the force range 2 kN - 2000 kN	BS EN 10002-1: 2001 BS EN ISO 6892-1: 2009 Cl. 10.3 & 10.4 Methods A & B in conjunction with the following specification(s): BS 4449: 1997 Cl. 11.1 & 11.2 BS 4449: 2005 + A2: 2009 Cl. 7.2.2, 7.2.3 & 8.1.3.1 & 9 BS 4482: 1985 Cl. 12.1 & App. C.3 BS 4482: 2005 + Amd. 1: 2007 Cl. 8.1.3.1 & 9 BS 4483: 1998 Cl. 13.1 BS 4483: 2005 Cl. 7.2.2, 7.2.3, 8.1.3.1 & 9 BS EN ISO 15630-1: 2002 Cl. 5 BS EN ISO 15630-2: 2002 Cl. 5 CS2: 2012 (Rev. 6) Cl. 6.1 & 6.4
	Weld shear force test of steel fabrics for reinforcement of concrete	BS EN ISO 15630-2: 2002 Cl. 7 in conjunction with the following specification(s): BS 4483: 2005 + Amd. 1: 2007 Cl. 7.2.2, 7.2.4 & 9 ISO 10287: 1992 in conjunction with the following specification(s): BS 4483: 1998 Cl. 13.2
	Test for deformation of forged steel shackles in the force range 2 kN – 2000 kN	BS EN 13889: 2003 + A1: 2008 Cl. 6.2.2 & Table 4

Independent Testing Engineering Limited
毅騰檢測工程有限公司

ADDRESS 地址	:	Flat S & U, 19/F, Block 2, Goldfield Industrial Building, 144-150 Tai Lin Pai Road, Kwai Chung, New Territories, Hong Kong 香港新界葵涌大連排道 144-150 號金豐工業大廈第二期 19 字樓 S 及 U 室
ENQUIRY 查詢	:	Mr LEUNG Kam-chuen, Quality Manager 梁金泉先生，品質部經理
TELEPHONE 電話	:	3590 8869 / 9051 9338
FAX 傳真	:	3590 8897
E-MAIL 電郵	:	Itelhk2013@gmail.com
CLIENTELE 服務對象	:	Public 公眾

Independent Testing Engineering Limited
毅騰檢測工程有限公司

ADDRESS
地址

Main Laboratory	:	Flat S & U, 19/F, Block 2, Goldfield Industrial Building, 144-150 Tai Lin Pai Road, Kwai Chung, New Territories, Hong Kong 香港新界葵涌大連排道 144-150 號金豐工業大廈第二期 19 字樓 S 及 U 室
ACCREDITED TEST CATEGORY **認可測試類別**	:	Calibration Services 校正服務 Construction Materials 建築材料

Independent Testing Engineering Limited
毅騰檢測工程有限公司

Flat S & U, 19/F, Block 2, Goldfield Industrial Building, 144-150 Tai Lin Pai Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌大連排道 144-150 號金豐工業大廈第二期 19 字樓 S 及 U 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Construction materials testing equipment		
- Curing tank	On-site verification of the following parameters in accordance with in-house method CA-TM-022 for the requirements specified in CS1: 1990: Vol. 1 Cl. A24	
	- temperature distribution at a range of (27 ± 3) ℃	0.85 K
	- efficiency of circulation	30 s
	On-site verification of the following parameters in accordance with in-house method CA-TM-022 for the requirements specified in CS1: 2010: Vol. 1 Cl. A28	
	- temperature distribution at a range of (27 ± 3) ℃	0.85 K
	- efficiency of circulation	30 s
- Weld gauge	Calibration of the following parameters in accordance with in-house method CA-TM-025:	
	Length scale: 0 mm to 60 mm	0.6 mm
	Scale measuring bevel angle: 0° to 90°	3°
	Scale measuring cap height, misalignment and leg: 0 mm to 25 mm	0.6 mm
	Scale measuring undercut depth: 0 mm to 2 mm	0.6 mm
	Scale measuring weld throat thickness: 2 mm to 20 mm	0.6 mm

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Independent Testing Engineering Limited
毅騰檢測工程有限公司

Flat S & U, 19/F, Block 2, Goldfield Industrial Building, 144-150 Tai Lin Pai Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌大連排道 144-150 號金豐工業大廈第二期 19 字樓 S 及 U 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Electrical measurements		
- Time and frequency measuring instruments		
- Digital stop watch / Timer	Calibration of time in accordance with in-house method CA-TM-029 over the following range :	
	10 s to 3600 s	0.3 s

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Independent Testing Engineering Limited
毅騰檢測工程有限公司

Flat S & U, 19/F, Block 2, Goldfield Industrial Building, 144-150 Tai Lin Pai Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌大連排道 144-150 號金豐工業大廈第二期 19 字樓 S 及 U 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Length and related measurements		
- Length measurements		
- Caliper	Calibration of length using gauge blocks in accordance with in-house method CA-TM-001 over the following range :	
	External measurement: 1 mm to 300 mm	0.02 mm
	Internal measurement: 1 mm to 300 mm	0.02 mm
	Depth measurement: 20 mm	0.02 mm
- Coating thickness gauge	Calibration of thickness using reference foils in accordance with in-house method CA-TM-002 over the following range :	
	50 μm to 1500 μm	5 μm
- Dial gauge	Calibration of length using micrometer head in accordance with in-house method CA-TM-003 over the following range :	
	1 mm to 50 mm	10 μm
- Engineers' steel rule	Calibration of length using reference rule in accordance with in-house method CA-TM-009 over the following range :	
	2 mm to 1000 mm	0.6 mm
- External micrometer	Calibration of length using gauge blocks in accordance with BS 870: 2008 Annex A.6 over the following range :	
	0.5 mm to 25 mm	2.2 μm

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Independent Testing Engineering Limited
毅騰檢測工程有限公司

Flat S & U, 19/F, Block 2, Goldfield Industrial Building, 144-150 Tai Lin Pai Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌大連排道 144-150 號金豐工業大廈第二期 19 字樓 S 及 U 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Length and related measurements (cont'd)		
- Length measurements (cont'd)		
- Measuring tape	Calibration of length using reference rule in accordance with in-house method CA-TM-006 over the following range :	
	2 mm to 5 m	0.8 mm to 4 mm
	Calibration of length using reference measuring tape in accordance with in-house method CA-TM-034 over the following range :	
	1 m to 100 m	2 mm to 40 mm
- Linear displacement indicator	Calibration of length using gauge blocks in accordance with in-house method CA-TM-033 over the following range :	
	1 mm to 50 mm	3 μm
- Plastic calibration foil	Calibration of thickness using external micrometer in accordance with in-house method CAL-TM-008 over the following range :	
	50 μm to 1500 μm	5 μm

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Independent Testing Engineering Limited
毅騰檢測工程有限公司

Flat S & U, 19/F, Block 2, Goldfield Industrial Building, 144-150 Tai Lin Pai Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌大連排道 144-150 號金豐工業大廈第二期 19 字樓 S 及 U 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related measurements		
- Mass measurements		
- Balance	Calibration of mass using OIML Class F1 weights from 1 mg to 20 kg in accordance with in-house method CA-TM-012 over the following ranges :	
	1 g to 5 kg	25 mg
	above 5 kg to 30 kg	1.5 g
	On-site calibration of mass using OIML Class F1 weights from 1 mg to 20 kg in accordance with in-house method CA-TM-012 over the following ranges :	
	1 g to 5 kg	25 mg
	above 5 kg to 30 kg	1.5 g
- Weight (Non-standard values)	Calibration of mass using reference balance in accordance with in-house method CAL-TM-017 over the following ranges :	
	500 g to 10 kg	1.2 g
	above 10 kg to 30 kg	24 g

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Independent Testing Engineering Limited
毅騰檢測工程有限公司

Flat S & U, 19/F, Block 2, Goldfield Industrial Building, 144-150 Tai Lin Pai Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌大連排道 144-150 號金豐工業大廈第二期 19 字樓 S 及 U 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related measurements		
- Mass measurements		
- Pressure gauge	Calibration of hydraulic pressure by comparison with reference pressure gauge (using oil as pressure medium) in accordance with in-house method CA-TM-032 over the following range:	
	20 kPa to 2000 kPa	0.4 % of reading
	above 2000kPa to 70000 kPa	1.4 % of reading
	Calibration of hydraulic pressure by comparison with reference pressure gauge (using water as pressure medium) in accordance with in-house method CA-TM-032 over the following range:	
	20 kPa to 2000 kPa	0.4 % of reading
	Calibration of gauge pressure by comparison with reference pressure gauge (using air as pressure medium) in accordance with in-house method CA-TM-032 over the following range:	
	5 kPa to 200 kPa	0.4 % of reading
- Torque measurements		
- Torque wrench	Calibration of torque using reference torque wrench tester in accordance with BS EN ISO 6789: 2003 cl. 6 over the following range :	
	from 40 Nm to 500 Nm	3.0 % of reading
	Calibration of torque using reference torque wrench tester in accordance with in-house method CA-TM-015 over the following range :	
	from 40 Nm to 500 Nm	3.0 % of reading

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Independent Testing Engineering Limited
毅騰檢測工程有限公司

Flat S & U, 19/F, Block 2, Goldfield Industrial Building, 144-150 Tai Lin Pai Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌大連排道 144-150 號金豐工業大廈第二期 19 字樓 S 及 U 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Temperature and humidity measurements		
- Temperature measurements		
- Digital thermometer	Calibration of temperature using reference platinum resistance thermometer in accordance with in-house method CA-TM-020 over the following range :	
	-20 ºC to 120 ºC	0.2 K
- Liquid in glass thermometer (LIGT)	Calibration of temperature using reference platinum resistance thermometer in accordance in-house method CA-TM-020 over the following range :	
	0 ºC to 120 ºC	0.6 K

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Independent Testing Engineering Limited
毅騰檢測工程有限公司

Flat S & U, 19/F, Block 2, Goldfield Industrial Building, 144-150 Tai Lin Pai Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌大連排道 144-150 號金豐工業大廈第二期 19 字樓 S 及 U 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Metallic materials (non-destructive)	Ultrasonic test of H beams with parallel flanges and IPE beams	BS EN 10306: 2002
	Ultrasonic test of metallic materials (reflection method)	BS 5996: 1993 BS EN 10160: 1999
Structural fixings	Tensile proof load test of anchors by incremental loading in the force range 1 kN – 200 kN	BS 5080: Part 1: 1993 Cl. 6, 7.1.1 & 7.1.3 with modifications
	Tensile proof load test of drilled-in anchors used for cantilevered structure/hanger/curtain wall remedial works by incremental loading in the force range 5 kN – 200 kN	Buildings Department PNAP APP-169 (Oct 2023) App. A
	Tensile proof load test of drilled-in anchors used for works other than cantilevered structure/ hanger/curtain wall remedial works in the force range 1 kN – 200 kN	Buildings Department PNAP APP-169 (Oct 2023) App. B
Welds (non-destructive)	Liquid penetrant test (Colour contrast method)	BS 6443: 1984 + Amd. 4844 BS EN 571: Part 1: 1997 BS EN ISO 3452: Part 1: 2013 in conjunction with the following specification(s): BS 4515-1: 2000 Table 5 BS 5135: 1984 Table 18 & 19 BS EN 25817: 1992 Table 1 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 Buildings Departments Code of Practice for the Structural Use of Steel (2011) Table 14.3b
	Magnetic particle test (magnetic flow method, color contrast technique using permanent magnets and A .C. yokes)	BS 6072: 1981 + Amd. 3960 + Amd. 4542 + Amd. 4843 BS EN 1290: 1998 BS EN ISO 9934: Part 1: 2001 BS EN ISO 9934: Part 1: 2016 BS EN ISO 17638: 2009 BS EN ISO 17638: 2016 in conjunction with the following specification(s): BS 4515-1: 2000 Table 5 BS 5135: 1984 Table 18 & 19 BS EN 25817: 1992 Table 1 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 Buildings Departments Code of Practice for the Structural Use of Steel (2011) Table 14.3b

Independent Testing Engineering Limited
毅騰檢測工程有限公司

Flat S & U, 19/F, Block 2, Goldfield Industrial Building, 144-150 Tai Lin Pai Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌大連排道 144-150 號金豐工業大廈第二期 19 字樓 S 及 U 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Welds (non-destructive) (cont'd)	Ultrasonic test (Butt welds in plates and pipes, 'T'- joint welds and node welds)	BS 3923: Part 1: 1986 (Level 1, 2a, 2b & 3) BS EN 1714: 1998 + A2: 2003 (Level A, B, & C) BS EN ISO 17640: 2010 (Level A, B, & C) BS EN ISO 17640: 2018 (Level A, B, & C) in conjunction with the following specification(s): BS 4515-1: 2000 Table 5 BS 5135: 1984 Table 18 & 19 BS EN 25817: 1992 Table 1 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 Buildings Departments Code of Practice for the Structural Use of Steel (2011) Table 14.3b
	Visual examination	BS 5289: 1976 BS EN 970: 1997 BS EN ISO 17637: 2011 BS EN ISO 17637: 2016 in conjunction with the following specification(s): BS 4515-1: 2000 Table 5 BS 5135: 1984 Table 18 & 19 BS EN 25817: 1992 Table 1 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 Buildings Departments Code of Practice for the Structural Use of Steel (2011) Table 14.3b
	Visual examination and bend test on stud connectors	<Visual examination as follows:> BS 5289: 1976 BS EN 970: 1997 BS EN ISO 17637: 2011 BS EN ISO 17637: 2016 <together with the following bend test method:> BS 5400: Part 6: 1999 Cl. 5.5.4(b) BS EN ISO 14555: 2006 Cl. 11.2, 11.3 (excluding Torque wrench method), 12.2 & 12.3 Buildings Department Code of Practice for the Structural Use of Steel (2005) Cl. 14.3.7.3 Buildings Department Code of Practice for the Structural Use of Steel (2011) Cl. 14.3.7.3

Hong Kong Gemological Research and Authentication Centre Company Limited
香港寶石研究及鑑定中心有限公司

ADDRESS 地址	:	Room 8, 2/F, Block A, Hong Kong Industrial Centre, 489-491 Castle Peak Road, Kowloon, Hong Kong 香港九龍青山道489-491號香港工業中心A座二樓A8室
ENQUIRY 查詢	:	Mr CHEUNG Wai-kei, Quality Manager 張偉基先生，品檢經理
TELEPHONE 電話	:	2991 0383
FAX 傳真	:	-
E-MAIL 電郵	:	cheung.wai.kei@chowsangsang.com
WEBSITE ADDRESS 網址	:	http://www.hongkonggrace.com
CLIENTELE 服務對象	:	Public testing services 公眾測試服務

Hong Kong Gemological Research and Authentication Centre Company Limited
香港寶石研究及鑑定中心有限公司

ADDRESS **地址**	:	Room 8, 2/F, Block A, Hong Kong Industrial Centre, 489-491 Castle Peak Road, Kowloon, Hong Kong 香港九龍青山道 489-491 號香港工業中心 A 座二樓 A8 室
ACCREDITED TEST CATEGORY **認可測試類別**	:	Physical and Mechanical Testing 物理及機械測試

Hong Kong Gemological Research and Authentication Centre Company Limited
香港寶石研究及鑑定中心有限公司

Room 8, 2/F, Block A, Hong Kong Industrial Centre, 489-491 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道 489-491 號香港工業中心 A 座二樓 A8 室

Physical and Mechanical Testing 物理及機械測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Gemstone Testing (Fei Cui)	Shape and cut identification	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 1
	Measurement of dimensions	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 2
	Measurement of weight	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 3
	Identification of transparency	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 4
	Identification of colour	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 5
	Polariscope examination	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 6
	Determination of refractive index	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 7
	Determination of specific gravity	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 8
	Examination of fluorescence	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 9

Hong Kong Gemological Research and Authentication Centre Company Limited
香港寶石研究及鑑定中心有限公司

Room 8, 2/F, Block A, Hong Kong Industrial Centre, 489-491 Castle Peak Road, Kowloon, Hong Kong
香港九龍青山道 489-491 號香港工業中心 A 座二樓 A8 室

Physical and Mechanical Testing 物理及機械測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Gemstone Testing (Fei Cui) (cont'd)	Chelsea colour filter examination	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 10
	Spectroscopic examination	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 11
	Magnification examination	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 12
	Infrared spectrum examination	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited, Standard Testing Method 13
	Identification of Fei Cui and its type	Standard Methods for Testing Fei Cui for Hong Kong (HKSM/FCT-2016) issued by The Gemmological Association of Hong Kong Limited

Hong Kong Baptist University - Research Centre for Standardization of Chinese Medicines
香港浸會大學中藥標準化研究中心

ADDRESS 地址	:	Room 705, Jockey Club School of Chinese Medicine Building, Hong Kong Baptist University, Kowloon Tong, Kowloon, Hong Kong 香港九龍九龍塘香港浸會大學賽馬會中醫藥學院大樓705室
ENQUIRY 查詢	:	Dr LAM Yin-ching, Technical Manager 林燕靖博士, 技術經理
TELEPHONE 電話	:	3411 2936
FAX 傳真	:	3411 2461
E-MAIL 電郵	:	cscm@hkbu.edu.hk
WEBSITE ADDRESS 網址	:	http://cscm.hkbu.edu.hk
CLIENTELE 服務對象	:	Public 公眾

Hong Kong Baptist University - Research Centre for Standardization of Chinese Medicines
香港浸會大學中藥標準化研究中心

ADDRESS **地址**	:	Room 705, Jockey Club School of Chinese Medicine Building, Hong Kong Baptist University, Kowloon Tong, Kowloon, Hong Kong 香港九龍九龍塘香港浸會大學賽馬會中醫藥學院大樓 705 室
ACCREDITED TEST CATEGORY **認可測試類別**	:	Chinese Medicine 中藥

Hong Kong Baptist University - Research Centre for Standardization of Chinese Medicines
香港浸會大學中藥標準化研究中心
Room 705, Jockey Club School of Chinese Medicine Building, Hong Kong Baptist University, Kowloon Tong, Kowloon , Hong Kong
香港九龍九龍塘香港浸會大學賽馬會中醫藥學院大樓 705 室

Chinese Medicine 中藥		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Carthami Flos (Powder) 紅花 (粉末)	Microscopic examination:- - Microscopic identification 顯微鑒別	Hong Kong Chinese Materia Medica Standards Volume 6 香港中藥材標準第六冊

深圳市力信特檢測科技有限公司

ADDRESS : B12, Moon Bay Village, Nanshan District, Shenzhen, Guangdong, China
地址 中國廣東深圳市南山區南山街道興海大道月亮灣山莊B12

ENQUIRY : Mr Storm LEI, Quality Supervisor
查詢 雷雨先生，質量主管

TELEPHONE : +86 755 26420019
電話

FAX : -
傳真

E-MAIL : ndt-nts@vip.sina.com
電郵

Website Address : www.sznts.net
網址

CLIENTELE : Public
服務對象 公眾

深圳市力信特檢測科技有限公司

ADDRESS
地址 : B12, Moon Bay Village, Nanshan District, Shenzhen, Guangdong, China
中國廣東深圳市南山區南山街道興海大道月亮灣山莊 B12

ACCREDITED TEST CATEGORY
認可測試類別 : Construction Materials
建築材料

深圳市力信特檢測科技有限公司
B12, Moon Bay Village, Nanshan District, Shenzhen, Guangdong, China
中國廣東深圳市南山區南山街道興海大道月亮灣山莊 B12

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Welds (non-destructive)	Ultrasonic test (butt welds in plates and pipes, 'T' joint welds nozzle welds and node welds)	BS EN ISO 17640: 2010 (Level A, B & C) BS EN ISO 17640: 2018 (Level A, B & C) in conjunction with the following specification(s): EN ISO 5817: 2014 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b
	Magnetic particle test (Magnetic flow method, colour contrast technique using permanent magnets, A.C. yokes)	BS EN ISO 17638: 2009 BS EN ISO 17638: 2016 in conjunction with the following specification(s): EN ISO 5817: 2014 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b
	Visual examination	BS EN ISO 17637: 2011 BS EN ISO 17637: 2016 in conjunction with the following specification(s): EN ISO 5817: 2014 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b

Aspec (HK) Limited – Aspec Testing
宏基環保(香港)有限公司 – 宏基檢定

ADDRESS 地址	:	Flat B, 10/F, Hong Kong Industrial Building, 444 – 452 Des Voeux Road West, Sai Wan, Hong Kong. 香港西環德輔道西 444 – 452 號香港工業大廈 10 字樓 B 室
ENQUIRY 查詢	:	Mr YARNALL, Lee Hatherley – Laboratory Manager
TELEPHONE 電話	:	3101 0671
FAX 傳真	:	3101 0647
E-MAIL 電郵	:	mail@aspec.biz
WEBSITE ADDRESS 網址	:	www.aspec.biz
CLIENTELE 服務對象	:	Public 公眾

Aspec (HK) Limited – Aspec Testing
宏基環保(香港)有限公司 – 宏基檢定

ADDRESS : Flat B, 10/F, Hong Kong Industrial Building, 444 – 452 Des Voeux Road West, Sai Wan, Hong Kong.
地址 香港西環德輔道西 444 – 452 號香港工業大廈 10 字樓 B 室

ACCREDITED TEST CATEGORY : Environmental Testing 環境測試
認可測試類別

Aspec (HK) Limited – Aspec Testing
宏基環保(香港)有限公司 – 宏基檢定

Flat B, 10/F, Hong Kong Industrial Building, 444 – 452 Des Voeux Road West, Sai Wan, Hong Kong
香港西環德輔道西 444 – 452 號香港工業大廈 10 字樓 B 室

Environmental Testing 環境測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Asbestos in bulk material	Bulk material sampling for asbestos identification a) Spray coatings b) Pipe/thermal insulation c) Insulating board d) Asbestos cement e) Gaskets, seals and textiles f) Floor and wall coverings	HSG 248 (1st edition: 2006) Cl. 4
Asbestos in bulk sample	Identification a) Determination for presence and type of Asbestos in bulk materials b) Asbestos-containing material	HSG 248 (1st edition: 2006) App. 2 EPA 600/R-93/116 (1993 Revised Method), Section 2.1 to 2.2 (excluding all quantitation content) Air Pollution Control Ordinance, Section 2 (G.N. 884, Gazette Published on 14/02/2014 No. 07 Vol. 18) Method for Determining Asbestos Containing Material under Section 2 of the Air Pollution Control Ordinance
Asbestos air-borne samples	Sampling of airborne fibre a) Personal sampling b) Background or reassuring sampling c) Leak testing d) Clearance test for site reoccupation	HSG 248 (1st edition: 2006) Cl. 5
Asbestos air-borne samples	Airborne fibre concentration	HSG 248 (1st edition: 2006) App. 1

Laboratory Specialist Co., Limited
納思試驗有限公司

ADDRESS 地址	:	Flat C, 5/F, Century Industrial Centre, Nos. 33-35 Au Pui Wan Street, Fotan, New Territories, Hong Kong 香港新界火炭坳背灣街 33-35 號世紀工業大廈 5 樓 C 室
ENQUIRY 查詢	:	Mr Ken LAI Tsz-kin, Deputy General Manager 黎子健先生，部門副經理
TELEPHONE 電話	:	3690 8922
FAX 傳真	:	3690 8923
E-MAIL 電郵	:	info@labspec.hk
Website Address 網址	:	-
CLIENTELE 服務對象	:	Public 公眾

Laboratory Specialist Co., Limited
納思試驗有限公司

ADDRESS **地址**	:	Flat C, 5/F, Century Industrial Centre, Nos. 33-35 Au Pui Wan Street, Fotan, New Territories, Hong Kong 香港新界火炭坳背灣街 33-35 號世紀工業大廈 5 樓 C 室
ACCREDITED TEST CATEGORY **認可測試類別**	:	Construction Materials 建築材料

Laboratory Specialist Co., Limited
納思試驗有限公司
Flat C, 5/F, Century Industrial Centre, Nos. 33-35 Au Pui Wan Street, Fotan, New Territories, Hong Kong
香港新界火炭坳背灣街 33-35 號世紀工業大厦 5 樓 C 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Concrete (diagnostic)	Infrared thermography for detection of building surface defects	Hong Kong Concrete Institute TM1 Issue 2 (2022)
	Surface penetration radar survey for determination of concrete cover and distribution of steel reinforcement	Hong Kong Concrete Institute TM2 (2009)
Foundation	Compression static loading tests on pile (SLT)	Architectural Services Department General Specification for Building (2012) Section 5.28 Architectural Services Department General Specification for Building (2017) Section 5.29 Buildings Department Code of Practice for Foundations (2017) Cl. 8.4 General Specification for Civil Engineering Works (2006) Vol. 1 App. 8.1 General Specification for Civil Engineering Works (2020) Vol. 1 App. 8.1 Hong Kong Housing Authority Specification Library (2018) PIL1.T610.8 to PIL1.T1110.8 Hong Kong Housing Authority Specification Library (2022) PIL1.T610.9 to PIL1.T1110.9
	Plate load test (PLT)	BS 1377: Part 9: 1990 + Amd. No. 1 Cl. 4.1 (incremental loading) excluding Cl. 4.1.6.1 Buildings Department Code of Practice for Foundations (Apr 2017) Cl. 8.2(2) excluding 8.2(2)(f) to (h) Hong Kong Housing Authority Specification Library (2018) GIN.T190.8 Hong Kong Housing Authority Specification Library (2022) GIN.T190.9
	Tension static loading test on pile (SLT)	Architectural Services Department, Technical Instruction No. 4/2005 (revision date: Jun 2019): Particular Specification for Tension Piles Buildings Department Code of Practice for Foundations (2004) Cl. 8.10 Buildings Department Code of Practice for Foundations (2017) Cl. 8.10
	Ultrasonic echo sounder test (UEST)	Hong Kong Concrete Institute TM3 Issue 2 (2024)

Laboratory Specialist Co., Limited
納思試驗有限公司
Flat C, 5/F, Century Industrial Centre, Nos. 33-35 Au Pui Wan Street, Fotan, New Territories, Hong Kong
香港新界火炭坳背灣街 33-35 號世紀工業大廈 5 樓 C 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Underground utility survey	Pipe cable locating / Electromagnetic locating	Specifications for Nondestructive Testing, Surveying, Imaging and Diagnostic for Underground Utilities - 1.1 Pipe Cable Locating / Electromagnetic Locating (2019) published by Department of Land Surveying and Geo-informatics (LSGI) of The Hong Kong Polytechnic University

AA Lab Limited

ADDRESS 地址	:	Flat I, 5/F, Fu Cheung Centre, 5-7 Wong Chuk Yeung Street, Fotan, Shatin, New Territories, Hong Kong 香港新界沙田火炭黃竹洋街5-7號富昌中心5樓I室
ENQUIRY 查詢	:	Mr SO Chi-kuen, Department Head 蘇志權先生，部門主管
TELEPHONE 電話	:	3705 0140
FAX 傳真	:	3705 0141
E-MAIL 電郵	:	info@aalab.hk
WEBSITE ADDRESS 網址	:	https://aalabltd.com
CLIENTELE 服務對象	:	Public 公眾

AA Lab Limited

ADDRESS **地址**	:	Flat I, 5/F, Fu Cheung Centre, 5-7 Wong Chuk Yeung Street, Fotan, Shatin, New Territories, Hong Kong 香港新界沙田火炭黃竹洋街 5-7 號富昌中心 5 樓 I 室
ACCREDITED TEST CATEGORIES **認可測試類別**	:	Calibration Services 校正服務 Construction Materials 建築材料

AA Lab Limited

Flat I, 5/F, Fu Cheung Centre, 5-7 Wong Chuk Yeung Street, Fotan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 5-7 號富昌中心 5 樓 I 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Construction materials testing equipment		
- Rebound hammer	Calibration for rebound value in accordance with in-house method CAL017 using an anvil complying with BS EN 12504-2: 2001 Cl. 4.2, or BS EN 12504-2: 2012 Cl. 4.2	1 rebound count
Length and related measurements		
- Angle measuring instrument		
- Inclinometer	Calibration for angle in accordance with in-house method CAL 011 over the following range :	
	5 º to 90 º	0.2 º
- Spirit level 150 mm to 1200 mm	Calibration for angle of tilt in accordance with in-house method CAL 034 over the following range :	
	0.01 º to 1 º (sensitivity check between graduation lines)	2 min of arc
	0.01 º to 1 º (zero check of vertical and horizontal bubbles)	2 min of arc
- Length measuring instrument		
- Calliper	Calibration for length in accordance with in-house method CAL 004 over the following range :	.
	External measurement: 1 mm to 300 mm	0.02 mm
	Internal measurement: 10 mm to 300 mm	0.02 mm

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

AA Lab Limited

Flat I, 5/F, Fu Cheung Centre, 5-7 Wong Chuk Yeung Street, Fotan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 5-7 號富昌中心 5 樓 I 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Length and related measurements (cont'd)		
- Length measuring instrument (cont'd)		
- Coating thickness gauge	Calibration for thickness in accordance with in-house method CAL 018 over the following range : 50 μm to 1000 μm	 5 μm
- Engineers' steel rule	Calibration for length in accordance with in-house method CAL 002 over the following range : 50 mm to 1000 mm	 0.6 mm
- External micrometer	Calibration for length in accordance with in-house method CAL 006 over the following range : 2 mm to 25 mm	 2 μm
- Measuring tape	Calibration for length in accordance with in-house method CAL 005 over the following range : 1 m to 100 m	 [Int(L/5)+1]*0.0012 where L is the length in m and in the range of 1 to 100 m Int is the integer function which discards the fractional part of a number
- Measuring tape with sensing head	Calibration for length in accordance with in-house method CAL 057 over the following range : 1 m to 100 m	 [Int(L/5)+1]*0.003 where L is the length in m and in the range of 1 to 100 m Int is the integer function which discards the fractional part of a number

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

AA Lab Limited

Flat I, 5/F, Fu Cheung Centre, 5-7 Wong Chuk Yeung Street, Fotan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 5-7 號富昌中心 5 樓 I 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Temperature measurements # (see note below)		
- Dial thermometer	Calibration for temperature in accordance with in-house method CAL025 over the following range :	
	0 ℃ to 200 ℃	1.0 K
- Digital thermometer	Calibration for temperature in accordance with in-house method CAL025 over the following range :	
	-20 ℃ to 200 ℃	0.3 K
- Liquid-in-glass thermometer	Calibration for temperature in accordance with in-house method CAL025 over the following range :	
	0 ℃ to 180 ℃	0.5 K

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

AA Lab Limited

Flat I, 5/F, Fu Cheung Centre, 5-7 Wong Chuk Yeung Street, Fotan, Shatin, New Territories, Hong Kong
香港新界沙田火炭黃竹洋街 5-7 號富昌中心 5 樓 I 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Road surfaces	Slip resistance of pedestrian surface using a pendulum tester	BS 7976-2: 2002 + A1: 2013
	Slip resistance of pedestrian surface using Shod Ramp test	CEN/TS 16165: 2016 Annex B DIN 51130: 2014-02 excluding Cl. 6

Lee's Pharm Genomics Lab Limited
李氏大藥廠基因實驗室有限公司

ADDRESS 地址	:	Unit 316, 3/F, Biotech Centre 2, Phase 2, Hong Kong Science Park, Shatin, New Territories, Hong Kong 香港新界沙田香港科學園第二期生物科技中心二座3樓316室
ENQUIRY 查詢	:	Ms LI Yee-wing, Laboratory Director 李宜穎女士，實驗中心總監
TELEPHONE 電話	:	2210 7029
FAX 傳真	:	2210 7089
E-MAIL 電郵	:	wing.li@leespharm.com
WEBSITE ADDRESS 網址		www.leespharm.com
CLIENTELE 服務對象	:	In-house laboratory, normally not available for public testing 內部實驗所，通常只提供內部服務

Contact details last updated on: 15 August 2022

Lee's Pharm Genomics Lab Limited
李氏大藥廠基因實驗室有限公司

ADDRESS **地址**	:	Unit 316, 3/F, Biotech Centre 2, Phase 2, Hong Kong Science Park, Shatin, New Territories, Hong Kong 香港新界沙田香港科學園第二期生物科技中心二座 3 樓 316 室
ACCREDITED TEST CATEGORY **認可測試類別**	:	Pharmaceutical Products 藥物

Lee's Pharm Genomics Lab Limited
李氏大藥廠基因實驗室有限公司

Unit 316, 3/F, Biotech Centre 2, Phase 2, Hong Kong Science Park, Shatin, New Territories, Hong Kong
香港新界沙田香港科學園第二期生物科技中心二座 3 樓 316 室

Pharmaceutical Products 藥物		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Tissue slides from subjects of clinical trials of drugs	Immunohistochemistry staining:- ALK (D5F3) Assay PD-L1 (SP142) Assay PD-L1 (SP263) Assay	Automated method as documented in LP-008-0006 (by BenchMark GX)

Alliance Testing (HK) Co., Limited

ADDRESS 地址	:	Unit 135, 1/F, My Loft, No. 9 Hoi Wing Road, Tuen Mun, New Territories, Hong Kong 香港新界屯門海榮路9號萬能閣1樓135室
ENQUIRY 查詢	:	Mr WONG Yik-man, Simon, General Manager 王益民先生，總經理
TELEPHONE 電話	:	3689 6677 / 6090 3382
FAX 傳真	:	-
E-MAIL 電郵	:	info@alliance-testing.com
Website Address 網址	:	www.alliance-testing.com
CLIENTELE 服務對象	:	Public 公眾

Alliance Testing (HK) Co., Limited

ADDRESS **地址**	:	Unit 135, 1/F, My Loft, No. 9 Hoi Wing Road, Tuen Mun, New Territories, Hong Kong 香港新界屯門海榮路 9 號萬能閣 1 樓 135 室
ACCREDITED TEST CATEGORY **認可測試類別**	:	Construction Materials 建築材料

Alliance Testing (HK) Co., Limited

Unit 135, 1/F, My Loft, No. 9 Hoi Wing Road, Tuen Mun, New Territories, Hong Kong
香港新界屯門海榮路 9 號萬能閣 1 樓 135 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Foundation	Compression static loading test on pile (SLT)	Buildings Department Code of Practice for Foundations (2017) Cl. 8.4 General Specification for Civil Engineering Works (2020) App. 8.1
	Crosshole sonic logging test (SOLT)	ASTM D6760-16
	Pile dynamic test (PDA)	ASTM D4945-17
	Pile Integrity Test (PIT)	ASTM D5882-16
	Plate load test (PLT)	BS 1377: Part 9: 1990 + Amd. No. 1 Cl. 4.1 (incremental loading) excluding Cl. 4.1.6.1 Buildings Department Code of Practice for Foundations (Apr 2017) Cl. 8.2(2) excluding 8.2(2)(f) to (h) Hong Kong Housing Authority Specification Library (2022) GIN.T190.9
	Ultrasonic echo sounder test (UEST)	Hong Kong Concrete Institute TM3 Issue 2 (2024)

Sky Professional Testing & Consulting Limited
天晉測試顧問有限公司

ADDRESS 地址	:	Flat/Rm A4, 18/F, Bonsun Industrial Building, 364-366 Sha Tsui Road, Tsuen Wan, New Territories, Hong Kong 香港新界荃灣沙咀道364-366號萬象工業大廈18樓A4室
ENQUIRY 查詢	:	Mr FONG Wai-ho, Assistant Technical Manager 方偉豪先生，助理技術經理
TELEPHONE 電話	:	3590 2513
FAX 傳真	:	3590 3867
E-MAIL 電郵	:	info@skyprotnc.com
Website Address 網址	:	-
CLIENTELE 服務對象	:	Public 公眾

Sky Professional Testing & Consulting Limited
天晉測試顧問有限公司

ADDRESS **地址**		Flat/Rm A4, 18/F, Bonsun Industrial Building, 364-366 Sha Tsui Road, Tsuen Wan, New Territories, Hong Kong 香港新界荃灣沙咀道364-366號萬象工業大廈18樓A4室
ACCREDITED TEST CATEGORY **認可測試類別**	:	Construction Materials 建築材料

Sky Professional Testing & Consulting Limited
天晉測試顧問有限公司

Flat/Rm A4, 18/F, Bonsun Industrial Building, 364-366 Sha Tsui Road, Tsuen Wan, New Territories, Hong Kong
香港新界荃灣沙咀道 364-366 號萬象工業大廈 18 樓 A4 室

Physical and Mechanical Testing 物理及機械測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Welds (non-destructive)	Magnetic particle test (Magnetic flow method, colour contrast method using permanent magnets and A.C. yokes)	BS 6072: 1981 (1986) BS EN 1290: 1998 + A2: 2003 BS EN ISO 9934-1: 2001 + A1: 2003 BS EN ISO 9934-1: 2016 BS EN ISO 17638: 2009 BS EN ISO 17638: 2016 in conjunction with the following specifications: BS 4515-1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 BS EN ISO 5817: 2023 Table 1 BS EN ISO 23278: 2015 Table 1 & Cl. 5 Buildings Department Code of Practice for Structural Use of Steel (2005) Table 14.3b Buildings Department Code of Practice for Structural Use of Steel (2011) Table 14.3b Hong Kong International Airport General Materials & Workmanship Specification (GMWS) Issue No. 5a (2019) Vol. 1 – Civil & Structural Works Section 22.6.22
	Ultrasonic test (Butt welds in plates and pipes, 'T' joint welds, nozzle welds and node welds)	BS 3923: Part 1: 1986 (Level 1, 2A, 2B & 3) BS EN 1714: 1998 + A1: 2002 (Level A & B) BS EN ISO 17640: 2010 (Level A & B) BS EN ISO 17640: 2018 (Level A & B) in conjunction with the following specifications: BS 4515-1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 BS EN ISO 5817: 2023 Table 1 BS EN ISO 11666: 2018 Cl. 6 & Annex A Buildings Department Code of Practice for Structural Use of Steel (2005) Table 14.3b Buildings Department Code of Practice for Structural Use of Steel (2011) Table 14.3b Hong Kong International Airport General Materials & Workmanship Specification (GMWS) Issue No. 5a (2019) Vol. 1 – Civil & Structural Works Section 22.6.22

Sky Professional Testing & Consulting Limited
天晉測試顧問有限公司

Flat/Rm A4, 18/F, Bonsun Industrial Building, 364-366 Sha Tsui Road, Tsuen Wan, New Territories, Hong Kong
香港新界荃灣沙咀道 364-366 號萬象工業大廈 18 樓 A4 室

Physical and Mechanical Testing 物理及機械測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Welds (non-destructive) (cont'd)	Visual examination	BS 5289: 1976 BS EN 970: 1997 BS EN ISO 17637: 2011 BS EN ISO 17637: 2016 in conjunction with the following specifications: BS 4515-1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 BS EN ISO 5817: 2023 Table 1 BS EN ISO 14555: 2017 Cl. 12.2 Buildings Department Code of Practice for Structural Use of Steel (2005) Table 14.3b Buildings Department Code of Practice for Structural Use of Steel (2011) Table 14.3b Hong Kong International Airport General Materials & Workmanship Specification (GMWS) Issue No. 5a (2019) Vol. 1 – Civil & Structural Works Section 22.6.22
	Visual examination and bend test on stud connectors	<Visual examination as follows:> BS 5289: 1976 BS EN 970: 1997 BS EN ISO 17637: 2011 BS EN ISO 17637: 2016 <together with the following bend test method(s):> BS 5400-6: 1999 Cl. 5.5.4(b) Buildings Department Code of Practice for the Structural Use of Steel (2011) Cl. 14.3.7.3

Professional Testing Consultant Limited
專業檢驗顧問有限公司

ADDRESS 地址	:	Workshop 1, 15/F, International Enterprise Centre II, 73 Chai Wan Kok Street, Tsuen Wan, New Territories, Hong Kong 香港新界荃灣柴灣角街 73 號國際企業中心二期 15 樓 1 室
ENQUIRY 查詢	:	Mr CHAN Ka-lok, Technical Manager 陳家樂先生，技術經理
TELEPHONE 電話	:	2320 5001
FAX 傳真	:	2385 3182
E-MAIL 電郵	:	general@ptcl.hk
Website Address 網址	:	-
CLIENTELE 服務對象	:	Public 公眾

Professional Testing Consultant Limited
專業檢驗顧問有限公司

ADDRESS **地址**		Workshop 1, 15/F, International Enterprise Centre II, 73 Chai Wan Kok Street, Tsuen Wan, New Territories, Hong Kong 香港新界荃灣柴灣角街73號國際企業中心二期15樓1室
ACCREDITED TEST CATEGORY **認可測試類別**	:	Construction Materials 建築材料

Professional Testing Consultant Limited
專業檢驗顧問有限公司
Workshop 1, 15/F, International Enterprise Centre II, 73 Chai Wan Kok Street, Tsuen Wan, New Territories, Hong Kong
香港新界荃灣柴灣角街 73 號國際企業中心二期 15 樓 1 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Concrete (diagnostic)	Surface hardness measurement	BS 1881: Part 202: 1986 BS EN 12504-2: 2021
Metallic materials (non-destructive)	Ultrasonic thickness measurement	BS EN 14127: 2011
Structural fixings	Tensile proof load test of anchors, dowel bars, and channel inserts by incremental loading in the force range 1 kN to 400 kN	BS 5080: Part 1: 1993 Cl. 6, 7.1.1 & 7.1.3 with modification
	Tensile proof load test of drilled-in anchors used for cantilevered structure/hanger/curtain wall remedial works by incremental loading in the force range 1 kN to 400 kN	Buildings Department PNAP APP-169 (Oct 2023) App. A
	Tensile proof load test of drilled-in anchors used for works other than cantilevered structure/ hanger/curtain wall remedial works in the force range 1 kN to 400 kN	Buildings Department PNAP APP-169 (Oct 2023) App. B
	Tensile proof test of cementitious or polymer based grouted bolts or dowels or reinforcing bars works or/and steel T-bolts with cast-in channels in the force range 1 kN to 400 kN	Buildings Department PNAP APP-169 (Oct 2023) App. C
Welds (non-destructive)	Magnetic particle test (Magnetic flow method, colour contrast technique using permanent magnets, A.C. yokes)	BS 6072: 1981 (1986) BS EN 1290: 1998 BS EN ISO 9934-1: 2015 BS EN ISO 9934-1: 2016 BS EN ISO 17638: 2009 BS EN ISO 17638: 2016 in conjunction with the following specification(s): BS 4515-1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 EN ISO 5817: 2007 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b

Professional Testing Consultant Limited
專業檢驗顧問有限公司
Workshop 1, 15/F, International Enterprise Centre II, 73 Chai Wan Kok Street, Tsuen Wan, New Territories, Hong Kong
香港新界荃灣柴灣角街 73 號國際企業中心二期 15 樓 1 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Welds (non-destructive) (cont'd)	Liquid penetrant test (colour contrast method)	BS 6443: 1984 BS EN 571-1: 1997 BS EN ISO 3452-1: 2013 in conjunction with the following specification(s): BS 4515-1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 EN ISO 5817: 2007 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b
	Ultrasonic test (butt welds in plates and pipes, 'T'- joint welds and nozzle welds)	BS 3923: Part 1: 1986 (Level 1, 2a, 2b & 3) BS EN 1714: 1998 (Level A, B, & C) BS EN ISO 17640: 2010 (Level A, B, & C) BS EN ISO 17640: 2018 (Level A, B, & C) in conjunction with the following specification(s): BS 4515-1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 EN ISO 5817: 2007 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b
	Visual examination	BS 5289: 1976 BS EN 970: 1997 BS EN ISO 17637: 2011 BS EN ISO 17637: 2016 in conjunction with the following specification(s): BS 4515-1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 EN ISO 5817: 2007 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b
	Visual examination and bend test on stud connectors	<Visual examination as follows:> BS 5289: 1976 BS EN 970: 1997 BS EN ISO 17637: 2011 BS EN ISO 17637: 2016 <together with the following bend test method(s):> BS 5400-6: 1999 Cl. 5.5.4(b) BS EN ISO 14555: 2017 Cl. 11.2, 11.3 (excluding Torque wrench method), 12.2 & 12.3 Buildings Department Code of Practice for the Structural Use of Steel (2011) Cl. 14.3.7.3

Agriculture, Fisheries and Conservation Department – Veterinary Laboratory Division – Tai Lung Veterinary Laboratory
漁農自然護理署–獸醫化驗科–大龍獸醫化驗所

ADDRESS 地址	:	Lin Tong Mei, Fan Kam Road, Sheung Shui, New Territories, Hong Kong 香港新界上水粉錦公路蓮塘尾
ENQUIRY 查詢	:	Mrs LUNG LAI Sau-ying, Aries, Veterinary Technologist 龍黎秀英女士，獸醫化驗師
TELEPHONE 電話	:	24618791
FAX 傳真	:	24618421
E-MAIL 電郵	:	tl_vetlab@afcd.gov.hk
WEBSITE ADDRESS 網址	:	www.afcd.gov.hk/english/quarantine/qua_vetlab/qua_vetlab.html
CLIENTELE 服務對象	:	Government departments, public utilities and private veterinary clinics 政府部門，公營機構及私營獸醫診所

Agriculture, Fisheries and Conservation Department – Veterinary Laboratory Division – Tai Lung Veterinary Laboratory
漁農自然護理署–獸醫化驗科–大龍獸醫化驗所

ADDRESS : Lin Tong Mei, Fan Kam Road, Sheung Shui, New Territories, Hong Kong
地址 香港新界上水粉錦公路蓮塘尾

ACCREDITED TEST CATEGORY : Veterinary Testing
獸醫化驗
認可測試類別

Agriculture, Fisheries and Conservation Department – Veterinary Laboratory Division – Tai Lung Veterinary Laboratory
漁農自然護理署–獸醫化驗科–大龍獸醫化驗所
Lin Tong Mei, Fan Kam Road, Sheung Shui, New Territories, Hong Kong
香港新界上水粉錦公路蓮塘尾

Veterinary Testing 獸醫化驗		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Anatomical Pathology:-	
Animal tissue	Histological examinations by H&E stains	Specimen preparation: Method documented in HIW-1, HIW-2, HIW-3, HIW-4, HIW-16 Staining: Method documented in HIM-18 and HIM19
Animal tissue	Histological examinations by special stains	Specimen preparation: Method documented in HIW-1, HIW-2, HIW-3, HIW-4, HIW-16 Staining: Methods documented as below Congo Red staining for amyloid (HIM-12) Giemsa staining for fungi and bacteria (HIM-1) Grocott Hexamine-Silver (GMS) staining for fungi (HIM-2) Von Kossa staining for calcium (HIM-8) Warthin Starry staining for Spirochaetes (HIM-4) Toluidine Blue staining for mast cell granules (HIM-5) Perl's Prussian Blue staining for ferric iron (HIM-3) Gram staining for bacteria (HIM-11) Periodic Acid-Schiff staining for fungi, parasites and bacteria (HIM-7) Martius Yellow-Brilliant Crystal Scarlet-Soluble Blue (MSB) staining for red cells; collagen and fibrin (HIM-24) Verhoeff staining for collagen and elastin (HIM-23) Ziehl Neelsen (ZN) staining for mycobacteria (HIM-6) Masson Trichrome staining for collagen and muscle and fibrin (HIM-30)
Fresh animal tissue	Frozen section by H&E stain and Sudan Black stain	Specimen preparation: Method documented in HIW-6 Staining: Method documented as below H&E (HIM-18 and HIM19) Sudan Black staining for fat (HIM-13)

Agriculture, Fisheries and Conservation Department – Veterinary Laboratory Division – Tai Lung Veterinary Laboratory
漁農自然護理署–獸醫化驗科–大龍獸醫化驗所
Lin Tong Mei, Fan Kam Road, Sheung Shui, New Territories, Hong Kong
香港新界上水粉錦公路蓮塘尾

Veterinary Testing 獸醫化驗		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Anatomical Pathology:-	
Animal tissue	Immunohistochemical examination for	
	- Newcastle Disease virus	Method documented in HIM-25
	- Porcine Circovirus Type 2	Method documented in HIM-26
	- Porcine reproductive and respiratory syndrome virus	Method documented in HIM-27
	- Avian Influenza A and H5 virus	Method documented in HIM-28 & HIM-21
	- Pseudorabies virus	Method documented in HIM-29
Animal carcass or part thereof	Necropsy services by anatomical pathology examinations for	
	- Mammalian	Method documented in PAP-2
	- Avian	Method documented in PAP-3
	- Exotic animal	Method documented in PAP-4
	- Crustacean, Mollusc/Amphibian, Fish	Method documented in FPP-9

Abidance Testconsult Limited
守一測試顧問有限公司

ADDRESS 地址	:	Workshop S, 6/F, International Industrial Centre, 2-8 Kwei Tei Street, Fo Tan, Shatin, New Territories, Hong Kong 香港新界沙田火炭桂地街 2-8 號國際工業中心 6 樓 S 室
ENQUIRY 查詢	:	Mr WONG Ching-yee, Timothy, Laboratory Manager 黃政義先生，實驗室經理
TELEPHONE 電話	:	2153 1102
FAX 傳真	:	2153 1863
E-MAIL 電郵	:	abidancetc@gmail.com
Website Address 網址	:	www.abidance.com.hk
CLIENTELE 服務對象	:	Public 公眾

Abidance Testconsult Limited
守一測試顧問有限公司

ADDRESS **地址**		Workshop S, 6/F, International Industrial Centre, 2-8 Kwei Tei Street, Fo Tan, Shatin, New Territories, Hong Kong 香港新界沙田火炭桂地街 2-8 號國際工業中心 6 樓 S 室
ACCREDITED TEST CATEGORY **認可測試類別**	:	Construction Materials 建築材料

Abidance Testconsult Limited
守一測試顧問有限公司
Workshop S, 6/F, International Industrial Centre, 2-8 Kwei Tei Street, Fo Tan, Shatin, New Territories, Hong Kong
香港新界沙田火炭桂地街 2-8 號國際工業中心 6 樓 S 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Concrete	Removal of concrete cover to expose reinforcement	Hong Kong Housing Authority Materials Testing Services (2018/2020) for Maintenance & Building Materials Specification Part D Cl. 4.2.1 Hong Kong Housing Authority Materials Testing Services (2020/2022) for Maintenance & Building Materials Specification Part D Cl. 4.2.1
Concrete (diagnostic)	Carbonation test	BS EN 14630: 2006
	Covermeter survey	BS 1881: Part 204: 1988
	Surface hardness measurement	BS EN 12504-2: 2012 BS EN 12504-2: 2021

High Precision Chemical Testing Limited
高精確檢測有限公司

ADDRESS 地址	:	Rm 1904, Technology Park, 18 On Lai Street, Shatin, NT 新界沙田安麗街 18 號達利廣場 1904 室
ENQUIRY 查詢	:	Dr CHAN Hon-fai BBS, Laboratory Director 陳漢輝，實驗室總監
TELEPHONE 電話	:	3841 4388
FAX 傳真	:	-
E-MAIL 電郵	:	info@hpct.com.hk
WEBSITE ADDRESS 網址	:	www.hpct.com.hk
CLIENTELE 服務對象	:	Public 公眾

High Precision Chemical Testing Limited
高精確檢測有限公司

ADDRESS **地址**	:	Rm 1904, Technology Park, 18 On Lai Street, Shatin, NT 新界沙田安麗街 18 號達利廣場 1904 室
ACCREDITED TEST CATEGORY **認可測試類別**	:	Environmental Testing 環境測試

High Precision Chemical Testing Limited
高精確檢測有限公司
Rm 1904, Technology Park, 18 On Lai Street, Shatin, NT
新界沙田安麗街 18 號達利廣場 1904 室

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Water and wastewater	Physical Examination:-	
	- Total Suspended Solids dried at 103 - 105℃	APHA 23e 2540 D
	- pH value	APHA 23e 4500-H^+ B
	- Dissolved oxygen	APHA 23e 4500-O H
	Organic Pollutants	
	- Chemical oxygen demand (close reflux)	APHA 23e 5220 D
	- Biochemical oxygen demand (5 days)	APHA 23e 5210 B
	Non-metallic Constituents:-	
	- Nitrogen (Ammonia)	In-house Method SOP018 (FIA)
	- Nitrogen (Nitrite)	In-house Method SOP019 (FIA)
	- Nitrogen (Nitrate)	In-house Method SOP019 (Calculation)
	Trace Metals:-	
	- Arsenic (As) - Cadmium (Cd) - Mercury (Hg) - Chromium (Cr) - Manganese (Mn) - Nickel (Ni) - Copper (Cu) - Silver (Ag) - Lead (Pb) - Cobalt (Co) - Molybdenum (Mo) - Tin (Sn) - Antimony (Sb) - Iron (Fe) - Zinc (Zn)	In-house Method SOP020 (ICP-MS)

High Precision Chemical Testing Limited
高精確檢測有限公司
Rm 1904, Technology Park, 18 On Lai Street, Shatin, NT
新界沙田安麗街 18 號達利廣場 1904 室

Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Saline water	Physical Examination:-	
	- Total Suspended Solids dried at 103 - 105℃	APHA 23e 2540 D
	- pH value	APHA 23e 4500-H^+ B
	-	
	-	

Technology Solution Testing Limited
高科檢測有限公司

ADDRESS 地址	:	Room 407, 4/F, Yale Industrial Centre, 61-63 Au Pui Wan Street, Shatin, New Territories, Hong Kong 香港新界沙田坳背灣街61-63號盈力工業中心4樓407室
ENQUIRY 查詢	:	Mr LIU Ka-chun, Quality Manager 廖家俊先生，質量經理
TELEPHONE 電話	:	2367 8660
FAX 傳真	:	-
E-MAIL 電郵	:	charlie.liu@tstlhk.com
Website Address 網址	:	www.technologysolutiontesting.com
CLIENTELE 服務對象	:	Public 公眾

Technology Solution Testing Limited
高科檢測有限公司

ADDRESS **地址**		Room 407, 4/F, Yale Industrial Centre, 61-63 Au Pui Wan Street, Shatin, New Territories, Hong Kong 香港新界沙田坳背灣街 61-63 號盈力工業中心 4 樓 407 室
ACCREDITED TEST CATEGORY **認可測試類別**	:	Construction Materials 建築材料

Technology Solution Testing Limited
高科檢測有限公司
Room 407, 4/F, Yale Industrial Centre, 61-63 Au Pui Wan Street, Shatin, New Territories, Hong Kong
香港新界沙田坳背灣街 61-63 號盈力工業中心 4 樓 407 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Adhesive	Pull-off test of repair mortar	Hong Kong Housing Authority Materials Testing Services (2017/2018) for Maintenance and Building Materials Specification Part D Cl. 2.1.15 Method 1 Hong Kong Housing Authority Materials Testing Services (2017/2018) for Maintenance and Building Materials Specification Part D Cl. 2.1.15 Method 1 with modifications
	Pull-off test of tiles	Hong Kong Housing Authority Materials Testing Services (2017/2018) for Maintenance and Building Materials Specification Part D Cl. 7.11 with modifications
	Pull-off test of adhesive	ASTM D4541-17 Test Method E BS EN ISO 4624: 2003, BS 3900-E10: 2003 Cl. 9.4.2 & 9.5
Coating	Dry-film coating thickness	BS 3900-C5: 2007 Method 7C (Magnetic induction) BS 3900-C5: 2007 Method 7D (Eddy current)
	Dry-film coating thickness	ASTM D4138-94 (Method A - Wedge cut)
Concrete	Removal of concrete cover to expose reinforcement	Hong Kong Housing Authority Materials Testing Services (2018/2020) for Maintenance & Building Materials Specification Part D Cl. 4.2.1
Concrete (diagnostic)	Carbonation test	BS EN 14630: 2006
	Covermeter survey	BS 1881: Part 204: 1988
	Half-cell potential measurement	ASTM C876-09 (Method A & B for pre-wetting)
	Infrared thermography for detection of building surface defects	Hong Kong Concrete Institute TM1 Issue 2 (2022)
	Resistivity measurement	BS 1881: Part 201: 1986 Cl. 2.3
	Surface hardness measurement	BS 1881: Part 202: 1986 Cl. 6 BS EN 12504-2: 2012

Technology Solution Testing Limited
高科檢測有限公司
Room 407, 4/F, Yale Industrial Centre, 61-63 Au Pui Wan Street, Shatin, New Territories, Hong Kong
香港新界沙田坳背灣街 61-63 號盈力工業中心 4 樓 407 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Structural fixings	Tensile proof load test of anchors and dowel bars by incremental loading in the force range 2 kN to 400 kN	BS 5080: Part 1: 1993 Cl. 6, 7.1.1 & 7.1.3 with modifications
	Tensile proof load test of drilled-in anchors used for cantilevered structure/hanger/curtain wall remedial works by incremental loading in the force range 3 kN – 400 kN	Buildings Department PNAP APP-169 (Oct 2023) App. A
	Tensile proof load test of drilled-in anchors used for works other than cantilevered structure/ hanger/curtain wall remedial works in the force range 3 kN – 400 kN	Buildings Department PNAP APP-169 (Oct 2023) App. B
	Tensile proof load test of cementitious or polymer based grouted bolts or dowels or reinforcing bars works in the force range 3 kN – 400 kN	Buildings Department PNAP APP-169 (Oct 2023) App. C
	Shear proof load test of anchors and dowel bars by incremental loading in the force range 2 kN to 400 kN	BS 5080: Part 2: 1986 + Amd. 7602 Cl. 4, 7.1, 7.2.1 & 7.2.3 with modifications
	Shear proof load test of drilled-in anchors used for cantilevered structure/hanger/curtain wall remedial works by incremental loading in the force range 3 kN – 400 kN	Buildings Department PNAP APP-169 (Oct 2023) App. A
	Shear proof load test of drilled-in anchors used for works other than cantilevered structure/ hanger/curtain wall remedial works in the force range 3 kN – 400 kN	Buildings Department PNAP APP-169 (Oct 2023) App. B
	Shear proof load test of cementitious or polymer based grouted bolts or dowels or reinforcing bars works in the force range 3 kN – 400 kN	Buildings Department PNAP APP-169 (Oct 2023) App. C

Technology Solution Testing Limited
高科檢測有限公司
Room 407, 4/F, Yale Industrial Centre, 61-63 Au Pui Wan Street, Shatin, New Territories, Hong Kong
香港新界沙田坳背灣街 61-63 號盈力工業中心 4 樓 407 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Welds (non-destructive)	Liquid penetrant test (Colour contrast method)	BS EN 571-1: 1997 BS EN ISO 3452-1: 2013 in conjunction with the following specification(s): BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b
	Magnetic particle test (Magnetic flow method, colour contrast method using permanent magnets and A.C. yokes)	BS EN 1290: 1998 BS EN ISO 17638: 2016 in conjunction with the following specifications: BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b
	Ultrasonic test (Butt welds in plates and pipes, 'T' joint welds)	BS EN 1714: 1998 + Amd. 10286, 13990 & 14941 (Level A, B, & C) BS EN ISO 17640: 2018 (Level A, B, & C) in conjunction with the following specification(s): BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b
	Visual examination	BS EN 970: 1997 BS EN ISO 17637: 2016 in conjunction with the following specifications: BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b

LabTech Testing Limited
力達檢測有限公司

ADDRESS 地址	:	Block A & B, 8/F, Hong Kong Spinners Industrial Building Phase VI, 481-483 Castle Peak Road, Cheung Sha Wan, Kowloon, Hong Kong 香港九龍長沙灣青山道481-483號香港紗廠工業大厦六期八樓A及B室
ENQUIRY 查詢	:	Mr LAM Hoi Fan, Laboratory Manager 林凱帆先生，實驗室經理
TELEPHONE 電話	:	2371 0008
FAX 傳真	:	2744 1037
E-MAIL 電郵	:	info@lab-tech.com.hk
Website Address 網址	:	-
CLIENTELE 服務對象	:	Public 公眾

LabTech Testing Limited
力達檢測有限公司

ADDRESS **地址**		Block A & B, 8/F, Hong Kong Spinners Industrial Building Phase VI, 481-483 Castle Peak Road, Cheung Sha Wan, Kowloon, Hong Kong 香港九龍長沙灣青山道481-483號香港紗廠工業大廈六期八樓A及B室
ACCREDITED TEST CATEGORY **認可測試類別**	:	Construction Materials 建築材料

LabTech Testing Limited
力達檢測有限公司
Block A & B, 8/F, Hong Kong Spinners Industrial Building Phase VI, 481-483 Castle Peak Road, Cheung Sha Wan, Kowloon, Hong Kong
香港九龍長沙灣青山道 481-483 號香港紗廠工業大廈六期八樓 A 及 B 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Foundation	Ultrasonic echo sounder test (UEST)	Hong Kong Concrete Institute TM3 Issue 2 (2024)

Gilson China Limited - Gilson Hong Kong Laboratory

ADDRESS 地址	:	Unit Nos. 1 & 2, 20/F., Remington Center, 23 Hung To Road, Kwun Tong, Kowloon, Hong Kong 香港九龍觀塘鴻圖道23號利登中心20樓2001-02室
ENQUIRY 查詢	:	Mr Nicholas TSANG Pak Hung, Laboratory Manager 曾柏雄先生，實驗室經理
TELEPHONE 電話	:	2110 5726
FAX 傳真	:	2111 4065
E-MAIL 電郵	:	ntsang@gilson.com
Website Address 網址	:	www.gilsonhk.com
CLIENTELE 服務對象	:	Public 公眾

Gilson China Limited - Gilson Hong Kong Laboratory

ADDRESS **地址**	:	Unit Nos. 1 & 2, 20/F., Remington Center, 23 Hung To Road, Kwun Tong, Kowloon, Hong Kong 香港九龍觀塘鴻圖道 23 號利登中心 20 樓 2001-02 室
ACCREDITED TEST CATEGORY **認可測試類別**	:	Calibration Services 校正服務

Gilson China Limited - Gilson Hong Kong Laboratory

Unit Nos. 1 & 2, 20/F., Remington Center, 23 Hung To Road, Kwun Tong, Kowloon, Hong Kong
香港九龍觀塘鴻圖道 23 號利登中心 20 樓 2001-02 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related quantities		
- Volume		
- Single channel piston-operated pipette (Type A only)	Calibration for delivered volume in accordance with ISO 8655-6: 2022 and verification for maximum permissible systematic error and random error as specified in ISO 8655-2: 2022	
	over the following ranges:	
	1 µL	0.09 µL
	above 1 µl to 10 µL	0.12 µL
	above 10 µL to 50 µL	0.5 µL
	above 50 µL to 100 µL	1.5 µL
	above 100 µL to 200 µL	4.0 µL
	above 200 µL to 1000 µL	7.4 µL
	above 1000 µL to 10000 µL	90 µL
	Calibration for delivered volume in accordance with ISO 8655-6: 2002 and verification for maximum permissible systematic error and random error as specified in ISO 8655-2: 2002	
	over the following ranges:	
	1 µL	0.09 µL
	above 1 µl to 10 µL	0.12 µL
	above 10 µL to 50 µL	0.5 µL
	above 50 µL to 100 µL	1.5 µL
	above 100 µL to 200 µL	4.0 µL
	above 200 µL to 1000 µL	7.4 µL

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Gilson China Limited - Gilson Hong Kong Laboratory

Unit Nos. 1 & 2, 20/F., Remington Center, 23 Hung To Road, Kwun Tong, Kowloon, Hong Kong
香港九龍觀塘鴻圖道 23 號利登中心 20 樓 2001-02 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities		
- Volume		
- Multi-channel piston-operated pipette (Type A only)	Calibration for delivered volume in accordance with ISO 8655-6: 2022 and verification for maximum permissible systematic error and random error as specified in ISO 8655-2: 2022	
	over the following ranges:	
	1 µL	0.09 µL
	above 1 µl to 10 µL	0.12 µL
	above 10 µL to 50 µL	0.5 µL
	above 50 µL to 100 µL	1.5 µL
	above 100 µL to 200 µL	4.0 µL
	above 200 µL to 300 µL	7.4 µL

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Labon Testing Limited
立邦驗測有限公司

ADDRESS 地址	:	Flat/Room 1218, Block A, 12/F, Profit Industrial Building, 1-15 Kwai Fung Crescent, Kwai Chung, New Territories, Hong Kong 香港新界葵涌葵豐街1-15號盈業大廈A座12樓18室
ENQUIRY 查詢	:	Ms Gigi SO Wai-chi, Laboratory Helper 蘇慧芝小姐，實驗室助手
TELEPHONE 電話	:	2436 2277
FAX 傳真	:	2436 3330
E-MAIL 電郵	:	-
Website Address 網址	:	-
CLIENTELE 服務對象	:	Public 公眾

Labon Testing Limited
立邦驗測有限公司

ADDRESS
地址

Flat/Room 1218, Block A, 12/F, Profit Industrial Building,
1-15 Kwai Fung Crescent, Kwai Chung, New Territories, Hong Kong
香港新界葵涌葵豐街1-15號盈業大廈A座12樓18室

ACCREDITED TEST CATEGORY
認可測試類別

: Construction Materials
建築材料

Labon Testing Limited
立邦驗測有限公司
Flat/Room 1218, Block A, 12/F, Profit Industrial Building, 1-15 Kwai Fung Crescent, Kwai Chung, New Territories, Hong Kong
香港新界葵涌葵豐街 1-15 號盈業大廈 A 座 12 樓 18 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Concrete (diagnostic)	Carbonation test	BS EN 14630: 2006
	Surface hardness measurement	BS 1881: Part 202: 1986 Cl. 6
Paint & varnish	Pull off test of adhesion	BS EN ISO 4624: 2016 Cl. 8.4.2

Water Supplies Department – Material Testing Laboratory
水務署物料測試所

ADDRESS : M&E Workshop Block 2, G/F, 300 Lung Cheung Road, Kowloon, Hong Kong.
地址 香港九龍龍翔道300號水務署機械及電機工場第二座地下

ENQUIRY : Miss IP Wing Shuen Maggie, Mechanical Engineer/Material Testing Laboratory
查詢 葉咏旋女仕，機械工程師/物料測試

TELEPHONE : 3583 4117
電話

FAX : 3578 6435
傳真

E-MAIL : maggie_ws_ip @wsd.gov.hk
電郵

CLIENTELE : In-house laboratory, normally not available for public testing
服務對象 內部實驗所，通常只提供內部服務

Water Supplies Department – Material Testing Laboratory
水務署物料測試所

ADDRESS **地址**	:	M&E Workshop Block 2, G/F, 300 Lung Cheung Road, Kowloon, Hong Kong. 香港九龍龍翔道 300 號水務署機械及電機工場第二座地下
ACCREDITED TEST CATEGORY **認可測試類別**	:	Physical and Mechanical Testing 物理及機械測試

Water Supplies Department – Material Testing Laboratory
水務署物料測試所
M&E Workshop Block 2, G/F, 300 Lung Cheung Road, Kowloon, Hong Kong.
香港九龍龍翔道 300 號水務署機械及電機工場第二座地下

Physical and Mechanical Testing 物理及機械測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Pipe, tubing and associated fitting	Physical tests	
- Copper pipe (nominal diameter: 15 mm to 66.7 mm)	- Hydrostatic test	BS EN 1057-2006 + A1: 2010 Cl. 7.4, 10.9 and C.2
- Stainless steel pipe (nominal diameter: 15 mm to 66.7 mm)	- Hydrostatic test	BS EN 10312: 2002 Cl. 8.5.2 and 11.4.3
- Copper fitting with ends for capillary soldering or capillary brazing to copper pipe (nominal diameter: 15 mm to 66.7 mm)	- Leak-tightness test under internal hydrostatic pressure	BS EN 1254-1: 1998 Cl. 4.6.1 and 5.2
- Copper fitting with compression ends for use with copper pipe (nominal diameter: 15 mm to 66.7 mm)	- Leak-tightness test under internal hydrostatic pressure	BS EN 1254-2: 1998 Cl. 4.6.1 and 5.4
- Copper alloy and stainless steel ball valve (nominal diameter: 15 mm to 66.7 mm)	- Leak-tightness test - Hydraulic strength	BS EN 13828: 2003 Cl. 6.3 and 7.4.1 ***<Excluding the following>*** Cl. 7.4.1.3 (Test 2) Cl. 6.3 and 7.4.2
- Copper alloy and stainless steel gate valve, globe valve and check valve (nominal diameter: 15 mm to 66.7 mm)	- Shell tightness test - Seat tightness test	BS EN 12266-1: 2012 Cl. 4b) and A.3 Cl. 4c) and A.4 ***<Excluding the following>*** Cl. A.4.2.1 (Determination of leakage rate)
- Copper alloy and stainless steel strainer and expansion joint (nominal diameter: 15 mm to 66.7 mm)	- Shell tightness test - Seat tightness test	In-house method MV-BS12266-1.02 Cl. 7 Cl. 8

ESG Matters Limited – Acoustic Calibration Centre
益思智綠色金融科技有限公司－聲學校正實驗所

ADDRESS 地址	:	Unit 1813, 1815-16, 18/F, Tower A, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong 香港新界葵涌和宜合道63號麗晶中心A座18樓1813，1815-16室
ENQUIRY 查詢	:	Mr CHOI Pui-sum, Technical Director 蔡培深先生，技術總監
TELEPHONE 電話	:	2525 8033
FAX 傳真	:	3007 8648
E-MAIL 電郵	:	email@esgmatters.asia
WEBSITE ADDRESS 網址	:	http://www.esgmatters.asia/
CLIENTELE 服務對象	:	Public 公眾

ESG Matters Limited – Acoustic Calibration Centre
益思智綠色金融科技有限公司 — 聲學校正實驗所

ADDRESS **地址**	:	Unit 1813, 1815-16, 18/F, Tower A, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong 香港新界葵涌和宜合道 63 號麗晶中心 A 座 18 樓 1813，1815-16 室
ACCREDITED TEST CATEGORY **認可測試類別**	:	Calibration Services 校正服務

ESG Matters Limited – Acoustic Calibration Centre
益思智綠色金融科技有限公司 — 聲學校正實驗所
Unit 1813,1815-16, 18/F, Tower A, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 A 座 18 樓 1813，1815-16 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Acoustic measurement		
- Sound calibrator	Calibration for the following parameters using insert voltage technique in accordance with IEC 60942: 2003 Annex B:	
	- Sound pressure level (1 kHz) at:	
	94 dB	0.13 dB
	114 dB	0.13 dB
	- Frequency accuracy over the following range: 1 kHz	0.2 Hz
	- Total distortion (1 kHz) at 94 dB over the following range: 0 % to 5 %	0.2 %
	- Total distortion (1 kHz) at 114 dB over the following range: 0 % to 5 %	0.2 %

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

ESG Matters Limited – Acoustic Calibration Centre
益思智綠色金融科技有限公司 — 聲學校正實驗所
Unit 1813, 1815-16, 18/F, Tower A, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌和宜合道 63 號麗晶中心 A 座 18 樓 1813，1815-16 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Acoustic measurement (cont'd)		
- Sound level meter	Calibration for the following parameters in accordance with IEC 61672-3: 2013 Cl. 11.2, 13, 14, 15, 16, 17, 18, 19, 20 and 21	
	- Self-generated noise with microphone replaced by the electrical input signal device	0.2 dB
	- Electrical signal tests of frequency weightings at the following frequencies:	
	63.1 Hz	0.2 dB
	125.9 Hz	0.2 dB
	251.2 Hz	0.2 dB
	501.2 Hz	0.2 dB
	1000 Hz	0.2 dB
	1995.3 Hz	0.2 dB
	3981.1 Hz	0.2 dB
	7943.3 Hz	0.2 dB
	15848.9 Hz	0.2 dB
	- Frequency and time weightings at 1 kHz	0.2 dB
	- Long-term Stability	0.2 dB
	- Level linearity on the reference level range	0.2 dB
	- Level linearity including the level range control	0.2 dB
	- Toneburst response	0.2 dB
	- C-weighted peak sound level	0.2 dB
	- Overload indication	0.2 dB
	- High-level stability	0.2 dB
- Real-time one third octave band analyzer	Calibration for the following parameters in accordance with IEC 61260: 1995 Cl. 4.4 and 5.3	
	- Relative attenuation in the pass-band	0.2 dB
	- Relative attenuation outside the pass-band	1.8 dB

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Department of Health - Regulatory Affairs, Chinese Medicine Regulatory Office, Government Chinese Medicines Testing Institute
衞生署 - 規管事務，中醫藥規管辦公室，政府中藥檢測中心

ADDRESS : 7/F, Biotech Centre 2, No. 11 Science Park West Avenue, Phase 2, Hong Kong Science Park, Shatin, New Territories, Hong Kong
地址 香港新界沙田香港科學園第 2 期科技大道西 11 號生物科技中心 2 座 7 樓

ENQUIRY : Dr. TSE Chun Wai, Chemist
查詢 謝晉偉博士，化驗師

TELEPHONE : 3188 3694
電話

FAX : 3586 0800
傳真

E-MAIL : c_rnd4@dh.gov.hk
電郵

CLIENTELE : In-house laboratory, normally not available for public testing
服務對象 內部實驗室，通常只提供內部服務

Department of Health - Regulatory Affairs, Chinese Medicine Regulatory Office, Government Chinese Medicines Testing Institute
衞生署 – 規管事務，中醫藥規管辦公室，政府中藥檢測中心

ADDRESS **地址**	7/F, Biotech Centre 2, No. 11 Science Park West Avenue, Phase 2, Hong Kong Science Park, Shatin, New Territories, Hong Kong 香港新界沙田香港科學園第2期科技大道西11號生物科技中心2座7樓

ACCREDITED TEST CATEGORY : Chinese Medicine 中藥
認可測試類別

Department of Health - Regulatory Affairs, Chinese Medicine Regulatory Office, Government Chinese Medicines Testing Institute
衞生署 – 規管事務，中醫藥規管辦公室，政府中藥檢測中心
7/F, Biotech Centre 2, No. 11 Science Park West Avenue, Phase 2, Hong Kong Science Park, Shatin, New Territories, Hong Kong
香港新界沙田香港科學園第 2 期科技大道西 11 號生物科技中心 2 座 7 樓

Chinese Medicine 中藥		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Chemical markers: -	
Proprietary Chinese medicine (Liniment - medicinal oil)	α-Pinene Eucalyptol Camphor Menthol Methyl Salicylate	In-house method RD-MTD-13 (GC-FID)
	Microscopic examination: -	
Carthami Flos (Powder) 紅花 (粉末)	- Microscopic identification 顯微鑒別	Hong Kong Chinese Materia Medica Standards Volume 6 香港中藥材標準第六冊
	Molecular authentication: -	
Chinese Materia Medica	Identification of the following species - *Panax notoginseng* (Burk.) F. H. Chen	In-house Method RD-MTD-31 (Polymerase Chain Reaction/ DNA Sequencing)

Honest Testing Services Limited
康力士測試服務有限公司

ADDRESS 地址	:	Flat/Rm 511, 5/F Sun Ling Plaza, 30 On Kui Street, Fanling, New Territories, Hong Kong 香港新界粉嶺安居街 30 號新寧中心 5 樓 511 室
ENQUIRY 查詢	:	Mr NG Man-yuen, Technical Manager 吳文遠先生，技術經理
TELEPHONE 電話	:	3971 0889, 6324 6585
FAX 傳真	:	-
E-MAIL 電郵	:	info@hts.com.hk
Website Address 網址	:	-
CLIENTELE 服務對象	:	Public 公眾

Contact details last updated on: 15 November 2022

Honest Testing Services Limited
康力士測試服務有限公司

ADDRESS **地址**	:	Flat/Rm 511, 5/F Sun Ling Plaza, 30 On Kui Street, Fanling, New Territories, Hong Kong 香港新界粉嶺安居街 30 號新寧中心 5 樓 511 室
ACCREDITED TEST CATEGORY **認可測試類別**	:	Construction Materials 建築材料

Honest Testing Services Limited
康力士測試服務有限公司

Flat/Rm 511, 5/F Sun Ling Plaza, 30 On Kui Street, Fanling, New Territories, Hong Kong
香港新界粉嶺安居街 30 號新寧中心 5 樓 511 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Foundation	Compression static loading test on pile (SLT)	Architectural Services Department General Specification for Building (2022) Section 5.29 Buildings Department Code of Practice for Foundations (2017) Cl. 8.4 General Specification for Civil Engineering Works (2006) Vol. 1 App. 8.1 General Specification for Civil Engineering Works (2020) Vol. 1 App. 8.1
	Tension static loading test on pile (SLT)	Architectural Services Department, Technical Instruction No. 04/2005: Particular Specification for Tension Piles Buildings Department Code of Practice for Foundations (2017) Cl. 8.10

Acurweight Technology Limited
標準衡器有限公司

ADDRESS 地址	:	Flat/Rm A, 6/F, Lung Shing Factory Building, 142-148 Texaco Road, Tsuen Wan, New Territories, Hong Kong 香港新界荃灣德士古道142-148號隆盛工廠大廈6樓A室
ENQUIRY 查詢	:	Mr WONG Yu-kai, Laboratory Manager 黃宇佳先生
TELEPHONE 電話	:	3709 9049
FAX 傳真	:	3709 2713
E-MAIL 電郵	:	kasper@acurweight.com
WEBSITE ADDRESS 網址	:	http://www.acurweight.com/
CLIENTELE 服務對象	:	Public 公眾

Acurweight Technology Limited
標準衡器有限公司

ADDRESS **地址**	:	Flat/Rm A, 6/F, Lung Shing Factory Building, 142-148 Texaco Road, Tsuen Wan, New Territories, Hong Kong 香港新界荃灣德士古道 142-148 號隆盛工廠大廈 6 樓 A 室
ACCREDITED TEST CATEGORY **認可測試類別**	:	Calibration Services 校正服務

Acurweight Technology Limited
標準衡器有限公司
Flat/Rm A, 6/F, Lung Shing Factory Building, 142-148 Texaco Road, Tsuen Wan, New Territories, Hong Kong
香港新界荃灣德士古道 142-148 號隆盛工廠大廈 6 樓 A 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED[@]** 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities		
- Mass		
- Electronic balance	Calibration for mass using following OIML Class standard weights (1) E2 weights from 1 mg to 2 kg, (2) F1 weights from 5 kg to 20 kg, (3) M1 weights from 5 kg to 20 kg, in accordance with in-house procedure WI-02 over the following ranges:	
	220 g to 620 g	0.22 mg to 1.10 mg
	above 620 g to 3000 g	1.1 mg to 9.2 mg
	above 3000 g to 5000 g	9.2 mg to 12.4 mg
	above 5 kg to 30 kg	12.4 mg to 0.7 g
	above 30 kg to 60 kg	0.7 g to 2.8 g
	above 60 kg to 200 kg	2.8 g to 10 g
	above 200 kg to 500 kg	10 g to 20 g
	On-site calibration for mass using following OIML Class standard weights (1) E2 weights from 1 mg to 2 kg, (2) F1 weights from 5 kg to 20 kg, (3) M1 weights from 5 kg to 20 kg, in accordance with in-house procedure WI-02 over the following ranges:	
	220 g to 620 g	0.22 mg to 1.10 mg
	above 620 g to 3000 g	1.1 mg to 9.2 mg
	above 3000 g to 5000 g	9.2 mg to 12.4 mg
	above 5 kg to 30 kg	12.4 mg to 0.7 g
	above 30 kg to 60 kg	0.7 g to 2.8 g
	above 60 kg to 200 kg	2.8 g to 10 g
	above 200 kg to 500 kg	10 g to 20 g
	above 500 kg to 1000 kg	20 g to 95 g

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Acurweight Technology Limited
標準衡器有限公司
Flat/Rm A, 6/F, Lung Shing Factory Building, 142-148 Texaco Road, Tsuen Wan, New Territories, Hong Kong
香港新界荃灣德士古道 142-148 號隆盛工廠大廈 6 樓 A 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED**[@] 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities (cont'd)		
- Mass		
- Weight (Standard values)	Calibration for mass in accordance with in-house procedure WI-01 using comparison method at the following specific nominal values :	
	20 g	0.12 mg
	50 g	0.12 mg
	100 g	0.12 mg
	200 g	0.15 mg
	500 g	1.00 mg
	1 kg	10 mg
	2 kg	10 mg
	5 kg	11 mg
	10 kg	110 mg
	20 kg	110 mg

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Sartorius Hong Kong Limited – Calibration Laboratory
賽多利斯香港有限公司 — 校正實驗室

ADDRESS 地址	:	Unit 1012, 10/F, Lu Plaza, 2 Wing Yip Street, Kwun Tong, Kowloon, Hong Kong 香港九龍觀塘榮業街 2 號振萬廣場 10 樓 1012 室
ENQUIRY 查詢	:	Ms KANG Ling, Laboratory Manager 江玲女士
TELEPHONE 電話	:	2774 2678
FAX 傳真	:	2766 3526
E-MAIL 電郵	:	Jasmine.Kang@SARTORIUS.com
WEBSITE ADDRESS 網址	:	http://www.sartorius.com/
CLIENTELE 服務對象	:	Public 公眾

Sartorius Hong Kong Limited – Calibration Laboratory
賽多利斯香港有限公司－校正實驗室

ADDRESS **地址**	:	Unit 1012, 10/F, Lu Plaza, 2 Wing Yip Street, Kwun Tong, Kowloon, Hong Kong 香港九龍觀塘榮業街 2 號振萬廣場 10 樓 1012 室
ACCREDITED TEST CATEGORY **認可測試類別**	:	Calibration Services 校正服務

Sartorius Hong Kong Limited – Calibration Laboratory
賽多利斯香港有限公司 — 校正實驗室
Unit 1012, 10/F, Lu Plaza, 2 Wing Yip Street, Kwun Tong, Kowloon, Hong Kong
香港九龍觀塘榮業街 2 號振萬廣場 10 樓 1012 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED[@]** 特定測試或量度的特性[@]	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities		
- Mass		
- Electronic balance	Calibration for mass using OIML Class E1 standard weights from 1 mg to 5 g in accordance with in-house procedure CC01 over the following range:	
	1 mg to 6 g	0.003 mg to 0.016 mg
	Calibration for mass using OIML Class E2 standard weights from 1 mg to 5 kg in accordance with in-house procedure CC01 over the following ranges:	
	1 mg	0.006 mg
	above 1 mg to 6 g	0.006 mg to 0.03 mg
	above 6 g to 50 g	0.03 mg to 0.07 mg
	above 50 g to 200 g	0.07 mg to 0.3 mg
	above 200 g to 520 g	0.3 mg to 1 mg
	above 520 g to 2000 g	1 mg to 3 mg
	above 2000 g to 3000 g	3 mg to 4 mg
	above 3000 g to 4000 g	4 mg to 5 mg
	above 4000 g to 5200 g	5 mg to 7 mg
	above 5200 g to 6200 g	7 mg to 20 mg
	On-site calibration for mass using OIML Class E2 standard weights from 1 mg to 5 kg, in accordance with in-house procedure CC01 over the following ranges:	
	1 mg	0.006 mg
	above 1 mg to 6 g	0.006 mg to 0.03 mg
	above 6 g to 50 g	0.03 mg to 0.07 mg
	above 50 g to 200 g	0.07 mg to 0.3 mg
	above 200 g to 520 g	0.3 mg to 1 mg
	above 520 g to 2000 g	1 mg to 3 mg
	above 2000 g to 3000 g	3 mg to 4 mg
	above 3000 g to 4000 g	4 mg to 5 mg
	above 4000 g to 5200 g	5 mg to 7 mg
	above 5200 g to 6200 g	7 mg to 20 mg

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Sartorius Hong Kong Limited – Calibration Laboratory
賽多利斯香港有限公司 — 校正實驗室
Unit 1012, 10/F, Lu Plaza, 2 Wing Yip Street, Kwun Tong, Kowloon, Hong Kong
香港九龍觀塘榮業街 2 號振萬廣場 10 樓 1012 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and related quantities (cont'd)		
- Volume		
- Single channel piston-operated pipette (Type A only)	Calibration for delivered volume in accordance with ISO 8655-6: 2002 and verification for maximum permissible systematic error and random error as specified in ISO 8655-2: 2002 over the following ranges:	
	1 µL to 5 µL	0.07 µL
	above 5 µl to 10 µL	0.1 µL
	above 10 µL to 20 µL	0.7 µL
	above 20 µL to 100 µL	1 µL
	above 100 µL to 500 µL	5 µL
	above 500 µL to 1 mL	7 µL
	above 1 mL to 5 mL	29 µL
	above 5 mL to 10 mL	50 µL
	Calibration for delivered volume in accordance with ISO 8655-6: 2022 and verification for maximum permissible systematic error and random error as specified in ISO 8655-2: 2022 over the following ranges:	
	0.3 µL	0.03 µL
	above 0.3 µl to 3 µL	0.09 µL
	above 3 µL to 10 µL	0.15 µL
	above 10µL to 100 µL	1.0 µL
	above 100µL to 500 µL	5 µL
	above 500 µL to 1 mL	7 µL
	above 1 mL to 5 mL	29 µL
	above 5 mL to 10 mL	57 µL

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

東莞兆閔帷幕牆有限公司

ADDRESS : 中國廣東省東莞市萬江區新豐路106號
地址

ENQUIRY : 胡貝貝先生，工程師
查詢

TELEPHONE : (86) 189 2251 5552
電話

FAX : (86) 769 2218 2108
傳真

E-MAIL : chaomin66@163.com
電郵

WEBSITE ADDRESS : -
網址

CLIENTELE : Public
服務對象 公眾

東莞兆閔帷幕牆有限公司

ADDRESS : 中國廣東省東莞市萬江區新豐路 106 號
地址

ACCREDITED TEST CATEGORY : Construction Materials
認可測試類別 建築材料

東莞兆閔帷幕牆有限公司

中國廣東省東莞市萬江區新豐路 106 號

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Curtain walls	Air leakage test	ASTM E283-04 (2012) CNS 13971: 2006
	Cyclic safety test for curtain wall system	Buildings Department APP 37 (May 2012) App. B Buildings Department Code of Practice for Structural Use of Glass (2018) Table 8.1
	Static test to seismic and wind interstory drifts	AAMA 501.4: 2018 CNS 14281: 2006
	Structural performance by uniform static air pressure difference	ASTM E330-14 CNS 13972: 2006
	Water penetration test by dynamic pressure	AAMA 501.1: 2017 CNS 13973: 2006
	Water penetration test by uniform static air pressure difference	ASTM E331-00 (2016) CNS 13974: 2006

KAS Quality Service (Guangzhou) Co., Ltd.
凱斯質量技術服務(廣州)有限公司

ADDRESS : DeShi Science and Technology Parks, No. 46 NanXiang San Road, Guangzhou Science City, GETDD Guangzhou 510663, China
地址 中國廣東省廣州市科學城南翔三路46號得實科技園

ENQUIRY : Mr Levin ZHANG, General Manager
查詢 張國梁先生，總經理

TELEPHONE : 86-13926080307
電話

E-MAIL : manager@kastesting.com
電郵

WEBSITE ADDRESS www.kastesting.com
網址

CLIENTELE : Public
服務對象 公眾

KAS Quality Service (Guangzhou) Co., Ltd.
凱斯質量技術服務(廣州)有限公司

ADDRESS **地址**	:	Chenziwei, Xinsha Village Commitee, Muzhou Town, Xinhui District, Jiangmen, Guangdong 529143, China 中國廣東省江門市新會區睦州鎮新沙村民委員會晨字圍
ACCREDITED TEST CATEGORIES **認可測試類別**	:	Construction Materials 建築材料

KAS Quality Service (Guangzhou) Co., Ltd.
凱斯質量技術服務(廣州)有限公司

Chenziwei, Xinsha Village Commitee, Muzhou Town, Xinhui District, Jiangmen, Guangdong 529143, China
中國廣東省江門市新會區睦州鎮新沙村民委員會晨字圍

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Fire (Fire resistance tests)	Fire resistance tests – general requirements alternative and additional procedures (excluding impact test)	BS 476: Part 20: 1987 + Amd. 6487 + Corr. 1: 2014 BS EN 1363-1: 2012 BS EN 1363-1: 2020 BS EN 1363-2: 1999 excluding Cl. 7
	Fire resistance tests for non-loadbearing vertical elements of building construction	AS 1530.4: 2014 Section 3 & 8 BS 476: Part 20: 1987 + Amd. 6487 + Corr. 1: 2014 & BS 476: Part 22: 1987 + Corr. 1: 2014 BS EN 1364-1: 1999 excluding Cl. 9.5 BS EN 1364-1: 2015 excluding Cl. 9.5
	Fire resistance tests for loadbearing vertical elements (excluding impact test) in the force range 0 kN - 1600 kN	AS 1530.4: 2014 Section 3 BS 476: Part 20: 1987 + Amd. 6487 + Corr. 1: 2014 & BS 476: Part 21: 1987 + Corr. 1: 2014 BS EN 1365-1: 1999 excluding Cl. 9.5 BS EN 1365-1: 2012 + Corr. 1: 2013 excluding Cl. 9.5
	Fire resistance tests for doors, shutters and openable windows	BS EN 1634-1: 2014 + A1: 2018
	Fire resistance tests of door assemblies	AS 1530.4: 2014 Section 7 SS 332: 2018 + A1: 2022 Cl. 5 & Annex B
	Fire resistance tests for shutters assemblies	AS 1530.4: 2014 Section 7 SS 489: 2015 Cl. 5
Fire (Smoke control tests)	Smoke control test for smoke control doors and shutters	BS EN 1634-3: 2004 + Corr. 1: 2007
	Test for permeability to smoke for static smoke barrier	BS EN 12101-1: 2005 + A1: 2006 Cl. 4.4.2, Annex C.2, C.3 & C.4
Fire (Other)	Pre-test conditioning for doors, shutters and openable windows	BS EN 14600: 2005 Cl. 5.1 (excluding Cl. 5.1.1.2) & Cl. 5.2 & 5.3.2 BS EN 16034: 2014 + Corr. 2014 Annex A.2.2, A.3 & A.4

Weldtech Inspection & Testing Limited
宏泰檢測有限公司

ADDRESS 地址	:	Room H1, 21/F, Block 2, Golden Dragon Industrial Centre, 162-170 Tai Lin Pai Road, Kwai Chung, New Territories, Hong Kong 香港新界葵涌大連排道 162-170 號金龍工業中心第二座 21 樓 H1 室
ENQUIRY 查詢	:	Mr CHOW Chi-leung, General Manager 周子良先生，總經理
TELEPHONE 電話	:	3577 8527
FAX 傳真	:	-
E-MAIL 電郵	:	withkinfo@gmail.com
Website Address 網址	:	-
CLIENTELE 服務對象	:	Public 公眾

Weldtech Inspection & Testing Limited
宏泰檢測有限公司

ADDRESS
地址

Main Laboratory		Room H1, 21/F, Block 2, Golden Dragon Industrial Centre, 162-170 Tai Lin Pai Road, Kwai Chung, New Territories, Hong Kong 香港新界葵涌大連排道 162-170 號金龍工業中心第二座 21 樓 H1 室
Test Location	:	No. B11, Block B Shops, Shi Ji Kang Cheng, Chang Ping, Dongguan City, Guangdong Province, China 中國廣東省東莞市常平鎮世紀康城 B 棟 B11 號鋪
ACCREDITED TEST CATEGORY **認可測試類別**	:	Construction Materials 建築材料

Weldtech Inspection & Testing Limited
宏泰檢測有限公司
Room H1, 21/F, Block 2, Golden Dragon Industrial Centre, 162-170 Tai Lin Pai Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌大連排道 162-170 號金龍工業中心第二座 21 樓 H1 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Welds (non-destructive)	Liquid penetrant test (Colour contrast method)	BS EN 571-1: 1997 BS EN ISO 3452-1: 2021 in conjunction with the following specification(s): BS EN ISO 5817: 2023 Table 1 Buildings Department Code of Practice for the Structural Use of Steel 2011 (2023) Table 14.3b
	Magnetic particle test (magnetic flow method color contrast technique using permanent magnets and A.C. yokes)	BS EN 1290: 1998 BS EN ISO 9934-1: 2016 BS EN ISO 17638: 2016 in conjunction with the following specification(s): BS EN ISO 5817: 2023 Table 1 Buildings Department Code of Practice for the Structural Use of Steel 2011 (2023) Table 14.3b
	Ultrasonic test (Butt welds in plates & pipes, 'T' joint welds, nozzle welds and node welds)	BS EN 1714: 1998 (Level A, B & C) BS EN ISO 17640: 2018 (Level A, B & C) in conjunction with the following specification(s): BS EN ISO 5817: 2023 Table 1 Buildings Department Code of Practice for the Structural Use of Steel 2011 (2023) Table 14.3b
	Visual examination	BS EN 970: 1997 BS EN ISO 17637: 2016 in conjunction with the following specification(s): BS 5400-6: 1999 Cl. 5.5.2.4.1 BS EN ISO 5817: 2023 Table 1 Buildings Department Code of Practice for the Structural Use of Steel 2011 (2023) Table 14.3b
	Visual examination and bend test on stud connectors	<Visual examination as follows:> BS EN 970: 1997 BS EN ISO 17637: 2016 <together with the following bend test method:> BS 5400-6: 1999 + Corr. 1: 2002 Cl. 5.5.4 (b) BS EN ISO 14555: 2017 Cl. 11.3 (excluding Torque wrench method) in conjunction with the following specification(s): BS EN ISO 14555: 2017 Cl. 11.2, 12.2 & 12.3 Buildings Department Code of Practice for the Structural Use of Steel 2011 (2023) Cl. 14.3.7.3

Weldtech Inspection & Testing Limited
宏泰檢測有限公司
No. B11, Block B Shops, Shi Ji Kang Cheng, Chang Ping, Dongguan City, Guangdong Province, China
中國廣東省東莞市常平鎮世紀康城 B 棟 B11 號鋪

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Metallic materials	Charpy V-notch impact test	BS EN 10045-1: 1990 BS EN ISO 148-1: 2016 in conjunction with the following specification(s): BS EN 10025-1: 2004 Cl. 10.2.2 BS EN 10025-2: 2019 Cl. 10.2.2 & Table 8 BS EN 10025-3: 2019 Cl. 10.2.2, Table 5 & 6 BS EN 10025-4: 2019 Cl. 10.2.2, Table 5 & 6 BS EN 10025-5: 2019 Cl. 10.2.2 & Table 5 BS EN 10088-2: 2014 Cl. 7.4.4, Table 7, 8 & 10 BS EN 10210-1: 2006 Cl. 6.6.2, 9.2.3, Table A.3 & B.3 BS EN 10219-1: 2006 Cl. 6.7.2, 9.2.3, Table A.3, B.4 & B.5
	Tensile test of metallic materials in the force range 4 kN to 600 kN	BS EN 10002-1: 2001 BS EN ISO 6892-1: 2019 Cl. 10.3.2 & 10.3.3 Methods A & B in conjunction with the following specification(s): BS EN 10025-1: 2004 Cl. 7.3.1, 9.2.3.2 & 10.2.1 BS EN 10025-2: 2019 Cl.10.2.1, Table 6 & 7 BS EN 10025-3: 2019 Cl. 10.2.1 & Table 4 BS EN 10025-4: 2019 Cl. 10.2.1 & Table 4 BS EN 10025-5: 2019 Cl. 10.2.1 & Table 4 BS EN 10025-6: 2019 Cl. 10.2.1 & Table 4 BS EN 10088-2: 2014 Cl. 7.4.2, Table 7 – 11 & 17 – 20 BS EN 10088-3: 2014 Cl. 7.4.2, Table 8 – 19 & 25 BS EN 10088-4: 2009 Cl. 7.4.2, Table 7 – 16 BS EN 10088-5: 2009 Cl. 7.4.2, Table 8 – 18 & 20 BS EN 10149-2: 2013 Table 2 BS EN 10149-3: 2013 Table 2 BS EN 10164: 2018 Cl. 6.1 & 9.1 BS EN 10210-1: 2006 Cl. 6.6.1, 9.2.1 & 9.2.2 BS EN 10210-3: 2020 Cl. 9.3.1, 9.4.2 & 10.2.2 BS EN 10219-1: 2006 Cl. 6.7.1, 9.2.1 & 9.2.2 BS EN 10248-1: 2023 Cl. 9.2.2 & 10.2.1
	Vickers hardness test of metallic materials in the scales of HV 5, HV 10 and HV30	BS EN ISO 6507-1: 2023

Weldtech Inspection & Testing Limited
宏泰檢測有限公司
No. B11, Block B Shops, Shi Ji Kang Cheng, Chang Ping, Dongguan City, Guangdong Province, China
中國廣東省東莞市常平鎮世紀康城 B 棟 B11 號鋪

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Welds (destructive)	Bend test on welds in metallic materials	BS EN ISO 5173: 2023
	Charpy V-notch impact test on welds in metallic materials	BS EN ISO 9016: 2022
	Fracture test on welds in metallic materials	BS EN 1320: 1997 BS EN ISO 9017: 2018 in conjunction with the following specification(s): BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 BS EN ISO 5817: 2023 Table 1
	Macro examination on arc stud welding in metallic materials	BS EN ISO 17639: 2022 in conjunction with the following specification(s): BS EN ISO 14555: 2017 Cl. 11.6 & 12.6
	Macroscopic examination on welds in metallic materials	BS EN 1321: 1997 BS EN ISO 17639: 2022 in conjunction with the following specification(s): BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 BS EN ISO 5817: 2023 Table 1
	Tensile test on arc stud welding in metallic materials in the force range 4 kN to 600 kN	BS EN ISO 6892-1: 2019 Cl. 10.3.2 & 10.3.3 Methods A & B in conjunction with the following specification(s): BS EN ISO 14555: 2017 Cl. 11.4 & 12.4
	Transverse tensile test on welds in metallic materials in the force range 4 kN to 600 kN	BS EN ISO 6892-1: 2019 Cl. 10.3.2 & 10.3.3 Methods A & B in conjunction with the following specification(s): BS EN ISO 4136: 2022
	Vickers hardness test on welded joints in the scale of HV5 and HV10	BS EN ISO 9015-1: 2011

LUX Environmental Service Company Limited – Lux Laboratory

ADDRESS 地址	:	Flat/RM 1902, 19/F, Trium Lab, 21 Luk Hop Street, San Po Kong, Kowloon, Hong Kong 香港九龍新蒲崗六合街21號駿星創科中心19樓1902室
ENQUIRY 查詢	:	Ms LING Wan-man, Technical Manager
TELEPHONE 電話	:	3500 3935
FAX 傳真	:	3007 6587
E-MAIL 電郵	:	info@luxlabhk.com
WEBSITE ADDRESS 網址	:	https://luxlabhk.com/
CLIENTELE 服務對象	:	Public 公眾

LUX Environmental Service Company Limited – Lux Laboratory

ADDRESS **地址**	:	Flat/RM 1902, 19/F, Trium Lab, 21 Luk Hop Street, San Po Kong, Kowloon, Hong Kong 香港九龍新蒲崗六合街 21 號駿星創科中心 19 樓 1902 室
ACCREDITED TEST CATEGORY **認可測試類別**	:	Calibration Services 校正服務

LUX Environmental Service Company Limited – Lux Laboratory

Flat/RM 1902, 19/F, Trium Lab, 21 Luk Hop Street, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗六合街 21 號駿星創科中心 19 樓 1902 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Mass and Related Measurement		
- Pressure		
- Digital Pressure Gauge	Calibration for gauge pressure using air as pressure medium in accordance with in-house procedure SOP-CAL-005 over the following ranges:	
	-85 kPa to -20 kPa	0.27 kPa
	0.1 kPa to 1 kPa	13 Pa
	100 kPa to 600 kPa	3.8 kPa

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Aicon Company Limited

ADDRESS 地址	:	Flat P, 8/F, Wai Cheung Industrial Centre, 5 Shek Pai Tau Road, Tuen Mun, New Territories, Hong Kong 香港新界屯門石排頭路 5 號偉昌工業中心 8 樓 P 室
ENQUIRY 查詢	:	Mr Vincent ZHOU, Quality Manager 周昱宇先生，品質經理
TELEPHONE 電話	:	9432 6550
FAX 傳真	:	-
E-MAIL 電郵	:	info@aiconcoltd.com
Website Address 網址	:	www.aiconcoltd.com
CLIENTELE 服務對象	:	Public 公眾

Aicon Company Limited

ADDRESS **地址**		Flat P, 8/F, Wai Cheung Industrial Centre, 5 Shek Pai Tau Road, Tuen Mun, New Territories, Hong Kong 香港新界屯門石排頭路 5 號偉昌工業中心 8 樓 P 室
ACCREDITED TEST CATEGORY **認可測試類別**	:	Construction Materials 建築材料

Aicon Company Limited

Flat P, 8/F, Wai Cheung Industrial Centre, 5 Shek Pai Tau Road, Tuen Mun, New Territories, Hong Kong
香港新界屯門石排頭路 5 號偉昌工業中心 8 樓 P 室

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Concrete	Sampling fresh concrete on site	CS1: 2010 + Amd. 1/2017 Section 1
	Slump of fresh concrete	CS1: 2010 + Amd. 1/2017 Section 2 Part I
	Making test cubes from fresh concrete	CS1: 2010 Section 7
	Temperature measurement of fresh concrete	BS 5328: Part 4: 1990 Cl. 3.4(b) in conjunction with the following specification(s): BS EN 206: 2013 + A2: 2021 Cl. 5.2.9

Fugro MateriaLab Services Limited
輝固檢測服務有限公司

ADDRESS : LG/F, Fugro Development Centre
地址 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心低層地下

ENQUIRY : Mr Joseph POON Tim-leung, Managing Director
查詢 潘添良先生，董事總經理

TELEPHONE : 2450 8233
電話

FAX 2450 6138
傳真

E-MAIL : matlab@fugro.com
電郵

WEBSITE ADDRESS www.fugro.com
網址

CLIENTELE : Public
服務對象 公眾

Contact details last updated on: 12 December 2024

Fugro MateriaLab Services Limited
輝固檢測服務有限公司

ADDRESS **地址**	:	LG/F, Fugro Development Centre 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong 香港新界屯門大欖樂怡街五號輝固發展中心低層地下
ACCREDITED TEST CATEGORIES **認可測試類別**	:	Construction Materials 建築材料

Fugro MateriaLab Services Limited
輝固檢測服務有限公司

LG/F, Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心低層地下

Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Soil (Phase 1)	In-situ density and in-situ dry density of soils by sand replacement method suitable fine- and medium-grained soils (with small pouring cylinder)	GEOSPEC 3: 2001 Test 11.1

Hong Kong Authentication Centre of Valuable Chinese Medicines Limited
香港名貴中藥檢定中心有限公司

ADDRESS 地址	:	R11, 6/F, 6W, Hong Kong Science Park, Shatin, New Territories, Hong Kong 香港新界沙田香港科學園科技大道西 6 號 6W 大樓 6 樓 11 室
ENQUIRY 查詢	:	Ms Fung Hau-yee, Operational & Technical Manager 馮巧儀，營運與技術經理
TELEPHONE 電話	:	9493 5375
FAX 傳真	:	N/A
E-MAIL 電郵	:	contact@hkacdoc.com
Website Address 網址	:	www.hkacvcm.com
CLIENTELE 服務對象	:	Public 公眾

Hong Kong Authentication Centre of Valuable Chinese Medicines Limited
香港名貴中藥檢定中心有限公司

ADDRESS : R11, 6/F, 6W, Hong Kong Science Park, Shatin, New Territories, Hong Kong
地址 香港新界沙田香港科學園科技大道西 6 號 6W 大樓 6 樓 11 室

ACCREDITED TEST CATEGORY : Chinese Medicine 中藥
認可測試類別

Hong Kong Authentication Centre of Valuable Chinese Medicines Limited
香港名貴中藥檢定中心有限公司

R11, 6/F, 6W, Hong Kong Science Park, Shatin, New Territories, Hong Kong
香港新界沙田香港科學園科技大道西 6 號 6W 大樓 6 樓 11 室

Chinese Medicine 中藥		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
Croci Stigma 西紅花	Microscopic examination:- - Microscopic identification 顯微鑒別	Hong Kong Chinese Materia Medica Standards Volume 5 香港中藥材標準第五冊

Bioenergy Resources Research Centre Limited
生物能源研究中心有限公司

ADDRESS : Flat 14A, 10/F, Block B Merit Industrial Centre, 94 Tokwawan Road, Tokwawan, Kowloon, Hong Kong
地址 香港九龍土瓜環土瓜環道 94 號美華工業中心 B 座 10 樓 14A 室

ENQUIRY : Leung Chun Hei, Laboratory Manager
查詢 梁振禧，實驗室經理

TELEPHONE : 6199 0296
電話

FAX : 2954 0783
傳真

E-MAIL : jay@brrchk.com
電郵

CLIENTELE : In–house laboratory
服務對象 內部實驗室

Bioenergy Resources Research Centre Limited
生物能源研究中心有限公司

ADDRESS : Flat 14A, 10/F, Block B Merit Industrial Centre, 94 Tokwawan Road, Tokwawan, Kowloon, Hong Kong
地址 香港九龍土瓜環土瓜環道 94 號美華工業中心 B 座 10 樓 14A 室

ACCREDITED TEST CATEGORY : Food 食品
認可測試類別

Bioenergy Resources Research Centre Limited
生物能源研究中心有限公司

Flat 14A, 10/F, Block B Merit Industrial Centre, 94 Tokwawan Road, Tokwawan, Kowloon, Hong Kong, China
香港九龍土瓜環土瓜環道 94 號美華工業中心 B 座 10 樓 14A 室

Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Food composition tests:-	
Crude and refined fats and oils	- Free fatty acid	AOCS Official Method Ca 5a-40 Revised 2017

Westwood Hong & Associates Limited
康冠偉顧問有限公司

ADDRESS : Room 2404, Tung Wai Commercial Building, 109-111 Gloucester Road, Wanchai, Hong Kong
地址 香港灣仔告士打道 109-111 號東惠商業大廈 24 樓 2404 室

ENQUIRY : Mr Peter YU, Quality Control Manager
查詢 余沛軒先生，質量負責人

TELEPHONE : 2838 2738
電話

FAX 2591 6189
傳真

E-MAIL : wha@wha.com.hk
電郵

WEBSITE ADDRESS https://whaacoustics.com
網址

CLIENTELE : Public
服務對象 公眾

Westwood Hong & Associates Limited
康冠偉顧問有限公司

ADDRESS
地址

Main Laboratory	:	Room 2404, Tung Wai Commercial Building, 109-111 Gloucester Road, Wanchai, Hong Kong 香港灣仔告士打道 109-111 號東惠商業大廈 24 樓 2404 室
Test location at Huizhou City	:	Building 3, Pengling Industrial Park, No. 56, Ju Yuan Road, Qiu Chang Town, Huiyang, Huizhou, Guangdong Province, China 中國廣東省惠州市惠陽區秋長鎮桔園路56號鵬嶺工業城(廠房三)
ACCREDITED TEST CATEGORY **認可測試類別**	:	Construction Materials 建築材料

Westwood Hong & Associates Limited
康冠偉顧問有限公司

Room 2404, Tung Wai Commercial Building, 109-111 Gloucester Road, Wanchai, Hong Kong
香港灣仔告士打道 109-111 號東惠商業大廈 24 樓 2404 室

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Acoustic (Sound insulation)	Field measurement of airborne sound insulation between rooms in buildings and of building elements	BS EN ISO 16283-1: 2014 in conjunction with the following rating method: BS EN ISO 717-1: 2020
	Field measurement of airborne sound attenuation between rooms in buildings	ASTM E336-23 in conjunction with the following rating method: ASTM E413-22
	Field measurements of airborne sound insulation of façade elements and façade	BS EN ISO 16283-3: 2016 in conjunction with the following rating method: BS EN ISO 717-1: 2020
Acoustic (Impact insulation)	Field measurement of impact sound insulation insulation between rooms in buildings and of building elements	BS EN ISO 16283-2: 2020 in conjunction with the following rating method: BS EN ISO 717-2: 2020
	Field measurement of tapping machine impact sound transmission through floor-ceiling assemblies and associated support structures	ASTM E1007-21 in conjunction with the following rating method: ASTM E989-21
Acoustic (Sound power level)	Field measurement of sound power levels of noise sources using sound pressure in an essentially free field over a reflecting plane	BS EN ISO 3744: 2010
Acoustic (Other)	Field measurement of reverberation time in ordinary rooms	BS EN ISO 3382-2: 2008 + Cor. 1: 2009

Westwood Hong & Associates Limited
康冠偉顧問有限公司

Building 3, Pengling Industrial Park, No. 56, Ju Yuan Road, Qiu Chang Town, Huiyang, Huizhou, Guangdong Province, China
中國廣東省惠州市惠陽區秋長鎮桔園路 56 號鵬嶺工業城(廠房三)

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Acoustic (Sound insulation)	Laboratory measurement of airborne sound insulation of building elements	BS EN ISO 10140-2: 2021 in conjunction with the following rating method: BS EN ISO 717-1: 2020
	Laboratory measurement of airborne sound transmission loss of building partitions and elements	ASTM E90-09 (2016) ASTM E90-23 in conjunction with the following rating method: ASTM E413-22
	Laboratory measurement of intrinsic characteristics of airborne sound insulation for road traffic noise reducing devices	BS EN ISO 10140-2: 2021 in conjunction with the following rating method: BS EN 1793-2: 2018
Acoustic (Impact insulation)	Laboratory measurement of impact sound insulation of building elements	BS EN ISO 10140-3: 2021 in conjunction with the following rating method: BS EN ISO 717-2: 2020
Acoustic (Sound power level)	Laboratory measurement of sound power levels of noise sources using pressure – precision methods for reverberation test rooms	BS EN ISO 3741: 2010

Guangdong Construction Engineering Quality & Safety Testing Head Station Co., Ltd.
廣東省建設工程質量安全檢測總站有限公司

ADDRESS : No. 6, Jianye 6th Road, North of Kaichuang Avenue, Huangpu District, Guangzhou, Guangdong, China
地址 中國廣東省廣州市黃埔區開創大道北建業六路6號

ENQUIRY : Ms YANG Dan, Executive Assistant
查詢 楊丹小姐,行政助理

TELEPHONE : 020-87252485, 13710391367
電話

FAX : 020-87256379
傳真

E-MAIL : 527086720@qq.com
電郵

CLIENTELE : Public
服務對象 公眾

Guangdong Construction Engineering Quality & Safety Testing Head Station Co., Ltd.
廣東省建設工程質量安全檢測總站有限公司

ADDRESS
地址

No. 6, Jianye 6th Road, North of Kaichuang Avenue, Huangpu District, Guangzhou, Guangdong, China
中國廣東省廣州市黃埔區開創大道北建業六路6號

ACCREDITED TEST CATEGORY
認可測試類別 : Construction Materials 建築材料

Guangdong Construction Engineering Quality & Safety Testing Head Station Co., Ltd.
廣東省建設工程質量安全檢測總站有限公司
No. 6, Jianye 6th Road, North of Kaichuang Avenue, Huangpu District, Guangzhou, Guangdong, China
中國廣東省廣州市黃埔區開創大道北建業六路 6 號

Construction Materials 建築材料

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Curtain Walls	Cyclic safety test for curtain wall system	Buildings Department APP-37 (May 2012) App. B Buildings Department Code of Practice for Structural Use of Glass (2018) Table 8.1
	Water penetration test by uniform static air pressure difference	ASTM E331-00 (Reapproved 2023) AS/NZS 4284:2008 Cl. 8.5
	Water penetration test by cyclic static air pressure difference	ASTM E547-00 (Reapproved 2016) AS/NZS 4284:2008 Cl. 8.6
	BMU restraint test	AS/NZS 4284:2008 Cl. 8.7
	Structural performance by uniform static air pressure difference	ASTM E330/E330M-14 (Reapproved 2021) AS/NZS 4284:2008 Cl. 8.2, 8.3 & 8.8
	Water penetration by dynamic pressure	AAMA 501.1-17
	Air leakage rate	ASTM E283/E283M-19 AS/NZS 4284:2008 Cl. 8.4
	Static test to seismic and wind-induced inter-story drift	AAMA 501.4-18 AS/NZS 4284:2008 Cl. 8.9
	Static test to vertical inter-story movements	AAMA 501.7-17
建築幕牆	建築幕牆氣密性能檢測方法	GB/T 15227-2019
	建築幕牆水密性能檢測方法	GB/T 15227-2019
	建築幕牆抗風壓性能檢測方法	GB/T 15227-2019
	建築幕牆層間變形性能分級及檢測方法	GB/T 18250-2015

New Creation Calibration Service Limited
新創校正服務有限公司

ADDRESS 地址	:	Flat F & G, 11/F., Garment Centre, 576-586 Castle Peak Road, Cheung Sha Wan Kowloon, Hong Kong 香港九龍長沙灣青山道576-586號製衣中心11樓F及G室
ENQUIRY 查詢	:	Mr WONG Kam-kuen, Senior Engineer 王錦權先生，高級工程師
TELEPHONE 電話	:	2736 3336
FAX 傳真	:	2736 3332
E-MAIL 電郵	:	callab@nccsvc.com.hk
WEBSITE ADDRESS 網址	:	www.nccsvc.com.hk
CLIENTELE 服務對象	:	Public 公眾

New Creation Calibration Service Limited
新創校正服務有限公司

ADDRESS **地址**	:	Flat F & G, 11/F., Garment Centre, 576-586 Castle Peak Road, Cheung Sha Wan Kowloon, Hong Kong 香港九龍長沙灣青山道 576-586 號製衣中心 11 樓 F 及 G 室
APPLIED TEST CATEGORY **申請測試類別**	:	Calibration Services 校正服務

New Creation Calibration Service Limited
新創校正服務有限公司
Flat F & G, 11/F., Garment Centre, 576-586 Castle Peak Road, Cheung Sha Wan, Kowloon, Hong Kong
香港九龍長沙灣青山道 576-586 號製衣中心 11 樓 F 及 G 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electricity		
- Direct current and low frequency		
- DC voltage calibrator/ source	Calibration for DC voltage in accordance with in-house procedure LF011 over the following ranges:	
	10 mV to below 200 mV	0.35 μV to 2.6 μV
	200 mV to below 2 V	3.0 μV to 20 μV
	2 V to below 20 V	22 μV to 0.17 mV
	20 V to below 200 V	0.33 mV to 2.3 mV
	200 V to 1000 V	4.8 mV to 15 mV
- DC voltmeter	Calibration for DC voltage in accordance with in-house procedure LF041 over the following ranges:	
	2 mV to below 220 mV	0.98 μV to 3.5 μV
	0.22 V to below 2.2 V	3.5 μV to 22 μV
	2.2 V to below 11 V	25 μV to 0.11 mV
	11 V to below 22 V	0.11 mV to 0.22 mV
	22 V to below 220 V	0.35 mV to 2.4 mV
	220 V to 1020 V	3.5 mV to 14 mV
	Calibration for DC voltage in accordance with in-house procedure LF061 over the following ranges:	
	2 mV to below 330 mV	1.2 μV to 9.0 μV
	0.33 V to below 3.3 V	6.5 μV to 45 μV
	3.3 V to below 33 V	69 μV to 0.48 mV
	33 V to below 330 V	0.86 mV to 7.1 mV
	330 V to 1000 V	8.6 mV to 23 mV

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

New Creation Calibration Service Limited
新創校正服務有限公司
Flat F & G, 11/F., Garment Centre, 576-586 Castle Peak Road, Cheung Sha Wan, Kowloon, Hong Kong
香港九龍長沙灣青山道 576-586 號製衣中心 11 樓 F 及 G 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Electricity		
- Direct current and low frequency		
- DC decade resistance box/ resistance source	Calibration for DC resistance in accordance with in-house procedure LF015 over the following ranges:	
	1 mΩ to below 2 Ω	47 μΩ to 93 μΩ
	2 Ω to below 20 Ω	88 μΩ to 0.47 mΩ
	20 Ω to below 200 Ω	0.35 mΩ to 2.5 mΩ
	200 Ω to below 2 kΩ	3.5 mΩ to 25 mΩ
	2 kΩ to below 20 kΩ	35 mΩ to 0.25 Ω
	20 kΩ to below 200 kΩ	0.35 Ω to 2.5 Ω
	200 kΩ to below 2 MΩ	5.8 Ω to 37 Ω
	2 MΩ to below 20 MΩ	0.19 kΩ to 0.81 kΩ
	20 MΩ to below 200 MΩ	21 kΩ to 0.11 MΩ
- DC resistance meter	Calibration for DC resistance in accordance with in-house procedure LF045 at the following specific values:	
	1 Ω	0.13 mΩ
	1.9 Ω	0.25 mΩ
	10 Ω	0.39 mΩ
	19 Ω	0.68 mΩ
	100 Ω	2.3 mΩ
	190 Ω	4.4 mΩ
	1 kΩ	18 mΩ
	1.9 kΩ	33 mΩ
	10 kΩ	0.17 Ω
	19 kΩ	0.31 Ω
	100 kΩ	1.9 Ω
	190 kΩ	3.6 Ω
	1 MΩ	27 Ω
	1.9 MΩ	53 Ω
	10 MΩ	0.54 kΩ
	19 MΩ	1.2 kΩ
	100 MΩ	15 kΩ

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

New Creation Calibration Service Limited
新創校正服務有限公司
Flat F & G, 11/F., Garment Centre, 576-586 Castle Peak Road, Cheung Sha Wan, Kowloon, Hong Kong
香港九龍長沙灣青山道 576-586 號製衣中心 11 樓 F 及 G 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Electricity		
- Direct current and low frequency		
- DC resistance meter	Calibration for DC resistance in accordance with in-house procedure LF065 over the following ranges:	
	0 Ω to below 11 Ω	1.2 mΩ to 1.7 mΩ
	11 Ω to below 33 Ω	2.2 mΩ to 2.9 mΩ
	33 Ω to below 110 Ω	2.7 mΩ to 5.2 mΩ
	110 Ω to below 330 Ω	5.9 mΩ to 13 mΩ
	330 Ω to below 1.1 kΩ	13 mΩ to 38 mΩ
	1.1 kΩ to below 3.3 kΩ	59 mΩ to 0.13 Ω
	3.3 kΩ to below 11 kΩ	0.13 Ω to 0.38 Ω
	11 kΩ to below 33 kΩ	0.59 Ω to 1.3 Ω
	33 kΩ to below 110 kΩ	1.3 Ω to 3.8 Ω
	110 kΩ to below 330 kΩ	13 Ω to 21 Ω
	330 kΩ to below 1.1 MΩ	21 Ω to 49 Ω
	1.1 MΩ to below 3.3 MΩ	0.14 kΩ to 0.29 kΩ
	3.3 MΩ to below 11 MΩ	0.58 kΩ to 1.8 kΩ
	11 MΩ to below 33 MΩ	6.3 kΩ to 13 kΩ
	33 MΩ to below 110 MΩ	23 kΩ to 68 kΩ
	110 MΩ to below 330 MΩ	0.50 MΩ to 1.3 MΩ

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

New Creation Calibration Service Limited
新創校正服務有限公司
Flat F & G, 11/F., Garment Centre, 576-586 Castle Peak Road, Cheung Sha Wan, Kowloon, Hong Kong
香港九龍長沙灣青山道 576-586 號製衣中心 11 樓 F 及 G 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Electricity		
- Direct current and low frequency		
- Insulation tester	Calibration for the following parameters in accordance with in-house procedure LF053 over the following ranges:	
	- Continuity resistance over the following ranges:	
	0.01 Ω to 1 Ω	4.7 mΩ to 5.0 mΩ
	Above 1 Ω to 10 Ω	5.0 mΩ to 8.1 mΩ
	Above 10 Ω to 100 Ω	8.1 mΩ to 40 mΩ
	Above 100 Ω to 1 kΩ	40 mΩ to 0.36 Ω
	Above 1 kΩ to 10 kΩ	0.36 Ω to 3.5 Ω
	Above 10 kΩ to 100 kΩ	3.5 Ω to 35 Ω
	- Insulation resistance over the following ranges: at test voltage from 50 V to 5 kV	
	0.1 MΩ to 1.11 MΩ	35 Ω to 0.39 kΩ
	1.111 MΩ to 11.11 MΩ	1.3 kΩ to 13 kΩ
	11.111 MΩ to 111.11 MΩ	13 kΩ to 0.13 MΩ
	111.111 MΩ to 1.11111 GΩ	0.38 MΩ to 3.8 MΩ
	1.111111 GΩ to 11.11111 GΩ	6.4 MΩ to 64 MΩ
	11.111111 GΩ to 100 GΩ	0.13 GΩ to 1.1 GΩ
	- DC Insulation voltage over the following ranges:	
	50 V to 1.2 kV	0.16 V to 2.2 V
	Above 1.2 kV to 6.0 kV	11 V to 39 V

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

New Creation Calibration Service Limited
新創校正服務有限公司
Flat F & G, 11/F., Garment Centre, 576-586 Castle Peak Road, Cheung Sha Wan, Kowloon, Hong Kong
香港九龍長沙灣青山道 576-586 號製衣中心 11 樓 F 及 G 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electricity		
- Direct current and low frequency		
- DC current calibrator/ source	Calibration for DC current in accordance with in-house procedure LF013 over the following ranges:	
	10 μA to below 200 μA	1.1 nA to 12 nA
	0.2 mA to below 2 mA	17 nA to 0.12 μA
	2 mA to below 20 mA	0.17 μA to 1.2 μA
	20 mA to below 200 mA	3.5 μA to 25 μA
	200 m A to below 2 A	58 μA to 0.37 mA
	2 A to below 20 A	1.4 mA to 9.7 mA
- DC ammeter	Calibration for DC current in accordance with in-house procedure LF043 over the following ranges:	
	2 μA to below 220 μA	12 nA to 27 nA
	0.22 mA to below 2.2 mA	27 nA to 0.17 μA
	2.2 mA to below 22 mA	0.27 μA to 1.7 μA
	22 mA to below 220 mA	3.0 μA to 19 μA
	0.22 A to below 2.2 A	59 μA to 0.28 mA
	Calibration for DC current in accordance with in-house procedure LF063 over the following ranges:	
	10 μA to below 330 μA	25 nA to 81 nA
	330 μA to below 3.3 mA	96 nA to 0.44 μA
	3.3 mA to below 33 mA	0.67 μA to 4.1 μA
	33 mA to below 330 mA	6.7 μA to 41 μA
	330 mA to below 1.1 A	0.13 mA to 0.30 mA
	1.1 A to below 2.2 A	0.44 mA to 0.82 mA
	2.2 A to below 3 A	1.1 mA to 1.4 mA
	3 A to below 11 A	2.3 mA to 7.0 mA
	11 A to 20.5 A	14 mA to 24 mA

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

New Creation Calibration Service Limited
新創校正服務有限公司
Flat F & G, 11/F., Garment Centre, 576-586 Castle Peak Road, Cheung Sha Wan, Kowloon, Hong Kong
香港九龍長沙灣青山道 576-586 號製衣中心 11 樓 F 及 G 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Electricity		
- Direct current and low frequency		
- DC ammeter (clamp-on type)	Calibration for DC current in accordance with in-house procedure LF007 over the following range:	
	1 A to 550 A	1.8 mA to 0.90 A
	Above 550 A to 1000A	1.3 A to 2.4 A

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

New Creation Calibration Service Limited
新創校正服務有限公司
Flat F & G, 11/F., Garment Centre, 576-586 Castle Peak Road, Cheung Sha Wan, Kowloon, Hong Kong
香港九龍長沙灣青山道 576-586 號製衣中心 11 樓 F 及 G 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Electricity		
- Direct current and low frequency		
- Earth loop tester	Calibration for earthing resistance in accordance with in-house procedure LF052 at the following specific ranges:	
	0.23 Ω to 0.49 Ω	0.022 Ω
	0.50 Ω to 0.82 Ω	0.023 Ω
	1.23 Ω to 1.32 Ω	0.024 Ω to 0.025 Ω
	5.16 Ω to 5.27 Ω	0.041 Ω to 0.042 Ω
	9.20 Ω to 10.32 Ω	0.061 Ω to 0.068Ω
	90.4 Ω to 99.2 Ω	0.53 Ω to 0.58 Ω
	899.6 Ω to 993.0 Ω	5.2 Ω to 5.8 Ω
- Capacitance meter	Calibration for capacitance in accordance with in-house procedure LF067 over the following ranges:	
	0.4 nF to below 1.1 nF	14 pF to 18 pF
	1.1 nF to below 3.3 nF	18 pF to 31 pF
	3.3 nF to below 11 nF	21 pF to 44 pF
	11 nF to below 33 nF	0.15 nF to 0.21 nF
	33 nF to below 110 nF	0.21 nF to 0.44 nF
	110 nF to below 330 µF	0.67 nF to 1.3 nF
	0.33 µF to below 1.1 µF	2.1 nF to 4.4 nF
	1.1 µF to below 3.3 µF	6.7 nF to 13 nF
	3.3 µF to below 11 µF	21 nF to 44 nF
	11 µF to below 33 µF	86 nF to 0.19 µF
	33 µF to below 110 µF	0.29 µF to 0.69 µF
	110 µF to below 330 µF	0.92 µF to 2.1 µF
	330 µF to below 1.1 mF	2.9 µF to 6.9 µF
	1.1 mF to below 3.3 mF	9.2 µF to 21 µF
	3.3 mF to below 11 mF	29 µF to 69 µF
	11 mF to below 33 mF	0.13 mF to 0.32 mF
	33 mF to 110 mF	0.54 mF to 1.6 mF

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

New Creation Calibration Service Limited
新創校正服務有限公司
Flat F & G, 11/F., Garment Centre, 576-586 Castle Peak Road, Cheung Sha Wan, Kowloon, Hong Kong
香港九龍長沙灣青山道 576-586 號製衣中心 11 樓 F 及 G 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electricity		
- Direct current and low frequency		
- AC voltage calibrator/ source	Calibration for AC voltage in accordance with in-house procedure LF012 over the following ranges:	
	at 40 Hz to below 100 Hz	
	10 mV to below 200 mV	5.8 μV to 30 μV
	200 mV to below 2 V	71 μV to 0.30 mV
	2 V to below 20 V	0.44 mV to 2.4 mV
	20 V to below 200 V	4.4 mV to 24 mV
	200 V to 1000 V	32 mV to 0.33 V
	at 100 Hz to 2 kHz	
	10 mV to below 200 mV	5.8 μV to 30 μV
	200 mV to below 2 V	71 μV to 0.30 mV
	2 V to below 20 V	0.39 mV to 2.0 mV
	20 V to below 200 V	3.9 mV to 20 mV
	200 V to 1000 V	32 mV to 0.33 V
	at above 2 kHz to 10 kHz	
	10 mV to below 200 mV	5.8 μV to 30 μV
	200 mV to below 2 V	71 μV to 0.30 mV
	2 V to below 20 V	0.44 mV to 2.4 mV
	20 V to below 200 V	4.4 mV to 24 mV
	200 V to 1000 V	32 mV to 0.33 V
	at above 10 kHz to 30 kHz	
	10 mV to below 200 mV	13 μV to 80 μV
	200 mV to below 2 V	93 μV to 0.53 mV
	2 V to below 20 V	0.93 mV to 5.3 mV
	20 V to below 200 V	9.3 mV to 53 mV
	at above 30 kHz to 100 kHz	
	10 mV to below 200 mV	32 μV to 0.19 mV
	200 mV to below 2 V	0.35 mV to 1.4 mV
	2 V to below 20 V	3.5 mV to 14 mV
	20 V to below 200 V	35 mV to 0.14 V

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

New Creation Calibration Service Limited
新創校正服務有限公司
Flat F & G, 11/F., Garment Centre, 576-586 Castle Peak Road, Cheung Sha Wan, Kowloon, Hong Kong
香港九龍長沙灣青山道 576-586 號製衣中心 11 樓 F 及 G 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*	
Electricity			
- Direct current and low frequency			
- AC voltmeter	Calibration for AC voltage in accordance with in-house procedure LF042 over the following ranges:		
	at 40 Hz to 20 kHz		
	2.2 mV to below 22 mV	7.3 µV to 11 µV	
	22 mV to below 220 mV	15 µV to 42 µV	
	0.22 V to below 2.2 V	30 µV to 0.23 mV	
	2.2 V to below 22 V	0.30 mV to 2.3 mV	
	22 V to below 220 V	3.5 mV to 25 mV	
	at 50 Hz to 1 kHz		
	220 V to 1020 V	28 mV to 0.12 V	
	at above 20 kHz to 50 kHz		
	2.2 mV to below 22 mV	8.0 µV to 18 µV	
	22 mV to below 220 mV	21 µV to 0.11 mV	
	0.22 V to below 2.2 V	59 µV to 0.38 mV	
	2.2 V to below 22 V	0.59 mV to 3.8 mV	
	22 V to below 220 V	11 mV to 69 mV	
	at above 50 kHz to 100 kHz		
	2.2 mV to below 22 mV	12 µV to 34 µV	
	22 mV to below 220 mV	58 µV to 0.27 mV	
	0.22 V to below 2.2 V	0.17 mV to 0.81 mV	
	2.2 V to below 22 V	1.2 mV to 7.6 mV	
	22 V to below 220 V	27 mV to 0.17 V	
	Calibration for AC voltage in accordance with in-house procedure LF062 over the following ranges:		✓
	at 45 Hz to 10 kHz		
	2 mV to below 33 mV	7.3 µV to 13 µV	
	33 mV to below 330 mV	15 µV to 68 µV	
	0.33 V to below 3.3 V	0.13 mV to 0.65 mV	
	3.3 V to below 33 V	1.3 mV to 6.5 mV	

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

New Creation Calibration Service Limited
新創校正服務有限公司
Flat F & G, 11/F., Garment Centre, 576-586 Castle Peak Road, Cheung Sha Wan, Kowloon, Hong Kong
香港九龍長沙灣青山道 576-586 號製衣中心 11 樓 F 及 G 室

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED@** 特定測試或量度的特性@	**CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*** 校準和測量能力*
Electricity		
- Direct current and low frequency		
- AC voltmeter	Calibration for AC voltage in accordance with in-house procedure LF062 over the following ranges:	
	at 45 Hz to 1 kHz	
	33 V to below 330 V	9.6 mV to 75 mV
	330 V to 1020 V	0.13 V to 0.37 V
	at above 1 kHz to 10 kHz	
	33 V to below 330 V	48 mV to 0.33 V
	at above 1 kHz to 5 kHz	
	330 V to 1020 V	0.88 V to 2.5 V
	at above 5 kHz to 10 kHz	
	330 V to 1020 V	1.4 V to 3.0 V
	at above 10 kHz to 20 kHz	
	2 mV to below 33 mV	7.4 µV to 15 µV
	33 mV to below 330 mV	16 µV to 73 µV
	0.33 V to below 3.3 V	0.15 mV to 0.80 mV
	3.3 V to below 33 V	1.7 mV to 9.9 mV
	33 V to below 330 V	73 mV to 0.39 V
	at above 20 kHz to 50 kHz	
	2 mV to below 33 mV	9.3 µV to 46 µV
	33 mV to below 330 mV	23 µV to 0.15 mV
	0.33 V to below 3.3 V	0.18 mV to 1.3 mV
	3.3 V to below 33 V	2.1 mV to 15 mV
	at above 50 kHz to 100 kHz	
	2 mV to below 33 mV	22 µV to 0.15 mV
	33 mV to below 330 mV	68 µV to 0.35 mV
	0.33 V to below 3.3 V	0.42 mV to 2.9 mV
	3.3 V to below 33 V	5.3 mV to 37 mV

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

New Creation Calibration Service Limited
新創校正服務有限公司
Flat F & G, 11/F., Garment Centre, 576-586 Castle Peak Road, Cheung Sha Wan, Kowloon, Hong Kong
香港九龍長沙灣青山道 576-586 號製衣中心 11 樓 F 及 G 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Electricity		
- Direct current and low frequency		
- AC current calibrator/ source	Calibration for AC current in accordance with in-house procedure LF014 over the following ranges:	
	at 40 Hz to 5 kHz	
	10 µA to below 200 µA	26 nA to 70 nA
	0.2 mA to below 2 mA	0.28 µA to 0.70 µA
	2 mA to below 20 mA	2.8 µA to 7.0 µA
	at 40 Hz to 1 kHz	
	20 mA to below 200 mA	28 µA to 70 µA
	200 mA to below 2 A	0.58 mA to 1.7 mA
	2 A to below 20 A	6.3 mA to 21 mA
	at above 1 kHz to 5 kHz	
	20 mA to below 200 mA	31 µA to 93 µA
	200 mA to below 2 A	1.3 mA to 4.4 mA
	2 A to below 20 A	14 mA to 56 mA
- Tester for double pole RCCB	Calibration for the following parameters in accordance with in-house procedure LF051	
	- Test current at 50 Hz over the following range:	
	3 mA to 1000 mA	0.12 mA to 15 mA
	- Test time over the following range:	
	20 ms to 900 ms	1.4 ms

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

New Creation Calibration Service Limited
新創校正服務有限公司
Flat F & G, 11/F., Garment Centre, 576-586 Castle Peak Road, Cheung Sha Wan, Kowloon, Hong Kong
香港九龍長沙灣青山道 576-586 號製衣中心 11 樓 F 及 G 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Electricity		
- Direct current and low frequency		
- AC ammeter	Calibration for AC current in accordance with in-house procedure LF064 over the following ranges:	
	at 45 Hz to 1 kHz	
	29 µA to below 330 µA	0.16 µA to 0.60 µA
	0.33 mA to below 3.3 mA	0.56 µA to 4.0 µA
	3.3 mA to below 33 mA	3.9 µA to 18 µA
	33 mA to below 330 mA	39 µA to 0.18 mA
	0.33 A to below 1.1 A	0.31 mA to 0.76 mA
	1.1 A to below 3 A	0.88 mA to 2.2 mA
	at 45 Hz to 100 Hz	
	3 A to below 11 A	4.4 mA to 10 mA
	11 A to 20.5 A	22 mA to 35 mA
	at above 100 Hz to 1 kHz	
	3 A to below 11 A	5.8 mA to 16 mA
	11 A to 20.5 A	25 mA to 42 mA
	at above 1 kHz to 5 kHz	
	29 µA to below 330 µA	0.28 µA to 1.4 µA
	0.33 mA to below 3.3 mA	1.0 µA to 7.9 µA
	3.3 mA to below 33 mA	5.4 µA to 33 µA
	33 mA to below 330 mA	96 µA to 0.44 mA
	0.33 A to below 1.1 A	3.5 mA to 8.8 mA
	1.1 A to below 3 A	8.8 mA to 22 mA
	3 A to below 11 A	0.11 A to 0.39 A
	at above 5 kHz to 10 kHz	
	29 µA to below 330 µA	0.50 µA to 3.3 µA
	0.33 mA to below 3.3 mA	2.3 µA to 20 µA
	3.3 mA to below 33 mA	12 µA to 80 µA
	33 mA to below 330 mA	0.20 mA to 0.88 mA
	0.33 A to below 1.1 A	16 mA to 38 mA
	1.1 A to below 3 A	38 mA to 93 mA

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

New Creation Calibration Service Limited
新創校正服務有限公司
Flat F & G, 11/F., Garment Centre, 576-586 Castle Peak Road, Cheung Sha Wan, Kowloon, Hong Kong
香港九龍長沙灣青山道 576-586 號製衣中心 11 樓 F 及 G 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED@ 特定測試或量度的特性@	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Electricity		
- Direct current and low frequency		
- AC ammeter	Calibration for AC current in accordance with in-house procedure LF044 over the following ranges:	
	at 40 Hz to 1 kHz	
	9 µA to below 220 µA	25 nA to 64 nA
	220 µA to below 2.2 mA	87 nA to 0.46 µA
	2.2 mA to below 22 mA	0.87 µA to 4.6 µA
	22 mA to below 220 mA	9.2 µA to 51 µA
	0.22 A to below 2.2 A	0.24 mA to 2.0 mA
	at above 1 kHz to 5 kHz	
	9 µA to below 220 µA	66 nA to 0.24 mA
	220 µA to below 2.2 mA	0.76 µA to 2.4 µA
	2.2 mA to below 22 mA	7.6 µA to 24 µA
	22 mA to below 220 mA	76 µA to 0.24 mA
	0.22 A to below 2.2 A	0.34 mA to 2.3 mA
	at above 5 kHz to 10 kHz	
	9 µA to below 220 µA	0.14 µA to 0.58 µA
	220 µA to below 2.2 mA	1.7 µA to 5.8 µA
	2.2 mA to below 22 mA	17 µA to 58 µA
	22 mA to below 220 mA	0.17 mA to 0.58 mA
	0.22 A to below 2.2A	2.8 mA to 26 mA
- AC ammeter (clamp-on type)	Calibration for AC current in accordance with in-house procedure LF009 over the following ranges:	
	at 50 Hz	
	1 mA to 10 A	2.6 µA to 26 mA
	Above 10 A to 550 A	26 mA to 1.4 A
	Above 550 A to 1000 A	1.5 A to 2.7 A

@ Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

New Creation Calibration Service Limited
新創校正服務有限公司
Flat F & G, 11/F., Garment Centre, 576-586 Castle Peak Road, Cheung Sha Wan, Kowloon, Hong Kong
香港九龍長沙灣青山道 576-586 號製衣中心 11 樓 F 及 G 室

Calibration Services 校正服務

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED[@] 特定測試或量度的特性[@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Electricity		
- Time and frequency		
- Frequency counter	Calibration for frequency in accordance with in-house procedure LF066 over the following range:	
	5 Hz to 2 MHz	0.021 mHz to 5.8 Hz

[@] Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

Department of Health - Centre for Health Protection, Public Health Laboratory Services Branch, Microbiology Division
衞生署，衞生防護中心，公共衞生化驗服務處，微生物科

ADDRESS : Public Health Laboratory Centre, 382 Nam Cheong Street, Shek Kip Mei, Kowloon, Hong Kong
地址 香港九龍石硤尾，南昌街 382 號，公共衞生檢測中心

ENQUIRY : Dr Amy TAI Lai-shan
查詢 戴麗珊 博士

TELEPHONE : 2319 8570
電話

FAX : 2319 5989
傳真

E-MAIL : so_phls7@dh.gov.hk
電郵

WEBSITE ADDRESS : http://www.chp.gov.hk
網址

CLIENTELE :
服務對象

Medical Testing	: Public and private hospitals and clinics
醫務化驗	: 公營及私營醫院和診所
Proficiency Testing Providers	: National Influenza Centres
能力驗證提供者	: 國家流感中心
	: Local laboratories
	: 本地實驗所

Department of Health - Centre for Health Protection, Public Health Laboratory Services Branch, Microbiology Division
衞生署，衞生防護中心，公共衞生化驗服務處，微生物科

ADDRESS
地址 : 1/F, 2/F & 4/F-10/F, Public Health Laboratory Centre, 382 Nam Cheong Street, Shek Kip Mei, Kowloon, Hong Kong
香港九龍石硤尾，南昌街 382 號，公共衞生檢測中心一樓、二樓及四至十樓

(i) Automated Serology Laboratory (ASE)
(ii) Bacteriology Laboratory (BAC)
(iii) Conventional Microbiology Laboratory (CMI)
(iv) Virology and Serology Laboratory (VSL)
(v) Molecular Laboratory (MOL)
(vi) Mycobacteriology Laboratory (TBL)

LABORATORY DIRECTOR
化驗所主管 : **Pathologist Director 病理學主管:**
Dr Janice LO Yee-chi
羅懿之醫生
MBBS(HK), FRCPA, FHKCPath, FHKAM (Pathology)

PATHOLOGIST IN CHARGE OF THE ACCREDITED DISCIPLINE
負責認可範疇的病理學專科醫生 : Clinical Microbiology and Infection
臨床微生物學及傳染病

Dr Janice LO Yee-chi (Full-time 全職)
羅懿之醫生

ACCREDITED TEST CATEGORY
認可測試類別 : **Medical Testing 醫務化驗**
Clinical Microbiology and Infection 臨床微生物學及傳染病

Proficiency Testing Providers 能力驗證提供者

Department of Health - Centre for Health Protection, Public Health Laboratory Services Branch, Microbiology Division
衞生署，衞生防護中心，公共衞生化驗服務處，微生物科
ASE Laboratory: 1/F, 2/F & 4/F-10/F, Public Health Laboratory Centre, 382 Nam Cheong Street, Shek Kip Mei, Kowloon, HK
香港九龍石硤尾，南昌街 382 號，公共衞生檢測中心一樓、二樓及四至十樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed in the scope below.			
Clinical Microbiology and Infection	**Virology – Serology** Serum	Hepatitis A virus antibody (IgG) by Immunoassay (chemiluminescent label)	Abbott Architect HAVAb-IgG
		Hepatitis B virus antibody: - anti-HBc by Immunoassay (enzyme-based label) (polyvalent)	bioMérieux VIDAS anti-HBc Total II
		- anti-HBcIgM by Immunoassay (chemiluminescent label)	Roche Cobas Anti-HBcIgM
		- anti-HBe by Immunoassay (chemiluminescent label)	Roche Cobas anti-HBe
		Hepatitis C virus antibody by Immunoassay (enzyme-based label)	DiaSorin Murex anti-HCV Version 4.0 Ortho HCV 3.0 Vidas anti-HCV
		Hepatitis E virus antibody (IgG) by Immunoassay (enzyme-based label)	WanTai HEV IgG ELISA assay
		Hepatitis E virus antibody (IgM) by Immunoassay (enzyme-based label)	WanTai HEV IgM ELISA assay
		Hepatitis B virus antigen: - HBeAg by Immunoassay (chemiluminescent label)	Roche Cobas HBeAg
		- HBsAg by Immunoassay (chemiluminescent label)	Roche Elecsys HBsAgII Roche Elecsys HBsAgII Confirmatory
		Immunochromatographic test	Abbott Determine HBsAg 2
		Human immunodeficiency virus antigen and antibody by Immunoassay (chemiluminescent label) Immunoassay (enzyme-based label) Enzyme-linked Fluorescent Assay	Roche Elecsys HIV-DUO assay BioRad Genscreen Ultra HIV Ag-Ab bioMérieux VIDAS HIV DUO Ultra

Department of Health - Centre for Health Protection, Public Health Laboratory Services Branch, Microbiology Division
衞生署，衞生防護中心，公共衞生化驗服務處，微生物科
ASE Laboratory: 1/F, 2/F & 4/F-10/F, Public Health Laboratory Centre, 382 Nam Cheong Street, Shek Kip Mei, Kowloon, HK
香港九龍石硤尾，南昌街 382 號，公共衞生檢測中心一樓、二樓及四至十樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed in the scope below.			
Clinical Microbiology and Infection (cont'd)	**Virology – Serology** (cont'd)		
	Serum (cont'd)	Human immunodeficiency virus antibody by	
		Western Blot	MP Diagnostics HIV Blot 2.2
			MP Diagnostics HIV-2 Blot 1.2
		Immunochromatographic assay	BioRad Geenius HIV 1/2 confirmatory assay
		Human T-cell lymphotropic virus I antibody by	
		Enzyme immunoassay	DiaSorin Murex HTLV I+II
		Western Blot	MP Diagnostics HTLV Blot 2.4
		Rubella virus antibody by	
		Enzyme-linked Fluorescent Assay (ELFA) (IgG)	bioMérieux VIDAS RUB IgG II Assay
		Immunoassay (enzyme-based label) (IgG)	Roche Elecsys Rubella IgG
	Urine	Human immunodeficiency virus I antibody by	
		Western Blot	MP Diagnostics HIV Blot 2.2
	Syphilis serology		
	Serum	*Treponema pallidum* antibody by	
		Immunoassay (chemiluminescent label)	Roche Elecsys Syphilis assay

Department of Health - Centre for Health Protection, Public Health Laboratory Services Branch, Microbiology Division
衞生署，衞生防護中心，公共衞生化驗服務處，微生物科
BAC Laboratory: 1/F, 2/F & 4/F-10/F, Public Health Laboratory Centre, 382 Nam Cheong Street, Shek Kip Mei, Kowloon, HK
香港九龍石硤尾，南昌街 382 號，公共衞生檢測中心一樓、二樓及四至十樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed in the scope below.			
Clinical Microbiology and Infection	**Bacteriology – Culture and sensitivity tests and/or microscopy**		
	Blood	Culture and antimicrobial susceptibility test for pathogens by	
		Aerobic and anaerobic broth culture	Culture: Method as documented in MIC-MTH-BAC-B01 using BD BACTEC FX40 Identification of isolates: Method as documented in MIC-MTH-BAC-ID3 Antimicrobial susceptibility tests: Method as documented in MIC-MTH-BAC-AST
	Blood and bone marrow	Culture for acid-fast bacilli (AFB) by	
		Aerobic broth culture	Method as documented in MIC-MTH-BAC-B01 using BD BACTEC FX40
	CSF	Microscopy for Cell count by Counting chamber Cell morphology by Giemsa stain Bacteria by Gram stain Encapsulated yeast by India ink stain	Method as documented in MIC-MTH-BAC-B02
		Culture and antimicrobial susceptibility test for pathogens by	
		Aerobic, CO_2 and anaerobic culture	Culture: Method as documented in MIC-MTH-BAC-B02 Identification of isolates: Method as documented in MIC-MTH-BAC-ID3 Antimicrobial susceptibility tests: Method as documented in MIC-MTH-BAC-AST
	CSF (Postmortem)	Culture for pathogens by	
		Aerobic and anaerobic broth culture	Culture: Method as documented in MIC-MTH-BAC-B02 using BD BACTEC FX40 Identification of isolates: Method as documented in MIC-MTH-BAC-ID3

Department of Health - Centre for Health Protection, Public Health Laboratory Services Branch, Microbiology Division
衞生署，衞生防護中心，公共衞生化驗服務處，微生物科
BAC Laboratory: 1/F, 2/F & 4/F-10/F, Public Health Laboratory Centre, 382 Nam Cheong Street, Shek Kip Mei, Kowloon, HK
香港九龍石硤尾，南昌街 382 號，公共衞生檢測中心一樓、二樓及四至十樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed in the scope below.			
Clinical Microbiology and Infection (cont'd)	**Bacteriology – Culture and sensitivity tests and/or microscopy** (cont'd)		
	Genital samples	Microscopy for cell morphology and bacteria by Gram stain	Method as documented in MIC-MTH-BAC-GEN
		Culture and antimicrobial susceptibility test for genital pathogens (except *Chlamydia trachomatis*) by Aerobic and CO_2 culture	Culture: Method as documented in MIC-MTH-BAC-GEN Identification of isolates: Method as documented in MIC-MTH-BAC-ID3 Antimicrobial susceptibility tests: Method as documented in MIC-MTH-BAC-AST
	Intrauterine contraceptive device	Culture for Actinomycetes by Anaerobic culture	Method as documented in MIC-MTH-BAC-GEN
	Swabs, inoculated Modified Thayer-Martin Medium	Culture and antimicrobial susceptibility test for *Neisseria gonorrhoeae* by CO_2 culture	Culture and identification: Method as documented in MIC-MTH-BAC-GC1 Antimicrobial susceptibility tests: Method as documented in MIC-MTH-BAC-AST
	Miscellaneous sample (including pus, body fluid, tissue, swabs, etc.)	Microscopy for Bacteria by Gram stain Cell count by counting chamber and Gram stain Cell morphology by Giemsa stain	Method as documented in MIC-MTH-BAC-M01 to M06
	Superficial wound	Culture and antimicrobial susceptibility test for pathogens by Aerobic and CO_2 culture	Culture: Method as documented in MIC-MTH-BAC-M01 Identification of isolates: Method as documented in MIC-MTH-BAC-ID3 Antimicrobial susceptibility tests: Method as documented in MIC-MTH-BAC-AST

Department of Health - Centre for Health Protection, Public Health Laboratory Services Branch, Microbiology Division
衞生署，衞生防護中心，公共衞生化驗服務處，微生物科
BAC Laboratory: 1/F, 2/F & 4/F-10/F, Public Health Laboratory Centre, 382 Nam Cheong Street, Shek Kip Mei, Kowloon, HK
香港九龍石硤尾，南昌街 382 號，公共衞生檢測中心一樓、二樓及四至十樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed in the scope below.			
Clinical Microbiology and Infection (cont'd)	**Bacteriology – Culture and sensitivity tests and/or microscopy** (cont'd)		
	Deep wound and tissue	Culture and antimicrobial susceptibility test for pathogens by Aerobic, CO_2 and anaerobic culture	Culture: Method as documented in MIC-MTH-BAC-M02 Identification of isolates: Method as documented in MIC-MTH-BAC-ID3 Antimicrobial susceptibility tests: Method as documented in MIC-MTH-BAC-AST
	Sterile body fluid	Culture and antimicrobial susceptibility test for pathogens by Aerobic, CO_2 and anaerobic culture	Culture: Method as documented in MIC-MTH-BAC-M03 Identification of isolates: Method as documented in MIC-MTH-BAC-ID3 Antimicrobial susceptibility tests: Method as documented in MIC-MTH-BAC-AST
	Dialysis fluid	Culture and antimicrobial susceptibility test for pathogens by Aerobic, CO_2 and anaerobic culture	Culture: Method as documented in MIC-MTH-BAC-M04 Identification of isolates: Method as documented in MIC-MTH-BAC-ID3 Antimicrobial susceptibility tests: Method as documented in MIC-MTH-BAC-AST
	Eye samples (swab)	Culture and antimicrobial susceptibility test for pathogens by Aerobic and CO_2 culture	Culture: Method as documented in MIC-MTH-BAC-M05 Identification of isolates: Method as documented in MIC-MTH-BAC-ID3 Antimicrobial susceptibility tests: Method as documented in MIC-MTH-BAC-AST

Department of Health - Centre for Health Protection, Public Health Laboratory Services Branch, Microbiology Division
衞生署，衞生防護中心，公共衞生化驗服務處，微生物科
BAC Laboratory: 1/F, 2/F & 4/F-10/F, Public Health Laboratory Centre, 382 Nam Cheong Street, Shek Kip Mei, Kowloon, HK
香港九龍石硤尾，南昌街 382 號，公共衞生檢測中心一樓、二樓及四至十樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed in the scope below.			
Clinical Microbiology and Infection (cont'd)	**Bacteriology – Culture and sensitivity tests and/or microscopy** (cont'd)		
	Eye samples (pus/aspirate, tissue/biopsies, intraocular fluid, other sterile specimens, e.g. optisol)	Culture and antimicrobial susceptibility test for pathogens by Aerobic, CO_2 and anaerobic culture	Culture: Method as documented in MIC-MTH-BAC-M05 Identification of isolates: Method as documented in MIC-MTH-BAC-ID3 Antimicrobial susceptibility tests: Method as documented in MIC-MTH-BAC-AST
	Ear sample (swab)	Culture and antimicrobial susceptibility test for pathogens by Aerobic and CO_2 culture	Culture: Method as documented in MIC-MTH-BAC-M06 Identification of isolates: Method as documented in MIC-MTH-BAC-ID3 Antimicrobial susceptibility tests: Method as documented in MIC-MTH-BAC-AST
	Ear sample (pus and discharge)	Culture and antimicrobial susceptibility test for pathogens by Aerobic, CO_2 and anaerobic culture	Culture: Method as documented in MIC-MTH-BAC-M06 Identification of isolates: Method as documented in MIC-MTH-BAC-ID3 Antimicrobial susceptibility tests: Method as documented in MIC-MTH-BAC-AST
	Upper respiratory tract samples (including throat swab, oral swab, nasal swab/pus/discharges, etc.)	Culture and antimicrobial susceptibility test for upper respiratory tract pathogens by Aerobic, CO_2 and anaerobic culture	Culture: Method as documented in MIC-MTH-BAC-R01 Identification of isolates: Method as documented in MIC-MTH-BAC-ID3 Antimicrobial susceptibility tests: Method as documented in MIC-MTH-BAC-AST

Department of Health - Centre for Health Protection, Public Health Laboratory Services Branch, Microbiology Division
衞生署，衞生防護中心，公共衞生化驗服務處，微生物科
BAC Laboratory: 1/F, 2/F & 4/F-10/F, Public Health Laboratory Centre, 382 Nam Cheong Street, Shek Kip Mei, Kowloon, HK
香港九龍石硤尾，南昌街 382 號，公共衞生檢測中心一樓、二樓及四至十樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed in the scope below.			
Clinical Microbiology and Infection (cont'd)	**Bacteriology – Culture and sensitivity tests and/or microscopy** (cont'd)		
	Nasal swab	Culture and antimicrobial susceptibility test for specific pathogens or those with clinical indications by Aerobic culture ▪ *Staphylococcus aureus* ▪ Methicillin-resistant *Staphylococcus aureus* (MRSA)	Culture: Method as documented in MIC-MTH-BAC-R01 Identification of isolates: Method as documented in MIC-MTH-BAC-ID3
	Nasopharyngeal/pernasal swab	Culture and antimicrobial susceptibility test for specific pathogens or those with clinical indications by Aerobic culture ▪ *Bordetella pertussis*	Antimicrobial susceptibility tests: Method as documented in MIC-MTH-BAC-AST
	Lower respiratory tract samples (including sputum, bronchial aspirate, tracheal aspirate, etc.)	Microscopy for Cell morphology by Gram stain	Culture and microscopy: Method as documented in MIC-MTH-BAC-R01
		Culture and antimicrobial susceptibility test for lower respiratory tract pathogens by Aerobic and CO_2 culture	Identification of isolates: Method as documented in MIC-MTH-BAC-ID3 Antimicrobial susceptibility tests: Method as documented in MIC-MTH-BAC-AST
		Culture for specific pathogens or those with clinical indications by Aerobic culture ▪ *Legionella* species ▪ *Nocardia* species Anaerobic culture ▪ *Actinomyces* species	Culture: Method as documented in MIC-MTH-BAC-R01 Identification of isolates: Method as documented in MIC-MTH-BAC-ID3

Department of Health - Centre for Health Protection, Public Health Laboratory Services Branch, Microbiology Division
衞生署，衞生防護中心，公共衞生化驗服務處，微生物科
BAC Laboratory: 1/F, 2/F & 4/F-10/F, Public Health Laboratory Centre, 382 Nam Cheong Street, Shek Kip Mei, Kowloon, HK
香港九龍石硤尾，南昌街 382 號，公共衞生檢測中心一樓、二樓及四至十樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed in the scope below.			
Clinical Microbiology and Infection (cont'd)	**Bacteriology – Culture and sensitivity tests and/or microscopy** (cont'd)		
	Lower respiratory tract samples (including abscess, biopsy, transtracheal / transbronchial / transthoracic needle aspirates)	Microscopy for Cell morphology and bacteria by Gram stain	Culture and microscopy: Method as documented in MIC-MTH-BAC-R01
		Culture and antimicrobial susceptibility test for lower respiratory tract pathogens by Aerobic, CO_2 and anaerobic culture	Identification of isolates: Method as documented in MIC-MTH-BAC-ID3 Antimicrobial susceptibility tests: Method as documented in MIC-MTH-BAC-AST
	Urine	Culture and antimicrobial sensitivity test for urinary pathogens by Standard loop method and aerobic culture	Culture: Method as documented in MIC-MTH-BAC-U01 Identification of isolates: Method as documented in MIC-MTH-BAC-ID3 Antimicrobial susceptibility tests: Method as documented in MIC-MTH-BAC-AST
	Suprapubic urine	Culture and antimicrobial sensitivity test for specific urinary pathogens or those with clinical indications by Aerobic and anaerobic culture	Culture: Method as documented in MIC-MTH-BAC-U01 Identification of isolates: Method as documented in MIC-MTH-BAC-ID3 Antimicrobial susceptibility tests: Method as documented in MIC-MTH-BAC-AST

Department of Health - Centre for Health Protection, Public Health Laboratory Services Branch, Microbiology Division
衞生署，衞生防護中心，公共衞生化驗服務處，微生物科
BAC Laboratory: 1/F, 2/F & 4/F-10/F, Public Health Laboratory Centre, 382 Nam Cheong Street, Shek Kip Mei, Kowloon, HK
香港九龍石硤尾，南昌街 382 號，公共衞生檢測中心一樓、二樓及四至十樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed in the scope below.			
Clinical Microbiology and Infection (cont'd)	**Bacteriology – Culture and sensitivity tests and/or microscopy** (cont'd) Clinical isolates	Identification of clinical isolates by ▪ Conventional biochemical tests ▪ Nucleic Acid Amplification and DNA Sequencing (Target region: 16S rRNA) ▪ MALDI-TOF Mass Spectrometry	Method as documented in MIC-MTH-BAC-ID3, MIC-MTH-MOL-PCR-NVP and MIC-MTH-MOL-PCR-NVP-OTH-RC2 - DNA sequencing using ABI 3730 or 3130xl Genetic Analyser
		Antimicrobial susceptibility test for clinical isolates by Gradient MIC strip	Antimicrobial susceptibility tests: Method as documented in MIC-MTH-BAC-AST
		Antimicrobial susceptibility test for clinical isolates by broth micro-dilution MIC determination	Antimicrobial susceptibility tests: Method as documented in MIC-MTH-BAC-AST-DIL
	Bacteriology – Serology Urine	*Legionella pneumophila* serogroup 1 Antigen by Immunochromatographic assay	Binax NOW® Legionella Urinary Antigen Test

Department of Health - Centre for Health Protection, Public Health Laboratory Services Branch, Microbiology Division
衞生署，衞生防護中心，公共衞生化驗服務處，微生物科
BAC Laboratory: 1/F, 2/F & 4/F-10/F, Public Health Laboratory Centre, 382 Nam Cheong Street, Shek Kip Mei, Kowloon, HK
香港九龍石硤尾，南昌街 382 號，公共衞生檢測中心一樓、二樓及四至十樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed in the scope below.			
Clinical Microbiology and Infection (cont'd)	**Urinalysis and/or urine microscopy** Urine	Urine formed elements by Microscopic examination with fixed volume in microtitre plate well	Method as documented in MIC-MTH-BAC-U01

Department of Health - Centre for Health Protection, Public Health Laboratory Services Branch, Microbiology Division
衞生署，衞生防護中心，公共衞生化驗服務處，微生物科
CMI Laboratory: 1/F, 2/F & 4/F-10/F, Public Health Laboratory Centre, 382 Nam Cheong Street, Shek Kip Mei, Kowloon, HK
香港九龍石硤尾，南昌街 382 號，公共衞生檢測中心一樓、二樓及四至十樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed in the scope below.			
Clinical Microbiology and Infection	**Bacteriology – Serology**		
	Salmonella isolates	Serotyping of *Salmonella* species by - Slide agglutination test - Microsphere-based molecular serotyping assay Target region: genes involved in the expression of serotype-specific antigens	Method as documented in MIC-MTH-CMI-SE1 xMAP® Salmonella Serotyping Assay Kit as documented in MIC-MTH-SPI-SAL
	Streptococcus pneumoniae isolates	Serotyping of *Streptococcus pneumoniae* by - Capsular reaction test - Multiplex real-time polymerase chain reaction Target region: genes of capsule locus	Method as documented in MIC-MTH-CMI-SE2 Nucleic acid extraction by in-house method as documented in MIC-MTH-MOL-EXT Amplification and detection by ABI 7500 Fast/QS7 *- Primers, probe(s) and test conditions:* In-house method as documented in MIC-MTH-MOL-PCR-NVP and MIC-MTH-MOL-PCR-NVP-GPB-RC1
	Mycology – Culture, ID and Serology		
	Dermatological samples (including skin, nail, hair specimens, etc.)	Culture for dermatophytes and pathogenic mould and yeast by Aerobic culture	Method as documented in MIC-MTH-CMI-MY1
	Respiratory samples	Culture for fungi by Aerobic culture	Method as documented in MIC-MTH-CMI-MY2
	Tissue and body fluid	Culture for fungi by Aerobic culture	Method as documented in MIC-MTH-CMI-MY2
	Fungal isolates	Identification of dermatophytes, pathogenic mould and yeast by conventional identification tests, test kits for fungi and molecular testing using rRNA gene sequencing	Identification of dermatophytes and moulds: Method as documented in MIC-MTH-CMI-MY4 Identification of yeasts: Method as documented in MIC-MTH-CMI-MY5

Department of Health - Centre for Health Protection, Public Health Laboratory Services Branch, Microbiology Division
衞生署，衞生防護中心，公共衞生化驗服務處，微生物科
CMI Laboratory: 1/F, 2/F & 4/F-10/F, Public Health Laboratory Centre, 382 Nam Cheong Street, Shek Kip Mei, Kowloon, HK
香港九龍石硤尾，南昌街 382 號，公共衞生檢測中心一樓、二樓及四至十樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed in the scope below.			
Clinical Microbiology and Infection (cont'd)	**Mycology – Microscopy**		
	Dermatological samples (including skin, nail, hair specimens, etc.)	Microscopy for fungal elements and yeast by KOH with Chlorazol Black smear	Method as documented in MIC-MTH-CMI-MY1
	Respiratory samples	Microscopy for fungal elements and yeast by KOH with Chlorazol Black smear	Method as documented in MIC-MTH-CMI-MY2
	Tissue and body fluid	Microscopy for - fungal elements and yeast by KOH with Chlorazol Black smear - *Cryptococcus neoformans* (only for CSF) by India ink smear	Method as documented in MIC-MTH-CMI-MY2
	Bacteriology – Culture and sensitivity tests		
	Enteric samples (stool and rectal swab)	Culture and antimicrobial susceptibility test for enteric pathogens by Aerobic and microaerophilic culture	Culture: Method as documented in MIC-MTH-CMI-EC1 Identification of isolates: Method as documented in MIC-MTH-BAC-ID3 Antimicrobial susceptibility tests: Method as documented in MIC-MTH-BAC-AST
		Culture and antimicrobial susceptibility test for specific pathogens or those with clinical indications by Aerobic culture ▪ *Escherichia coli* O157 ▪ *Yersinia* species ▪ *Listeria monocytogenes* ▪ *Staphylococcus aureus* ▪ *Bacillus cereus* ▪ *Vancomycin Resistant Enterococcus* ▪ *Carbapenem Resistant Enterobacteriaceae*	Culture: Method as documented in MIC-MTH-CMI-EC1 Identification of isolates: Method as documented in MIC-MTH-BAC-ID3 Antimicrobial susceptibility tests: Method as documented in MIC-MTH-BAC-AST
		Clostridium perfringens spore count by Anaerobic culture	Method as documented in MIC-MTH-CMI-EC1

Department of Health - Centre for Health Protection, Public Health Laboratory Services Branch, Microbiology Division
衞生署，衞生防護中心，公共衞生化驗服務處，微生物科
CMI Laboratory: 1/F, 2/F & 4/F-10/F, Public Health Laboratory Centre, 382 Nam Cheong Street, Shek Kip Mei, Kowloon, HK
香港九龍石硤尾，南昌街 382 號，公共衞生檢測中心一樓、二樓及四至十樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed in the scope below.			
Clinical Microbiology and Infection (cont'd)	**Microbiology – Miscellaneous tests**		
	Autoclave biological indicator	Processing of autoclave biological indicator	Method as documented in MIC-MTH-CMI-SPO
	Parasitology		
	Stool	Microscopy for enteric parasites by - Direct wet smear - Smear after concentration	Method as documented in MIC-MTH-CMI-EP1
		Microscopy for *Cryptosporidium*, *Isospora* and *Cyclospora* oocytes by Modified Ziehl Neelsen with iron haematoxylin staining	Method as documented in MIC-MTH-CMI-EP1
		Identification of intestinal protozoa parasites by Modified Ziehl Neelsen with iron haematoxylin staining	Method as documented in MIC-MTH-CMI-EP1
	Urine and sputum	Microscopy for parasites by Smear after concentration	Method as documented in MIC-MTH-CMI-EP2
	Skin and hair	Microscopy for parasites by Direct smear	Method as documented in MIC-MTH-CMI-EP2
	Blood	Microscopy for Malaria Parasites by - thin smear and Giemsa stain at pH7.2 - thick smear and Giemsa stain at pH7.2	Method as documented in MIC-MTH-CMI-MA1

Department of Health - Centre for Health Protection, Public Health Laboratory Services Branch, Microbiology Division
衞生署，衞生防護中心，公共衞生化驗服務處，微生物科
VSL Laboratory: 1/F, 2/F & 4/F-10/F, Public Health Laboratory Centre, 382 Nam Cheong Street, Shek Kip Mei, Kowloon, HK
香港九龍石硤尾，南昌街 382 號，公共衞生檢測中心一樓、二樓及四至十樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed in the scope below.			
Clinical Microbiology and Infection	**Syphilis serology**		
	Serum	*Treponema pallidum* antibody by	
		- Fluorescent treponemal antibody-absorption test (FTA-ABS)	Immuno Diagnostics AccuDiag FTA-ABS (Syphilis) IFA
		- *Treponema pallidum* Passive Particle Agglutination test (TPPA)	Method as documented in MIC-MTH-ASE-SYP-TPA
	Serum and CSF	Reagin antibodies in response to Treponemal infection by	
		Venereal Disease Research Laboratory test (VDRL)	Method as documented in MIC-MTH-ASE-SYP-VDR
	Virology – Serology		
	Serum	Adenovirus antibody by	
		Complement fixation test	Method as documented in MIC-MTH-CSE-CFT
		Coxsackie B virus antibody by	
		Neutralisation test	Method as documented in MIC-MTH-CSE-ENT
		Cytomegalovirus antibody by	
		Complement fixation test	Method as documented in MIC-MTH-CSE-CFT
		Dengue virus antibody by	
		Haemagglutination inhibition test	Method as documented in MIC-MTH-CSE-DJE-HAI
		Immunoassay (enzyme-based label) (IgM)	InBios DENV Detect IgM Capture ELISA Abbott Bioline Dengue IgM Capture ELISA
		Dengue virus antigen by	
		Immunoassay (NS1 Ag)	BIORAD PLATELIA Dengue NS1 Ag
		Epstein-Barr virus antibody by	
		Indirect immunofluorescence test (anti-EBV Viral Capsid Antigen (VCA) IgG)	Method as documented in MIC-MTH-CSE-EBV using in-house prepared EBV VCA smears
		Indirect immunofluorescence test (anti-EBV Viral Capsid Antigen (VCA) IgA)	Method as documented in MIC-MTH-CSE-EBV using in-house prepared EBV VCA smears
		Indirect immunofluorescence test (anti-EBV Viral Capsid Antigen (VCA) IgM)	Method as documented in MIC-MTH-CSE-EBV using in-house prepared EBV VCA smears

Department of Health - Centre for Health Protection, Public Health Laboratory Services Branch, Microbiology Division
衞生署，衞生防護中心，公共衞生化驗服務處，微生物科
VSL Laboratory: 1/F, 2/F & 4/F-10/F, Public Health Laboratory Centre, 382 Nam Cheong Street, Shek Kip Mei, Kowloon, HK
香港九龍石硤尾，南昌街 382 號，公共衞生檢測中心一樓、二樓及四至十樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed in the scope below.			
Clinical Microbiology and Infection (cont'd)	**Virology – Serology** (cont'd) Serum (cont'd)	Hantavirus antibody by Indirect immunofluorescence test (Polyvalent) Indirect immunofluorescence test (IgM)	 Method as documented in MIC-MTH-CSE-HAN using in-house prepared Hantavirus infected Vero E6 cell smears
		Herpes simplex virus antibody by Complement fixation test	 Method as documented in MIC-MTH-CSE-CFT
		Japanese encephalitis (JE) virus antibody by Haemagglutination inhibition test Immunoassay (enzyme-based label) (IgM)	 Method as documented in MIC-MTH-CSE-DJE-HAI InBios JE Detect IgM Capture ELISA
		Measles virus antibody by Complement fixation test Enzyme-linked Fluorescent Assay (ELFA) (IgG) Immunoassay (enzyme-based label) (IgM)	 Method as documented in MIC-MTH-CSE-CFT bioMérieux VIDAS Measles IgG assay Microimmune Measles IgM Kit
		Mumps virus antibody by Complement Fixation Test Enzyme-linked Fluorescent Assay (ELFA) (IgG) Immunoassay (enzyme-based label) (IgM)	 Method as documented in MIC-MTH-CSE-CFT bioMérieux VIDAS Mumps IgG assay Microimmune Mumps IgM Kit
		Polio virus antibody by Neutralisation test	 Method as documented in MIC-MTH-CSE-ENT

Department of Health - Centre for Health Protection, Public Health Laboratory Services Branch, Microbiology Division
衞生署，衞生防護中心，公共衞生化驗服務處，微生物科
VSL Laboratory: 1/F, 2/F & 4/F-10/F, Public Health Laboratory Centre, 382 Nam Cheong Street, Shek Kip Mei, Kowloon, HK
香港九龍石硤尾，南昌街 382 號，公共衞生檢測中心一樓、二樓及四至十樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed in the scope below.			
Clinical Microbiology and Infection (cont'd)	**Virology – Serology** (cont'd) Serum (cont'd)	Rabies virus antibody by Immunoassay (enzyme-based label) (IgG)	 Platelia Rabies II Kit
		Rubella virus antibody by Haemagglutination inhibition test (IgG) Enzyme-linked Fluorescent Assay (ELFA) (IgM) Immunoassay (enzyme-based label) (IgM)	 Method as documented in MIC-MTH-CSE-RUH bioMérieux VIDAS RUB IgM Assay Microimmune Rubella IgM capture EIA
		Varicella zoster virus antibody by Complement fixation test Enzyme-linked Fluorescent Assay (ELFA) (IgG)	 Method as documented in MIC-MTH-CSE-CFT bioMérieux VIDAS Varicella-zoster IgG Assay

Department of Health - Centre for Health Protection, Public Health Laboratory Services Branch, Microbiology Division
衞生署，衞生防護中心，公共衞生化驗服務處，微生物科
VSL Laboratory: 1/F, 2/F & 4/F-10/F, Public Health Laboratory Centre, 382 Nam Cheong Street, Shek Kip Mei, Kowloon, HK
香港九龍石硤尾，南昌街 382 號，公共衞生檢測中心一樓、二樓及四至十樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed in the scope below.			
Clinical Microbiology and Infection (cont'd)	**Bacteriology – Serology** Serum	*Borrelia burgdorferi* antibody by Western Blot (IgG) Western Blot (IgM)	 Euroimmun Anti-Borrelia EUROLINE-RN-AT (IgG) Euroimmun Anti-Borrelia EUROLINE-RN-AT (IgM)
		Leptospira antibody by Immunoassay (enzyme-based label) (IgM)	 Abbott Panbio Leptospira IgM ELISA
		Leptospira antibody titre by Microscopic agglutination test	 Method as documented in MIC-MTH-CSE-LAT
		Scrub typhus group antibody by Indirect immunofluorescence test	 Method as documented in MIC-MTH-CSE-RIO-IFA using Australian Rickettsial Reference Laboratory IFA slides for anti-*Orientia tsutsugamushi*
		Spotted fever group antibody by Indirect immunofluorescence test	 Method as documented in MIC-MTH-CSE-RIO-IFA using Australian Rickettsial Reference Laboratory IFA slides for anti-Rickettsia species of spotted fever group
		Typhus group antibody by Indirect immunofluorescence test	 Method as documented in MIC-MTH-CSE-RIO-IFA using Australian Rickettsial Reference Laboratory IFA slides for anti-Rickettsia species of Typhus group
	Mycology – Serology Serum	Cryptococcal antigen by - Qualitative latex agglutination test - Quantitative latex agglutination test	 Meridian Bioscience Crytococcal Antigen Latex Agglutination System (CALAS)

Department of Health - Centre for Health Protection, Public Health Laboratory Services Branch, Microbiology Division
衞生署，衞生防護中心，公共衞生化驗服務處，微生物科
VSL Laboratory: 1/F, 2/F & 4/F-10/F, Public Health Laboratory Centre, 382 Nam Cheong Street, Shek Kip Mei, Kowloon, HK
香港九龍石硤尾，南昌街 382 號，公共衞生檢測中心一樓、二樓及四至十樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed in the scope below.			
Clinical Microbiology and Infection (cont'd)	**Parasitology – Serology** Serum	*Toxoplasma gondii* antibody by Enzyme-linked Fluorescent Assay (ELFA) (IgM) Enzyme-linked Fluorescent Assay (ELFA) (IgG) Immunoassay (enzyme-based label) (IgAGM)	 bioMérieux VIDAS TOXO IgM Assay bioMérieux VIDAS TOXO IgG II Assay Euroimmun *Anti-Toxoplasma gondii* Screen ELISA (IgAGM)

Department of Health - Centre for Health Protection, Public Health Laboratory Services Branch, Microbiology Division
衞生署，衞生防護中心，公共衞生化驗服務處，微生物科
VSL Laboratory: 1/F, 2/F & 4/F-10/F, Public Health Laboratory Centre, 382 Nam Cheong Street, Shek Kip Mei, Kowloon, HK
香港九龍石硤尾，南昌街 382 號，公共衞生檢測中心一樓、二樓及四至十樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed in the scope below.			
Clinical Microbiology and Infection (cont'd)	**Viral culture and identification** Miscellaneous specimens	Viruses – detection by culture for characteristic cytopathic effect using tube culture or shell vial culture in appropriate cell lines	Method as documented in MIC-MTH-VIR-CUL-IDV, MIC-MTH-VIR-CUL-FLU and MIC-MTH-VIR-CUL-CMV

Department of Health - Centre for Health Protection, Public Health Laboratory Services Branch, Microbiology Division
衞生署，衞生防護中心，公共衞生化驗服務處，微生物科
MOL Laboratory: 1/F, 2/F & 4/F-10/F, Public Health Laboratory Centre, 382 Nam Cheong Street, Shek Kip Mei, Kowloon, HK
香港九龍石硤尾，南昌街 382 號，公共衞生檢測中心一樓、二樓及四至十樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed in the scope below.			
Clinical Microbiology and Infection	**Molecular diagnosis** Respiratory specimens	Detection of *Chlamydia pneumoniae, Chlamydia psittaci* and *Legionella pneumophila* Serogroup 1 by Multiplex real-time PCR Target region: CPN: MOMP gene Target region: CPS: 16S rRNA Target region: SG1: LPS gene	Multiplex real-time PCR using Roche LightCycler 480 - *Primers, probe(s) and test conditions:* In-house method as documented in MIC-MTH-MOL-PCR-NVP and MIC-MTH-MOL-PCR-ATP-RC1
		Detection of Picornavirus, Enterovirus type 71 and bovine viral diarrhoea virus (BVDV) by Respiratory Multiplex PCR F Target region: Picornavirus: 5'UTR Target region: EV71: VP1 Target region: BVDV: Npro	Multiplex one step real-time RT PCR using ABI QuantStudio 7 Flex - *Primers, probe(s) and test conditions:* In-house method as documented in MIC-MTH-MOL-PCR-VLS and MIC-MTH-MOL-PCR-RVM-RC1
		Detection of Influenza A, B, C and Parainfluenza 1 by Respiratory Multiplex PCR A Target region: Influenza A: M gene Target region: Influenza B: HA gene Target region: Influenza C: NP gene Target region: Parainfluenza 1: HN gene	Multiplex one step real-time RT PCR using Roche LightCycler 480 - *Primers, probe(s) and test conditions:* In-house method as documented in MIC-MTH-MOL-PCR-VLS and MIC-MTH-MOL-PCR-RVM-RC1
		Detection of Adenovirus, Influenza A H1pdm09 virus, Influenza A H3 and Parainfluenza 3 by Respiratory Multiplex PCR B Target region: Adenovirus: hexon gene Target region: Influenza A H1 pdm09: HA gene Target region: Influenza A H3: HA gene Target region: Parainfluenza 3: HN gene	Multiplex one step real-time RT PCR using Roche LightCycler 480 - *Primers, probe(s) and test conditions:* In-house method as documented in MIC-MTH-MOL-PCR-VLS and MIC-MTH-MOL-PCR-RVM-RC1

Department of Health - Centre for Health Protection, Public Health Laboratory Services Branch, Microbiology Division
衞生署，衞生防護中心，公共衞生化驗服務處，微生物科
MOL Laboratory: 1/F, 2/F & 4/F-10/F, Public Health Laboratory Centre, 382 Nam Cheong Street, Shek Kip Mei, Kowloon, HK
香港九龍石硤尾，南昌街 382 號，公共衞生檢測中心一樓、二樓及四至十樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed in the scope below.			
Clinical Microbiology and Infection (cont'd)	**Molecular diagnosis** (cont'd) Respiratory specimens (cont'd)	Detection of Human metapneumovirus, Respiratory Syncytial virus, Parainfluenza 2 and Parainfluenza 4 by Respiratory Multiplex PCR C Target region: Human metapneumovirus: N gene Target region: RSV: N gene Target region: Parainfluenza 2: P gene Target region: Parainfluenza 4: NP gene	Multiplex one step real-time RT PCR using Roche LightCycler 480 *- Primers, probe(s) and test conditions:* In-house method as documented in MIC-MTH-MOL-PCR-VLS and MIC-MTH-MOL-PCR-RVM-RC1
		Adenovirus type 1, 2 and 3 – Typing by Real-time polymerase chain reaction Target region: Hexon gene	Multiplex one step real-time PCR using Qiagen Rotor-Gene Q *- Primers, probe(s) and test conditions:* In-house method as documented in MIC-MTH-MOL-PCR-VLS and MIC-MTH-MOL-PCR-ADN-RC1
		Adenovirus type 4, 5 and 7 – Typing by Real-time polymerase chain reaction Target region: Hexon gene	Multiplex one step real-time PCR using Qiagen Rotor-Gene Q *- Primers, probe(s) and test conditions:* In-house method as documented in MIC-MTH-MOL-PCR-VLS and MIC-MTH-MOL-PCR-ADN-RC1
		Rhinovirus – detection by Real-time reverse transcription polymerase chain reaction Target region: 5' UTR	Real-time RT PCR using Roche LightCycler 480 *- Primers, probe(s) and test conditions:* In-house method as documented in MIC-MTH-MOL-PCR-VLS and MIC-MTH-MOL-PCR-PIC-RC1
	Serum	Cytomegalovirus – detection by Real-time polymerase chain reaction Target region: MIE gene	PCR using Qiagen Rotor-Gene Q *- Primers, probe(s) and test conditions:* Watzinger F et al. Real-time Quantitative PCR Assays for Detection and Monitoring of Pathogenic Human Virus in Immuno-suppressed Paediatric Patients, Journal of Microbiology 2004; 42; 5189-5198.

Department of Health - Centre for Health Protection, Public Health Laboratory Services Branch, Microbiology Division

衞生署，衞生防護中心，公共衞生化驗服務處，微生物科

MOL Laboratory: 1/F, 2/F & 4/F-10/F, Public Health Laboratory Centre, 382 Nam Cheong Street, Shek Kip Mei, Kowloon, HK
香港九龍石硤尾，南昌街 382 號，公共衞生檢測中心一樓、二樓及四至十樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed in the scope below.			
Clinical Microbiology and Infection (cont'd)	**Molecular diagnosis** (cont'd) Serum, faecal specimens, respiratory specimens, CSF	Enterovirus Type 71 (EV71) – detection by One-step real-time reverse transcription polymerase chain reaction Target region: VP1 gene	One-step real-time RT PCR using ABI QuantStudio 7 Flex and Roche LightCycler 480 *- Primers, probe(s) and test conditions:* In-house method as documented in MIC-MTH-MOL-PCR-VLS and MIC-MTH-MOL-PCR-PIC-RC1

Department of Health - Centre for Health Protection, Public Health Laboratory Services Branch, Microbiology Division
衞生署，衞生防護中心，公共衞生化驗服務處，微生物科
MOL Laboratory: 1/F, 2/F & 4/F-10/F, Public Health Laboratory Centre, 382 Nam Cheong Street, Shek Kip Mei, Kowloon, HK
香港九龍石硤尾，南昌街 382 號，公共衞生檢測中心一樓、二樓及四至十樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed in the scope below.			
Clinical Microbiology and Infection (cont'd)	**Molecular diagnosis** (cont'd) Respiratory specimens	Influenza A virus – detection by Real-time reverse transcription polymerase chain reaction Target region: M gene	Real-time RT PCR using Roche LightCycler 480 - *Primers, probe(s) and test conditions:* WHO information for Molecular diagnosis of influenza-update
		Influenza A virus subtype H5 – detection by Real-time reverse transcription polymerase chain reaction Target region: H5 gene	Real-time RT PCR using Roche LightCycler 480 - *Primers, probe(s) and test conditions:* In-house method as documented in MIC-MTH-MOL-PCR-VLS and MIC-MTH-MOL-PCR-FLU-RC1
		Influenza A virus subtype H1/H3 – detection by Multiplex real-time one-step RT-PCR Target region: H1 and H3 genes	Real-time RT PCR using Roche LightCycler 480 - *Primers, probe(s) and test conditions:* In-house method as documented in MIC-MTH-MOL-PCR-VLS and MIC-MTH-MOL-PCR-FLU-RC1
		Influenza A virus subtype H7 and N9 – detection by Real-time reverse transcription polymerase chain reaction Target region: H7 and N9 genes	Real-time RT PCR using Roche LightCycler 480 - *Primers, probe(s) and test conditions:* In-house method as documented in MIC-MTH-MOL-PCR-VLS and MIC-MTH-MOL-PCR-FLU-RC1
		Influenza A virus subtype H9 – detection by Real-time reverse transcription polymerase chain reaction Target region: H9 gene	Real-time RT PCR using Roche LightCycler 480 - *Primers, probe(s) and test conditions:* In-house method as documented in MIC-MTH-MOL-PCR-VLS and MIC-MTH-MOL-PCR-FLU-RC1
	Faecal specimens	Norovirus/rotavirus – detection by Real-time reverse transcription polymerase chain reaction Target region: 5' of the VP1 capsid region	Real-time RT PCR using Roche LightCycler 480 - *Primers, probe(s) and test conditions:* In-house method as documented in MIC-MTH-MOL-PCR-VLS and MIC-MTH-MOL-PCR-VGE-RC1

Department of Health - Centre for Health Protection, Public Health Laboratory Services Branch, Microbiology Division
衞生署，衞生防護中心，公共衞生化驗服務處，微生物科
MOL Laboratory: 1/F, 2/F & 4/F-10/F, Public Health Laboratory Centre, 382 Nam Cheong Street, Shek Kip Mei, Kowloon, HK
香港九龍石硤尾，南昌街 382 號，公共衞生檢測中心一樓、二樓及四至十樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed in the scope below.			
Clinical Microbiology and Infection (cont'd)	**Molecular diagnosis** (cont'd) Serum, plasma and urine	Zika virus – detection and confirmation by Real-time reverse transcription polymerase chain reaction Target region: Envelope protein gene (detection) NS3 and 2K (confirmation)	Real-time RT PCR using Roche LightCycler 480 - *Primers, probe(s) and test conditions:* In-house method as documented in MIC-MTH-MOL-PCR-VLS and MIC-MTH-MOL-PCR-ARB-RC1
	Serum	Parvovirus B19 – detection by Real-time polymerase chain reaction Target region: VP2 gene	Real-time RT PCR using Qiagen Rotor-Gene Q - *Primers, probe(s) and test conditions:* In-house method as documented in MIC-MTH-MOL-PCR-VLS and MIC-MTH-MOL-PCR-MIS-RC1
		Rickettsia – detection by Polymerase chain reaction Target region: Rickettsial 16S ribosomal RNA	PCR - *Primer and test conditions*: Breitschwerdt EB et al. Efficacy of Doxycycline, Azithromycin, or Trovafloxacin for treatment of experimental Rocky Mountain Spotted Fever in dogs. Antimicrobial Agents and Chemotherapy 1999; 43: 813-821.
	Respiratory specimens	Middle East Respiratory Syndrome - Coronavirus – detection by Real-time reverse transcription polymerase chain reaction Target region: ORF-1b / upE	Real-time RT PCR using Roche LightCycler 480 - *Primers, probe(s) and test conditions:* In-house method as documented in MIC-MTH-MOL-PCR-VLS and MIC-MTH-MOL-PCR-COR-RC1
		Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) - detection by Real-time reverse transcription polymerase chain reaction Target region: RdRp	Real-time RT PCR using Roche LightCycler 480 - *Primers, probe(s) and test conditions:* In-house method as documented in MIC-MTH-MOL-PCR-VLS and MIC-MTH-MOL-PCR-COR-RC1

Department of Health - Centre for Health Protection, Public Health Laboratory Services Branch, Microbiology Division
衞生署，衞生防護中心，公共衞生化驗服務處，微生物科
MOL Laboratory: 1/F, 2/F & 4/F-10/F, Public Health Laboratory Centre, 382 Nam Cheong Street, Shek Kip Mei, Kowloon, HK
香港九龍石硤尾，南昌街 382 號，公共衞生檢測中心一樓、二樓及四至十樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed in the scope below.			
Clinical Microbiology and Infection (cont'd)	**Molecular diagnosis** (cont'd) Respiratory specimens (cont'd)	Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) - detection by Urbani-aaa + NCOV2 Real-time reverse transcription polymerase chain reaction Target region: RdRp	Real-time RT PCR using Roche LightCycler 480 *- Primers, probe(s) and test conditions:* In-house method as documented in MIC-MTH-MOL-PCR-VLS and MIC-MTH-MOL-PCR-COR-RC1
		Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) - detection by NCOV10 Real-time reverse transcription polymerase chain reaction Target region: RdRp	Real-time RT PCR using Roche LightCycler 480 *- Primers, probe(s) and test conditions:* In-house method as documented in MIC-MTH-MOL-PCR-VLS and MIC-MTH-MOL-PCR-COR-RC1

Department of Health - Centre for Health Protection, Public Health Laboratory Services Branch, Microbiology Division
衞生署，衞生防護中心，公共衞生化驗服務處，微生物科
MOL Laboratory: 1/F, 2/F & 4/F-10/F, Public Health Laboratory Centre, 382 Nam Cheong Street, Shek Kip Mei, Kowloon, HK
香港九龍石硤尾，南昌街 382 號，公共衞生檢測中心一樓、二樓及四至十樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed in the scope below.			
Clinical Microbiology and Infection (cont'd)	**Molecular diagnosis** (cont'd) Stool	Shiga toxin gene – detection by Real-time polymerase chain reaction Target region: *stx1* and *stx2*	Real-time PCR using ABI 7500 Fast / QuantStudio 7 - *Primers, probe(s) and test conditions:* In-house method as documented in MIC-MTH-MOL-PCR-NVP and MIC-MTH-MOL-PCR-NVP-GN1-RC1
	Nasopharyngeal/pernasal swab	*Bordetella pertussis* – detection by Real-time polymerase chain reaction Target region: IS*481* and *ptp*	Real-time PCR using ABI 7500 Fast / QuantStudio 7 - *Primers, probe(s) and test conditions:* In-house method as documented in MIC-MTH-MOL-PCR-NVP and MIC-MTH-MOL-PCR-NVP-GN2-RC1
	Bacterial isolates	Community-associated methicillin resistant *Staphylococcus aureus* – detection by Real-time polymerase chain reaction Target region: mecA and pvl	Nucleic acid extraction by in-house method as documented in MIC-MTH-MOL-EXT Amplification and detection by ABI 7500 Fast/QS7 - *Primers, probe(s) and test conditions:* In-house method as documented in MIC-MTH-MOL-PCR-NVP and MIC-MTH-MOL-PCR-NVP-GPB-RC1
	Genital, vesicular and skin specimens	Detection of Monkeypox virus by Real-time polymerase chain reaction Target region: B7R gene	PCR using Roche LightCycler 480 - *Primers, probe(s) and test conditions:* In-house method as documented in MIC-MTH-MOL-PCR-SPZ

Department of Health - Centre for Health Protection, Public Health Laboratory Services Branch, Microbiology Division
衞生署，衞生防護中心，公共衞生化驗服務處，微生物科
MOL Laboratory: 1/F, 2/F & 4/F-10/F, Public Health Laboratory Centre, 382 Nam Cheong Street, Shek Kip Mei, Kowloon, HK
香港九龍石硤尾，南昌街 382 號，公共衞生檢測中心一樓、二樓及四至十樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed in the scope below.			
Clinical Microbiology and Infection (cont'd)	**Molecular diagnosis** (cont'd) Male urethral swab	*Chlamydia trachomatis* – detection by Nucleic acid amplification and hybridization, qualitative Target region: 23S rRNA	Nucleic acid extraction, amplification and detection by PANTHER using APTIMA Combo 2 Assay
		Neisseria gonorrhoeae – detection by Nucleic acid amplification and hybridization, qualitative Target region: 16S rRNA	Nucleic acid extraction, amplification and detection by PANTHER using APTIMA Combo 2 Assay
	Urine and genital specimens	*Chlamydia trachomatis* / *Neisseria gonorrhoeae* detection by Real-time polymerase chain reaction, qualitative Target region: cryptic plasmid and ompA gene for *Chlamydia trachomatis* and DR-9 region for *Neisseria gonorrhoeae*	Nucleic acid extraction, amplification and detection by COBAS 6800 using cobas CT/NG assay
	Respiratory specimens	Adenovirus typing by Polymerase chain reaction followed by DNA sequencing Target region: Hexon gene	PCR and sequencing of PCR product - *Primer and test conditions:* Crawford-Miksza L K et al. Strain variation in Adenovirus serotypes 4 and 7a causing acute respiratory disease. Journal of Clinical Microbiology 1999; 37: 1107-1112. - DNA sequencing using ABI 3730 or 3130xl Genetic Analyser

Department of Health - Centre for Health Protection, Public Health Laboratory Services Branch, Microbiology Division
衞生署，衞生防護中心，公共衞生化驗服務處，微生物科
MOL Laboratory: 1/F, 2/F & 4/F-10/F, Public Health Laboratory Centre, 382 Nam Cheong Street, Shek Kip Mei, Kowloon, HK
香港九龍石硤尾，南昌街 382 號，公共衞生檢測中心一樓、二樓及四至十樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed in the scope below.			
Clinical Microbiology and Infection (cont'd)	**Molecular diagnosis** (cont'd) Serum, faecal specimens, respiratory specimens, CSF	Enterovirus typing by Reverse transcription polymerase chain reaction and DNA sequencing Target region: VP1 gene	RT PCR and sequencing of PCR product - *Primer and test conditions*: Oberste, M.S., K. Maher, D.R. Kilpatrick, M.R. Flemister, B.A. Brown, and M.A.Pallansch. Typing of human enteroviruses by partial sequencing of VP1. J Clin. Microbiol. 1999; 37:1288-1293. - DNA sequencing using ABI 3730 or 3130xl Genetic Analyser
	Serum and plasma	Hepatitis C virus – detection and genotyping by Reverse Transcription Nested Polymerase Chain Reaction and sequencing of PCR Product Target region: 5' UTR (untranslated region)	Nested RT PCR and sequencing - *Primer and test conditions*: Mellor J, et al**.** Analysis of a new hepatitis C virus type and its phylogenetic relationship to existing variants. Journal of General Virology 1992;73: 1131-1141. - DNA sequencing using ABI 3730 or 3130xl Genetic Analyser
		Target region: NS5B gene	Conventional RT-PCR and sequencing - *Primer and test conditions*: In-house method as documented in MIC-MTH-MOL-PCR-VLS and MIC-MTH-MOL-PCR-HEP-RC1 - DNA sequencing using ABI 3730 Genetic Analyser

Department of Health - Centre for Health Protection, Public Health Laboratory Services Branch, Microbiology Division
衞生署，衞生防護中心，公共衞生化驗服務處，微生物科
MOL Laboratory: 1/F, 2/F & 4/F-10/F, Public Health Laboratory Centre, 382 Nam Cheong Street, Shek Kip Mei, Kowloon, HK
香港九龍石硤尾，南昌街 382 號，公共衞生檢測中心一樓、二樓及四至十樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed in the scope below.			
Clinical Microbiology and Infection (cont'd)	**Molecular diagnosis** (cont'd) Plasma	Human immunodeficiency virus - antiviral resistance testing by DNA sequencing Target region: pol region of HIV-1 genome	RT PCR: - *Primer and test conditions*: In-house method as documented in MIC-MTH-MOL-PCR-VLS and MIC-MTH-MOL-PCR-HIV-RC1 - DNA sequencing using ABI 3730 or 3130xl Genetic Analyser
	Plasma and serum	Hepatitis B virus viral load - quantitative determination of DNA by Real-time polymerase chain reaction Target region: pre-core and core gene	Nucleic acid extraction, amplification and detection by COBAS 6800 using cobas® HBV
		Hepatitis C virus viral load - quantitative determination of RNA by Real-time reverse transcription polymerase chain reaction Target region: 5'NTR	Nucleic acid extraction, amplification and detection by COBAS 6800 using cobas® HCV
	Plasma	Human immunodeficiency virus viral load - quantitative determination of RNA by Real-time reverse transcription polymerase chain reaction Target region: gag and LTR regions of HIV-1	Nucleic acid extraction, amplification and detection by COBAS 6800 using cobas® HIV-1

Department of Health - Centre for Health Protection, Public Health Laboratory Services Branch, Microbiology Division

衞生署，衞生防護中心，公共衞生化驗服務處，微生物科

TBL Laboratory: 1/F, 2/F & 4/F-10/F, Public Health Laboratory Centre, 382 Nam Cheong Street, Shek Kip Mei, Kowloon, HK
香港九龍石硤尾，南昌街 382 號，公共衞生檢測中心一樓、二樓及四至十樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed in the scope below.			
Clinical Microbiology and Infection	**Mycobacteriology – Microscopy**		
	Respiratory and miscellaneous specimens	Microscopy for acid-fast bacilli (AFB) by - Auramine O fluorescent stain - Ziehl-Neelsen stain	Method as documented in MIC-MTH-TBL-AFS
	Mycobacteriology – Culture		
	Respiratory specimens and urine	Culture for acid-fast bacilli (AFB) by Aerobic broth culture	Method as documented in MIC-MTH-TBL-CUL using BACTEC MGIT 960
	Miscellaneous specimens	Culture for acid-fast bacilli (AFB) by Aerobic broth culture	Method as documented in MIC-MTH-TBL-CUL using BACTEC MGIT 960
	Stool	Culture for acid-fast bacilli (AFB) by Aerobic broth culture	Method as documented in MIC-MTH-TBL-CUL using BACTEC MGIT 960

Department of Health - Centre for Health Protection, Public Health Laboratory Services Branch, Microbiology Division
衛生署，衛生防護中心，公共衛生化驗服務處，微生物科
TBL Laboratory: 1/F, 2/F & 4/F-10/F, Public Health Laboratory Centre, 382 Nam Cheong Street, Shek Kip Mei, Kowloon, HK
香港九龍石硤尾，南昌街 382 號，公共衛生檢測中心一樓、二樓及四至十樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed in the scope below.			
Clinical Microbiology and Infection (cont'd)	**Mycobacteriology – Identification and/or sensitivity test** *Mycobacterium* isolates	Identification of *Mycobacterium* species in positive cultures by	
		Conventional identification method	Method as documented in MIC-MTH-TBL-MID
		Immunochromatographic method	Abbott BIOLINE TB Ag MPT 64 Rapid kit
		MALDI-TOF Mass Spectrometry	Method as documented in MIC-MTH-BAC-BBT
		Molecular method	
		- Polymerase chain reaction (PCR) and real-time polymerase chain reaction for differentiation of *Mycobacterium tuberculosis* complex Target region: region of difference [RD]	Nucleic acid extraction by in-house method as documented in MIC-MTH-TBL-MID Amplification and detection by QS7 - *Primer and test conditions:* In-house method as documented in MIC-MTH-MOL-PCR-NVP and MIC-MTH-MOL-PCR-NVP-OTH-RC1
		- Real-time polymerase chain reaction Target region: 16S rDNA and HSP	Nucleic acid extraction by in-house method as documented in MIC-MTH-TBL-MID Amplification and detection by ABI 7500 Fast System/ QS7 - *Primer, probe and test conditions:* In-house method as documented in MIC-MTH-MOL-PCR-NVP and MIC-MTH-MOL-PCR-NVP-OTH-RC1

Department of Health - Centre for Health Protection, Public Health Laboratory Services Branch, Microbiology Division
衞生署，衞生防護中心，公共衞生化驗服務處，微生物科
TBL Laboratory: 1/F, 2/F & 4/F-10/F, Public Health Laboratory Centre, 382 Nam Cheong Street, Shek Kip Mei, Kowloon, HK
香港九龍石硤尾，南昌街 382 號，公共衞生檢測中心一樓、二樓及四至十樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed in the scope below.			
Clinical Microbiology and Infection (cont'd)	**Mycobacteriology – Identification and/or sensitivity test** (cont'd)		
	M. tuberculosis complex isolates	Antimicrobial susceptibility test by - MGIT method	Methods as documented in MIC-MTH-TBL-TST
	M. kansasii / M. marinum Isolates / Mycobacterium Rapid growers / *M. avium* complex isolates / aerobic actinomycetes	Antimicrobial susceptibility test by SENSITITRE - Rapidly growing nontuberculous Mycobacteria MIC plate SENSITITRE - Slowly growing nontuberculous Mycobacteria MIC plate	Methods as documented in MIC-MTH-TBL-NST

Department of Health - Centre for Health Protection, Public Health Laboratory Services Branch, Microbiology Division
衞生署，衞生防護中心，公共衞生化驗服務處，微生物科
Public Health Laboratory Centre, 382 Nam Cheong Street, Shek Kip Mei, Kowloon, HK
香港九龍石硤尾，南昌街 382 號，公共衞生檢測中心

PROVISION OF PROFICIENCY TESTING SCHEMES 提供能力驗證

PROFICIENCY TESTING SCHEME AND ITEM 能力驗證計劃及項目	MEASURAND OR CHARACTERISTIC MEASURED 測試參數或特質	PROFICIENCY TESTING SCHEME PROCEDURE# 能力驗證計劃程序
Proficiency Testing Scheme for Medical Testing:		
WHO Influenza viruses / SARS-CoV-2 • Dried RNA (Influenza viruses only) • Inactivated viruses	Detection of Influenza viruses or SARS-CoV-2 by Polymerase chain reaction	As documented in MIC-PTP-MOL-WHO-COM and MIC-PTP-MOL-WHO-PRE
Acid Fast Bacillus Microscopy (AFB) • Fixed sputum smear	Detection of acid fast bacillus by Acid fast staining and microscopic examination	As documented in MIC-PTP-TBL-AFB-PRE
Bacteriology (BAC) • Simulated clinical specimens (lyophilized cultures)	Identification of potential pathogens and antimicrobial susceptibility testing	As documented in MIC-PTP-BAC-BAC-PRE
Blood-borne Parasite Detection (BPD) • Fixed blood smears or blood specimens	Detection of blood-borne parasite and reporting of parasite density by Microscopic examination	As documented in MIC-PTP-CMI-BPD-PRE
Microbial Serology (MS) • Simulated plasma or serum specimens		As documented in MIC-PTP-ASE-MIS-PRE
a. Syphilis Serology (SSY)	*Treponema pallidum* total antibody by Enzyme immunoassay	
b. Human immunodeficiency virus (HIV) Serology (SHV)	HIV antibody, qualitative	
c. Hepatitis B virus (HBV) Serology (SHB)	HBsAg, qualitative	
d. Hepatitis C virus (HCV) Serology (SHC)	HCV antibody, qualitative	
Viral Nucleic Acid Testing (VNAT) • Simulated plasma specimens		
Hepatitis B Virus DNA Quantification (HBQ)	HBV DNA quantification by Real-time polymerase chain reaction	As documented in MIC-PTP-SPI-NAT-PRE

INCLUDING PROCEDURES FOR DETERMINING ASSIGNED VALUES AND THE UNCERTAINTY

Diagnostix Pathology Laboratories Ltd.
陳健慧病理診斷有限公司

ADDRESS : Histopathology Unit, 1 Old Peak Road, Hong Kong
地址 香港舊山頂道 1 號，嘉諾撒醫院， 組織病理部

ENQUIRY : Dr YAU Tsz-wai
查詢 邱旨蔚醫生

TELEPHONE : 2526 0867
電話

FAX : 2521 7081
傳真

E-MAIL : yautsw@gmail.com
電郵

WEBSITE ADDRESS : http://www.diagnostix.hk
網址

CLIENTELE : Private hospitals and clinics
服務對象 私營醫院和診所

Diagnostix Pathology Laboratories Ltd.
陳健慧病理診斷有限公司

ADDRESS
地址 : Histopathology Unit, 1 Old Peak Road, Hong Kong
香港舊山頂道 1 號，嘉諾撒醫院， 組織病理部

LABORATORY DIRECTOR
化驗所主管 : **Pathologist Director 病理學主管:**
Dr CHAN Keeng-wai
陳健慧醫生
MBBS (Adelaide), FRCPath, FRCPA, FHKCPath, FHKAM (Pathology)

PATHOLOGIST IN CHARGE OF THE ACCREDITED DISCIPLINE
負責認可範疇的病理學專科醫生 : Anatomical Pathology 解剖病理學
Dr CHAN Keeng-wai 陳健慧醫生 (Full-time 全職)

ACCREDITED TEST CATEGORY
認可測試類別 : **Medical Testing 醫務化驗**
Anatomical Pathology 解剖病理學

Diagnostix Pathology Laboratories Ltd.
陳健慧病理診斷有限公司
Histopathology Unit, 1 Old Peak Road, Hong Kong
香港舊山頂道 1 號，嘉諾撒醫院，組織病理部

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology	**Cytopathology**		
	Gynaecological specimens	Gynaecological cytology examination by Papanicolaou staining	Specimen preparation and staining (automated and manual method): Method as documented in COM-02 Conventional smear + Papanicolaou staining ThinPrep + Papanicolaou staining Examination: ThinPrep Imaging System and manual method
	Non-gynaecological specimens	Non-gynaecological cytology examination by H&E, Papanicolaou and special staining	Specimen preparation and routine staining (manual method): Method as documented in COM-02 Diff-Quik Haematoxylin and Eosin stain Papanicolaou stain Special Staining (manual method): Method as documented in COM-02 and HOM-05 Crystals by wet smear Glycol groups by Periodic Acid-Schiff (PAS) (digestion) May Grunwald-Giemsa stain Perl's Prussian Blue (Iron stain) Special staining (manual method) for infectious agents: Method as documented in HOM-05 Acid-fast bacilli by Ziehl-Neelsen Fungi by Grocott's Methenamine Silver
	Fine needle aspirates	FNA cytology examination by H&E, Papanicolaou and May Grunwald-Giemsa staining	Specimen preparation and routine staining (manual method): Method as documented in COM-03 Diff-Quik May Grunwald-Giemsa stain Papanicolaou stain
	Histopathology		
	Surgical pathology and cytological specimens	Histology examination by H&E and special staining	Specimen preparation and routine staining (automated and manual method): Method as documented in HOM-01, HOM-02, HOM-03, HOM-04 and HOM-05 Haematoxylin and Eosin staining

Diagnostix Pathology Laboratories Ltd.
陳健慧病理診斷有限公司
Histopathology Unit, 1 Old Peak Road, Hong Kong
香港舊山頂道 1 號，嘉諾撒醫院，組織病理部

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology (cont'd)	**Histopathology (cont'd)** Surgical pathology and cytological specimens (cont'd)	Histology examination by H&E and special staining (cont'd)	Special staining (manual method): Method as documented in HOM-05 Acidic mucins by Alcian Blue pH 0.2-3.1; or Southgate Mucicarmine Amyloid by Highman's Congo Red; or Toluidine Blue Argyrophil cells by Grimelius' method Basement membrane by Periodic acid-Silver-Methenamine (PASM) Calcium by von Kossa Collagen and fibrin by Gomori rapid one step Trichome Connective tissues by van Gieson's Stain Elastic fibres by Verhoeff's technique Glycol groups by Periodic Acid-Schiff (PAS) (digestion) Haemosiderin by Perls' Prussian Blue Lipids by Oil Red O Melanin by Schmorl's reaction Muscle striations and neuralgia by Mallory's phosphotungstic acid haematoxylin (PTAH) Reticulin by Gordon & Sweet's method (modified) Special staining (manual method) for infectious agents: Method as documented in HOM-05 Acid-fast bacilli by Ziehl-Neelsen Bacteria by Gram stain Fungi by Grocott's Methenamine Silver Leprosy bacilli by Wade-Fite technique Parasites by Giemsa stain Spirochetes by Warthin-Starry method
	Intra-operative frozen section for fresh tissue specimens and biopsies	Histology examination by H&E and Toluidine Blue staining	Specimen preparation and routine staining (manual method): Method as documented in HOM-07 Diff-Quik Haematoxylin and Eosin Toluidine Blue
	Renal and Skin Biopsies	Immunofluorescence examination by Manual method	Specimen preparation and staining: Method as documented in HOM-08 IgA / IgM / IgG / Complement 3 / Fibrinogen

Department of Health - Centre for Health Protection, Public Health Laboratory Services Branch, Histopathology and Cytology Division
衛生署，衛生防護中心，公共衛生化驗服務處，組織病理及細胞科

ADDRESS : 6/F, Public Health Laboratory Centre, 382 Nam Cheong Street, Shek Kip Mei, Kowloon, Hong Kong
地址 香港九龍石硤尾，南昌街 382 號，公共衛生檢測中心六樓

ENQUIRY : Dr CHEUNG Kin-fai
查詢 張健輝博士

TELEPHONE : 2319 8382
電話

FAX : 2776 1045
傳真

E-MAIL : so_phls12@dh.gov.hk
電郵

WEBSITE ADDRESS : http://www.chp.gov.hk
網址

CLIENTELE : Public and private hospitals and clinics
服務對象 公營及私營醫院和診所

Department of Health - Centre for Health Protection, Public Health Laboratory Services Branch, Histopathology and Cytology Division
衞生署，衞生防護中心，公共衞生化驗服務處，組織病理及細胞科

ADDRESS
地址 : 6/F, Public Health Laboratory Centre, 382 Nam Cheong Street, Shek Kip Mei, Kowloon, Hong Kong
香港九龍石硤尾，南昌街 382 號，公共衞生檢測中心六樓
(i) Cytopathology Laboratory : 6/F
(ii) Histopathology Laboratory : 6/F
(iii) Molecular Anatomical Pathology Laboratory: 5/F

LABORATORY DIRECTOR
化驗所主管 : **Pathologist Director 病理學主管:**
Dr JONG Kwok-kwan
莊國坤醫生
MBBS(HK), FHKCPath, FHKAM (Pathology)

PATHOLOGIST IN CHARGE OF THE ACCREDITED DISCIPLINE
負責認可範疇的病理學專科醫生 :
Anatomical Pathology 解剖病理學
Dr JONG Kwok-kwan 莊國坤醫生 (Full-time 全職)

Medical Genetics (Molecular Genetics) 醫學遺傳學 (分子遺傳學)
Dr JONG Kwok-kwan 莊國坤醫生 (Full-time 全職)

ACCREDITED TEST CATEGORY
認可測試類別 : **Medical Testing 醫務化驗**

Anatomical Pathology	解剖病理學
Medical Genetics (Molecular Genetics)	醫學遺傳學 (分子遺傳學)

Department of Health - Centre for Health Protection, Public Health Laboratory Services Branch, Histopathology and Cytology Division
衞生署，衞生防護中心，公共衞生化驗服務處，組織病理及細胞科

Cytology Laboratory: 6/F, Public Health Laboratory Centre, 382 Nam Cheong Street, Shek Kip Mei, Kowloon, HK
香港九龍石硤尾，南昌街 382 號，公共衞生檢測中心六樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology	**Cytopathology** Gynaecological specimens	Gynaecological cytology examination by Papanicolaou staining	Specimen preparation and routine staining (both automation and manual): Method as documented in HCL-QSM-SOP-HGN-STA, HCL-QSM-SOP-HGN-STA-AST, HCL-QSM-SOP-GYC-THP ThinPrep + Papanicolaou staining Manual screening: Method as documented in HCL-QSM-SOP-HGN-SCN
	Non-gynaecological specimens	Non-gynaecological cytology examination by H&E, Papanicolaou and special staining	Specimen preparation and routine staining (both automation and manual method): Method as documented in: HCL-QSM-SOP-NGC-PRC and HCL-QSM-SOP-NGC-STA Haematoxylin and Eosin stain Papanicolaou stain Special Staining (manual method): Method as documented in HCL-QSM-SOP-HIS-STA Eosinophil by Carbol Chromotrope Haemosiderin by Perls' Prussian Blue Method as documented in HCL-QSM-SOP-NGC-STA Asbestos bodies by Perl's Prussian Blue Differential count by Diff Quik Method as documented in HCL-QSM-SOP-NGC-PRC Urate crystals by wet mount Special staining (manual method) for infectious agents: Method as documented in HCL-QSM-SOP-HIS-STA Acid-fast bacilli by Ziehl-Neelsen Fungi by Grocott's Methenamine Silver Pneumocystis carinii by Grocott's Methenamine Silver

Department of Health - Centre for Health Protection, Public Health Laboratory Services Branch, Histopathology and Cytology Division
衞生署，衞生防護中心，公共衞生化驗服務處，組織病理及細胞科

Cytology Laboratory: 6/F, Public Health Laboratory Centre, 382 Nam Cheong Street, Shek Kip Mei, Kowloon, HK
香港九龍石硤尾，南昌街 382 號，公共衞生檢測中心六樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology (cont'd)	**Cytopathology** (cont'd) Fine needle aspirates	FNA cytology examination by H&E and Papanicolaou staining	Specimen preparation and routine staining (both automation and manual method)*:* Method as documented in HCL-QSM-SOP-NGC-PRC and HCL-QSM-SOP-NGC-STA Haematoxylin and Eosin stain Papanicolaou stain

Department of Health - Centre for Health Protection, Public Health Laboratory Services Branch, Histopathology and Cytology Division
衞生署，衞生防護中心，公共衞生化驗服務處，組織病理及細胞科

Histopathology Laboratory: 6/F, Public Health Laboratory Centre, 382 Nam Cheong Street, Shek Kip Mei, Kowloon, HK
香港九龍石硤尾，南昌街 382 號，公共衞生檢測中心六樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology	**Histopathology** Surgical pathology and cytological specimens	Histology examination by H&E and special staining	Specimen preparation and routine staining (manual method): Method as documented in HCL-QSM-SOP-HIS-SUG, HCL-QSM-SOP-HIS-CUT, HCL-QSM-SOP-HIS-PRO, HCL-QSM-SOP-HIS-EMB, HCL-QSM-SOP- HIS-SEC, HCL-QSM-SOP-HIS-STA Haematoxylin and Eosin stain Special Staining (manual method): Method as documented in HCL-QSM-SOP-HIS-STA Acid mucins by Alcian Blue pH 2.5 or Colloidal iron (Hale's dialyzed iron technique) Mucins by Alcian Blue + Hyaluronidase digestion or Southgate's Mucicarmine Amyloid by Alkaline Congo Red or Methyl Violet / Crystal Violet Azurophilic granules and Eosinophils by Giemsa Calcium salts by Von Kossa Collagen and Fibrin by Masson's Trichrome Connective tissues by van Gieson Stain Elastic fibres by Verhoeff's Iron Haematoxylin Eosinophils by Carbol Chromotrope Fibrin by Martius Scarlet Blue Glycol groups by Periodic Acid -Schiff Glycogen by Periodic Acid-Schiff with digestion Haemosiderin by Perls' Prussian Blue Melanin by Masson Fontana Melanin and Lipofuscin by Schmorl ± Bleaching Metachromatic substances by Toluidine Blue Special staining (manual method) for infectious agents: Method as documented in HCL-QSM-SOP-HIS-STA Acid-fast bacilli by Ziehl-Neelsen Bacteria by Gram stain Fungi by Grocott's Methenamine Silver Mycobacterium leprae by Wade-Fite technique Spirochetes and Campylobacter-like organisms by Warthin-Starry method

Department of Health - Centre for Health Protection, Public Health Laboratory Services Branch, Histopathology and Cytology Division
衞生署，衞生防護中心，公共衞生化驗服務處，組織病理及細胞科

Histopathology Laboratory: 6/F, Public Health Laboratory Centre, 382 Nam Cheong Street, Shek Kip Mei, Kowloon, HK
香港九龍石硤尾，南昌街 382 號，公共衞生檢測中心六樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology (cont'd)	**Histopathology** (cont'd) Fresh tissue specimens and biopsies	Histology examination by H&E and special staining	Specimen preparation and routine staining (manual method): Method as documented in HCL-QSM-SOP-HIS-SEC-FRO and HCL-QSM-SOP-HIS-STA Haematoxylin and Eosin
	Immunohistochemistry Skin Biopsies	Immunofluorescence examination by Manual method	Specimen preparation and staining: Method as documented in HCL-QSM-SOP-HIS-IMF IgA / IgM / IgG / Complement 3 / Fibrinogen by Direct Immunofluorescence Method
	Histological and Cytological specimen	Immunohistochemical examination for various antigen markers by Automation	Slide preparation and staining (automated method): Method as documented in HCL-QSM-SOP-HIS-IHC Detection system: Ventana Benchmark Ultra system with substrate - chromogen Antigen retrieval: Heat-induced or enzymatic digestion

Department of Health - Centre for Health Protection, Public Health Laboratory Services Branch, Histopathology and Cytology Division
衞生署，衞生防護中心，公共衞生化驗服務處，組織病理及細胞科

Molecular Anatomical Laboratory: 5/F, Public Health Laboratory Centre, 382 Nam Cheong Street, Shek Kip Mei, Kowloon, HK
香港九龍石硤尾，南昌街 382 號，公共衞生檢測中心五樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics	**Molecular Genetics** Gynaecological specimens	High Risk Human Papilloma virus (HPV) detection by Real-Time Polymerase Chain Reaction, qualitative (Target region: L1 gene)	Nucleic acid extraction, amplification and detection by cobas prime, cobas 6800 or cobas 8800 systems using cobas HPV Test Method as documented in HCL-QSM-SOP-MOL

PathLab Medical Laboratories Limited
栢立醫學化驗所有限公司

ADDRESS **地址**	:	27-28/F, Lee & Man Commercial Center, 169 Electric Road, Fortress Hill, Hong Kong 香港炮台山電氣道 169 號理文商業中心 27-28 樓
ENQUIRY **查詢**	:	Ms Countess TAM Chung-mei 譚宗薇女士
TELEPHONE **電話**	:	3983 1800
FAX **傳真**	:	3983 1811
E-MAIL **電郵**	:	maytam@pathlabhk.com
WEBSITE ADDRESS **網址**	:	www.pathlabhk.com
CLIENTELE **服務對象**	:	Private physicians, medical centres, private and public hospitals and other medically-related institutions 私家醫生,醫療中心,私營及公營醫院和與醫療有關的機構

PathLab Medical Laboratories Limited
栢立醫學化驗所有限公司

ADDRESS
地址

Main facility: 27/F and 28/F, Lee & Man Commercial Center, 169 Electric Road, Fortress Hill, Hong Kong
香港炮台山電氣道169號理文商業中心27-28樓

Branch facilities:

Central Branch : PathLab Medical Laboratory - 1802 Melbourne Plaza, 33 Queen's Road Central, Hong Kong
栢立醫學化驗所 - 香港中環皇后大道中33 號萬邦行1802室

Causeway Bay Branch : PathLab Medical Laboratory - 1810 East Point Centre, 555 Hennessy Road, Hong Kong
栢立醫學化驗所 - 香港銅鑼灣軒尼詩道555號東角中心1810室

Mongkok Branch : PathLab Medical Laboratory - 1215 Argyle Centre, Phase 1, 688 Nathan Road, Mongkok, Kowloon
栢立醫學化驗所 - 九龍旺角彌敦道688號旺角中心第一期1215室

Tsim Sha Tsui Branch: PathLab Medical Laboratory – Shop 803, 8/F, H Zentre, 15 Middle Road, Tsim Sha Tsui, Kowloon
栢立醫學化驗所 - 九龍尖沙咀中間道15號803室

LABORATORY DIRECTOR
化驗所主管 : **Biomedical Scientist Director 醫務科學主管:**
Ms Cybil WONG Ting-yan
黃庭欣女士
B.Sc.(Hons), M.Med.Sc., Reg Part I MLT (HK)

PATHOLOGIST IN CHARGE OF THE ACCREDITED DISCIPLINE
負責認可範疇的病理學專科醫生 : Nil

ACCREDITED TEST CATEGORY
認可測試類別 : **Medical Testing 醫務化驗**

Chemical Pathology	化學病理學
Clinical Microbiology and Infection	臨床微生物學及傳染病
Haematology	血液學
Immunology	免疫學
Medical Genetics (Molecular Genetics)	醫學遺傳學（分子遺傳學）

PathLab Medical Laboratories Limited
栢立醫學化驗所有限公司
Main facility : 27/F and 28/F, Lee & Man Commercial Center, 169 Electric Road, Fortress Hill, Hong Kong
香港炮台山電氣道169號理文商業中心27-28樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology	**Drug of abuse testing** Urine	Amphetamines by Immunoassay (Fluorescent label) Immunochromatographic assay	 Quidel Triage TOX Drug Screen Assay using Alere Triage MeterPro Biotest RightSign MultiDrug Assay
		Barbiturates by Immunoassay (Fluorescent label)	 Quidel Triage TOX Drug Screen Assay using Alere Triage MeterPro
		Benzodiazepines by Immunoassay (Fluorescent label) Immunochromatographic assay	 Quidel Triage TOX Drug Screen Assay using Alere Triage MeterPro Biotest RightSign MultiDrug Assay
		Cannabinoids (THC) by Immunoassay (Fluorescent label) Immunochromatographic assay	 Quidel Triage TOX Drug Screen Assay using Alere Triage MeterPro Biotest RightSign MultiDrug Assay
		Cocaine Metabolites by Immunoassay (Fluorescent label) Immunochromatographic assay	 Quidel Triage TOX Drug Screen Assay y using Alere Triage MeterPro Biotest RightSign MultiDrug Assay y
		Methadone by Immunoassay (Fluorescent label) Immunochromatographic assay	 Quidel Triage TOX Drug Screen Assay y using Alere Triage MeterPro Biotest RightSign MultiDrug Assay
		Methamphetamines by Immunoassay (Fluorescent label) Immunochromatographic assay	 Quidel Triage TOX Drug Screen Assay using Alere Triage MeterPro Biotest RightSign MultiDrug Assay
		Opiates by Immunoassay (Fluorescent label) Immunochromatographic assay	 Quidel Triage TOX Drug Screen Assay y using Alere Triage MeterPro Biotest RightSign MultiDrug Assay
		Phencyclidine (PCP) by Immunochromatographic assay	 Biotest RightSign MultiDrug Assay

PathLab Medical Laboratories Limited
栢立醫學化驗所有限公司
Main facility : 27/F and 28/F, Lee & Man Commercial Center, 169 Electric Road, Fortress Hill, Hong Kong
香港炮台山電氣道169號理文商業中心27-28樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology (cont'd)	**General chemistry**		
	Fluoride plasma	Glucose by Spectrophotometry	Abbott Alinity c System Glucose Assay
	Serum	Albumin by Spectrophotometry	Abbott Alinity c System Albumin BCG2 Assay
		Alanine Aminotransferase (ALT) by Spectrophotometry	Abbott Alinity c System Alanine Aminotransferase2 Assay
		Alkaline Phosphatase (ALP) by Spectrophotometry	Abbott Alinity c System Alkaline Phosphatase2 Assay
		Amylase by Spectrophotometry	Abbott Alinity c System Amylase2 Assay
		Aspartate Aminotransferase (AST) by Spectrophotometry	Abbott Alinity c System Aspartate Aminotransferase2 Assay
		Bicarbonate [CO_2 content] by Spectrophotometry	Abbott Alinity c System Carbon Dioxide Assay
		Bilirubin, Direct by Spectrophotometry	Abbott Alinity c System Direct Bilirubin Assay
		Bilirubin, Neonatal by Spectrophotometry	Abbott Alinity c System Total Bilirubin2 Assay
		Bilirubin, Total by Spectrophotometry	Abbott Alinity c System Total Bilirubin2 Assay
		Calcium by Spectrophotometry	Abbott Alinity c System Calcium Assay
		Chloride by Potentiometry (Ion Selective Electrode)	Abbott Alinity c System ICT Na^+, K^+, Cl^- Assay
		Cholesterol, Total by Spectrophotometry	Abbott Alinity c System Cholesterol2 Assay

PathLab Medical Laboratories Limited
栢立醫學化驗所有限公司
Main facility : 27/F and 28/F, Lee & Man Commercial Center, 169 Electric Road, Fortress Hill, Hong Kong
香港炮台山電氣道169號理文商業中心27-28樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology (cont'd)	**General chemistry (cont'd)** Serum (cont'd)	Cholesterol, HDL by Spectrophotometry	Abbott Alinity c System Ultra HDL Assay
		Cholesterol, LDL by Immunoassay (colorimetric method)	Abbott Alinity c System Direct LDL Assay
		Creatine Kinase (CK), Total by Spectrophotometry	Abbott Alinity c System Creatine Kinase Assay
		Creatinine by Spectrophotometry	Abbott Alinity c System Creatinine (Enzymatic) Assay
		Gamma Glutamyl Transferase (GGT) by Spectrophotometry	Abbott Alinity c System Gamma Glutamyl Transferase2 Assay
		High sensitivity C Reactive Protein (hsCRP) by Immunoturbidimetry	Abbott Alinity c System CRP Vario Assay
		Iron by Spectrophotometry	Abbott Alinity c System Iron2 Assay
		Lactate Dehydrogenase (LDH) by Spectrophotometry	Abbott Alinity c System Lactate Dehydrogenase2 Assay
		Phosphorus by Spectrophotometry	Abbott Alinity c System Phosphorus Assay
		Potassium by Potentiometry (Ion Selective Electrode)	Abbott Alinity c System ICT $Na^{+,}$ $K^{+,}$ Cl^{-} Assay
		Protein, Total by Spectrophotometry	Abbott Alinity c System Total Protein2 Assay
		Sodium by Potentiometry (Ion Selective Electrode)	Abbott Alinity c System ICT $Na^{+,}$ $K^{+,}$ Cl^{-} Assay

PathLab Medical Laboratories Limited
栢立醫學化驗所有限公司
Main facility : 27/F and 28/F, Lee & Man Commercial Center, 169 Electric Road, Fortress Hill, Hong Kong
香港炮台山電氣道169號理文商業中心27-28樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology (cont'd)	**General chemistry (cont'd)**		
	Serum (cont'd)	Total Iron Binding Capacity (TIBC) by calculation	Abbott Alinity c System Iron2 Assay and UIBC Assay
		Triglyceride by Spectrophotometry	Abbott Alinity c System Triglyceride2 Assay
		Urea Nitrogen (BUN) by Spectrophotometry	Abbott Alinity c System Urea Nitrogen Assay
		Uric acid by Spectrophotometry	Abbott Alinity c System Uric Acid2 Assay
		Unsaturated Iron Binding Capacity (UIBC) by Spectrophotometry	Abbott Alinity c System UIBC Assay
	Urine	Albumin by Immunoturbidimetry	Abbott Alinity c System Microalbumin Assay
		Amylase by Spectrophotometry	Abbott Alinity c System Amylase2 Assay
		Calcium by Spectrophotometry	Abbott Alinity c System Calcium Assay
		Chloride by Integrated Chip Technology	Abbott Alinity c System ICT Sample Diluent
		Creatinine by Spectrophotometry	Abbott Alinity c System Creatinine (Enzymatic) Assay
		Ethanol by Spectrophotometry	Abbott Alinity c System Ethanol Assay
		Glucose by Spectrophotometry	Abbott Alinity c System Glucose Assay
		Phosphorus by Spectrophotometry	Abbott Alinity c System Phosphorus Assay

PathLab Medical Laboratories Limited
栢立醫學化驗所有限公司
Main facility : 27/F and 28/F, Lee & Man Commercial Center, 169 Electric Road, Fortress Hill, Hong Kong
香港炮台山電氣道169號理文商業中心27-28樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology (cont'd)	**General chemistry (cont'd)**		
	Urine (cont'd)	Potassium by	
		Integrated Chip Technology	Abbott Alinity c System ICT Sample Diluent
		Protein by	
		Spectrophotometry	Abbott Alinity c System Urine/CSF Protein Assay
		Sodium by	
		Integrated Chip Technology	Abbott Alinity c System ICT Sample Diluent
		Urea Nitrogen (BUN) by	
		Spectrophotometry	Abbott Alinity c System Urea Nitrogen Assay
		Uric acid by	
		Spectrophotometry	Abbott Alinity c System Uric Acid2 Assay
	Hormones		
	Serum	Cortisol by	
		Immunoassay (Chemiluminescent label)	Abbott Alinity i System Cortisol Assay
		Dehydroepiandrosterone Sulphate (DHEA-S) by	
		Immunoassay (Chemiluminescent label)	Roche Cobas e601 System DHEA-S Assay
		Estradiol (E2) by	
		Immunoassay (Chemiluminescent label)	Roche Cobas e601 System E2 Assay
		Follicle Stimulating Hormone (FSH) by	
		Immunoassay (Chemiluminescent label)	Roche Cobas e601 System FSH Assay
		Growth Hormone (GH) by	
		Immunoassay (Chemiluminescent label)	Roche Cobas e601 System GH Assay
		Luteinising Hormone (LH) by	
		Immunoassay (Chemiluminescent label)	Roche Cobas e601 System LH Assay
		Parathyroid Hormone (PTH) by	
		Immunoassay (Chemiluminescent label)	Roche Cobas e601 System PTH Assay
		Progesterone by	
		Immunoassay (Chemiluminescent label)	Roche Cobas e601 System Progesterone Assay
		Prolactin by	
		Immunoassay (Chemiluminescent label)	Roche Cobas e601 System Prolactin Assay

PathLab Medical Laboratories Limited
栢立醫學化驗所有限公司
Main facility : 27/F and 28/F, Lee & Man Commercial Center, 169 Electric Road, Fortress Hill, Hong Kong
香港炮台山電氣道169號理文商業中心27-28樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology (cont'd)	**Hormones (cont'd)**		
	Serum (cont'd)	Testosterone, Total by Immunoassay (Chemiluminescent label)	Roche Cobas e601 System Testosterone Assay
		T-Uptake by Immunoassay (Chemiluminescent label)	Abbott Alinity i System T-Uptake Assay
		Thyroxine, Free (FT4) by Immunoassay (Chemiluminescent label)	Abbott Alinity i System Free T4 Assay
		Thyroxine, Total (T4) by Immunoassay (Chemiluminescent label)	Abbott Alinity i System Total T4 Assay
		Triiodothyronine, Free (FT3) by Immunoassay (Chemiluminescent label)	Abbott Alinity i System Free T3 Assay
		Triiodothyronine, Total (T3) by Immunoassay (Chemiluminescent label)	Abbott Alinity i System Total T3 Assay
		Thyroid Stimulating Hormone (TSH) by Immunoassay (Chemiluminescent label)	Abbott Alinity i System TSH Assay
	Proteins, quantitative analysis		
	Serum	C Reactive Protein (CRP) by Immunoturbidimetry	Abbott Alinity c System CRP Vario Assay
		Ferritin by Immunoassay (Chemiluminescent label)	Abbott Alinity i System Ferritin Assay
	Special chemistry		
	EDTA whole blood	Haemoglobin A1c (HbA1c) by Ion Exchange High Performance Liquid Chromatography (HPLC)	Sysmex Tosoh Automated Glycohemoglobin Analyser HLC-723 G11
	Serum	Vitamin D by Immunoassay (Chemiluminescent label)	Roche Cobas e601 System Vitamin D Assay
	Stool	Fecal Occult Blood by Latex Agglutination	Eiken OC-sensor iO Analyser FIT Assay

PathLab Medical Laboratories Limited
栢立醫學化驗所有限公司
Main facility : 27/F and 28/F, Lee & Man Commercial Center, 169 Electric Road, Fortress Hill, Hong Kong
香港炮台山電氣道169號理文商業中心27-28樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology (cont'd)	**Tumour markers** Serum	Alpha-feto Protein (AFP) by Immunoassay (Chemiluminescent label)	Abbott Alinity i System AFP Assay
		Beta-Human Chorionic Gonadotropin (β-HCG) by Immunoassay (Chemiluminescent label)	Abbott Alinity i System Total β-HCG Assay
		CA 15-3 by Immunoassay (Chemiluminescent label)	Abbott Alinity i System CA 15-3 Assay
		CA 19-9 by Immunoassay (Chemiluminescent label)	Abbott Alinity i System CA 19-9XR Assay
		CA 125 by Immunoassay (Chemiluminescent label)	Abbott Alinity i System CA 125 II Assay
		Carcinoembryonic Antigen (CEA) by Immunoassay (Chemiluminescent label)	Abbott Alinity i System CEA Assay
		Prostate Specific Antigen, Free (FPSA) by Immunoassay (Chemiluminescent label)	Abbott Alinity i System Free PSA Assay
		Prostate Specific Antigen, Total (TPSA) by Immunoassay (Chemiluminescent label)	Abbott Alinity i System Total PSA Assay
		Thyroglobulin (TG) by Immunoassay (Chemiluminescent label)	Roche Cobas e601 System TG Assay

PathLab Medical Laboratories Limited
栢立醫學化驗所有限公司
Main facility : 27/F and 28/F, Lee & Man Commercial Center, 169 Electric Road, Fortress Hill, Hong Kong
香港炮台山電氣道169號理文商業中心27-28樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Clinical Microbiology and Infection	**Bacteriology – Culture and sensitivity tests and microscopy**		
	Genital samples (including HVS, endocervical swab, urethral swab, etc.)	Microscopy for Cell Morphology and Microorganisms by Gram stain	Manual method as documented in M015
		Culture and Antimicrobial Susceptibility Tests for Genital Pathogens (including *Neisseria gonorrhoeae*) by Aerobic and CO_2 culture	Culture: Method as documented in M100 Antimicrobial susceptibility tests: Method as documented in MMID Vitek ID and AST Set Up PRO and MMST Disc Diffusion PRO
	Lower respiratory tract samples (including sputum, bronchial aspirate, tracheal aspirate, etc.)	Microscopy for Cell Morphology and Microorganism by Gram stain	Manual method as documented in M015
		Culture and Antimicrobial Susceptibility Tests for Respiratory Tract Pathogens by Aerobic and anaerobic culture	Culture (sputum and tracheal aspirate): Method as documented in M200L Antimicrobial susceptibility tests: MMID Vitek ID and AST Set Up PRO, MMST Disc Diffusion PRO Culture (bronchial aspirate): M200L and M600 Antimicrobial susceptibility tests: MMID Vitek ID and AST Set Up PRO, MMST Disc Diffusion PRO and MMST ETest PRO
	Upper respiratory tract samples (including throat swab, nasal swab, etc.)	Microscopy for Cell Morphology and Microorganisms by Gram stain	Manual method as documented in M015
		Culture and Antimicrobial Susceptibility Tests for Respiratory Tract Pathogens by Aerobic culture	Culture: Method as documented in M200U and MMST MRSA and MRS PRO ID Antimicrobial susceptibility tests: MMID Vitek ID and AST Set Up PRO, MMST Disc Diffusion PRO

PathLab Medical Laboratories Limited
栢立醫學化驗所有限公司
Main facility : 27/F and 28/F, Lee & Man Commercial Center, 169 Electric Road, Fortress Hill, Hong Kong
香港炮台山電氣道169號理文商業中心27-28樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Bacteriology – Culture and sensitivity tests and microscopy (cont'd)**		
	Enteric samples (including stool and rectal swab)	Culture and Antimicrobial Susceptibility Tests for Enteric Pathogens by Aerobic & Microaerophilic culture	Culture: Method as documented in M400 Antimicrobial susceptibility tests: method as documented in MMID Vitek ID and AST Set Up PRO and MMST Disc Diffusion PRO
		Culture Antimicrobial Susceptibility Tests of *Clostridium difficile* by Anaerobic culture	Culture: Method as documented in M600 Antimicrobial susceptibility tests: method as documented in MMST ETest PRO
	Superficial wound samples (including eye, ear, skin swabs, etc.)	Microscopy for Cell Morphology and Microorganisms by Gram stain	Manual method as documented in M015
		Culture and Antimicrobial Susceptibility Tests for Pathogens by Aerobic culture	Culture: Method as documented in M300 Antimicrobial susceptibility tests: Method as documented in MMID Vitek ID and AST Set Up PRO and MMST Disc Diffusion PRO
	Deep wound samples fluid, (including abscess pus or tissue, etc.)	Microscopy for Cell Morphology and Microorganisms by Gram stain	Manual method as documented in M015
		Culture and Antimicrobial Susceptibility Tests for Pathogens by Aerobic and anerobic culture	Culture: Method as documented in M300 and M600 Antimicrobial susceptibility tests: Method as documented in MMID Vitek ID and AST Set Up PRO and MMST Disc Diffusion PRO and MMST ETest PRO
	Urine	Culture and Antimicrobial Susceptibility Tests for Pathogens by Aerobic culture	Culture: Method as documented in M500 Antimicrobial susceptibility tests: Method as documented in MMID Vitek ID and AST Set Up PRO and MMST Disc Diffusion PRO

PathLab Medical Laboratories Limited
栢立醫學化驗所有限公司
Main facility : 27/F and 28/F, Lee & Man Commercial Center, 169 Electric Road, Fortress Hill, Hong Kong
香港炮台山電氣道169號理文商業中心27-28樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Microbiology – Miscellaneous tests**		
	Serum	*Toxoplasma gondii* Antibody (IgG) by Immunoassay (Enzyme-linked fluorescent label)	bioMerieux VIDAS System Toxo IgG II Assay
	Parasitology		
	Stool	Stool for Routine Ova, Cysts, and Trophozoites (O&P) by Direct & Stained smears and concentration method	Manual method as documented in U004
	Syphilis Serology		
	Serum	Rapid Plasma Reagin Antibody (RPR) by Flocculation method	Cortez Diagnostics, Inc, RPR Assay
		Treponema pallidum Antibody by Immunoassay (Chemiluminescent label)	Abbott Alinity i System Syphilis TP Assay
	Urinalysis and/or urine microscopy		
	Urine	Urinalysis by Dipstick method, including - Bilirubin - Blood - Glucose - Ketone - Nitrite - pH - Protein - Specific gravity - Urobilinogen	UC-3500 Fully Automated Urine Chemistry Analyser
		Urine Formed Elements by Microscopic examination	Method as documented in U001 using Neubauer-improved Chamber Sysmex UF-4000 Fully Automated Urine Particle Analyser

PathLab Medical Laboratories Limited
栢立醫學化驗所有限公司
Main facility : 27/F and 28/F, Lee & Man Commercial Center, 169 Electric Road, Fortress Hill, Hong Kong
香港炮台山電氣道169號理文商業中心27-28樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Virology – Serology** Serum	Cytomegalovirus Antibody (IgG) by Immunoassay (Enzyme-linked fluorescent label)	bioMerieux VIDAS System CMV IgG Assay
		Hepatitis A Virus Antibody (IgG) by Immunoassay (Chemiluminescent label)	Abbott Alinity i System HAV Ab IgG Assay
		Hepatitis A Virus Antibody (IgM) by Immunoassay (Enzyme-linked fluorescent label)	bioMerieux VIDAS System HAV IgM Assay
		Hepatitis B Core Virus Antibody (HBcAb) by Immunoassay (Chemiluminescent label)	Abbott Alinity i System Anti-HBc II Assay
		Hepatitis B Virus Antibody (HBsAb) by Immunoassay (Chemiluminescent label)	Abbott Alinity i System Anti-HBs Assay
		Hepatitis B e Virus Antibody (HBeAb) by Immunoassay (Chemiluminescent label)	Abbott Alinity i System Anti-HBe Assay
		Hepatitis B Surface Antigen (HBsAg) by Immunoassay (Chemiluminescent label)	Abbott Alinity i System HBsAg Qualitative II Assay
		Hepatitis B e Virus Antigen (HBeAg) by Immunoassay (Chemiluminescent label)	Abbott Alinity i System HBeAg Assay
		Hepatitis C Virus Antibody (anti-HCV) by Immunoassay (Chemiluminescent label)	Abbott Alinity i System Anti-HCV Assay
		Human Immunodeficiency Virus I and II Antibody and p24 Antigen by Immunoassay (Chemiluminescent label)	Abbott Alinity i System HIV Ag/Ab Combo Assay
		HTLV 1 & 2 Antibodies by Immunoassay (Chemiluminescent label)	Abbott Alinity i System HTLV-I/II Assay
		Measles (Rubeola) Antibody (IgG) by Immunoassay (Chemiluminescent label)	Vircell VirClia CLIA Analyser Measles IgG Assay
		Rubella Virus Antibody (IgG) by Immunoassay (Chemiluminescent label)	Abbott Alinity i System Rubella IgG Assay

PathLab Medical Laboratories Limited
栢立醫學化驗所有限公司
Main facility : 27/F and 28/F, Lee & Man Commercial Center, 169 Electric Road, Fortress Hill, Hong Kong
香港炮台山電氣道169號理文商業中心27-28樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Virology – Serology (cont'd)** Serum (cont'd)	Varicella-zoster Virus Antibody (IgG) by Immunoassay (Enzyme-linked fluorescent label)	bioMerieux VIDAS System Varicella-zoster IgG Assay

PathLab Medical Laboratories Limited
栢立醫學化驗所有限公司
Main facility : 27/F and 28/F, Lee & Man Commercial Center, 169 Electric Road, Fortress Hill, Hong Kong
香港炮台山電氣道169號理文商業中心27-28樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Haematology	**Haematology – General**		
	EDTA whole blood	Complete Blood Count including	
		- Haemoglobin	Abbott Alinity hq System
		- Haematocrit	
		- Leucocyte count (WBC count)	
		- Leucocyte differential count	
		- Mean Corpuscular volume (MCV)	
		- Mean corpuscular haemoglobin concentration (MCHC)	
		- Mean corpuscular haemoglobin (MCH)	
		- Platelet count	
		- Red cell count	
		Peripheral Blood Smear Examination by Wright stain	Manual method as documented in P067
	Haematology – Immunohaematology		
	EDTA whole blood and clotted blood	ABO and Rh(D) Typing by Red Cell Agglutination	Ortho Vision SWIFT BioVue Analyser Manual method as documented in H001

PathLab Medical Laboratories Limited
栢立醫學化驗所有限公司
Main facility : 27/F and 28/F, Lee & Man Commercial Center, 169 Electric Road, Fortress Hill, Hong Kong
香港炮台山電氣道169號理文商業中心27-28樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Immunology	**Autoantibodies**		
	Serum	Antinuclear antibodies by	
		Indirect immunofluorescence	Euroimmun IF Sprinter System ANA Hep-20-10 Assay
			Manual method using ANA Hep-20-10 Assay
		dsDNA antibody by	
		Immunoassay (Enzyme-linked immunosorbant assay)	Euroimmun Analyser 1 System dsDNA Assay
		Rheumatoid Arthritis Factor (RA Factor) by	
		Immunoturbidimetry	Abbott Alinity c System RF Assay
	Immunochemistry		
	Serum	C3 Complement by	
		Immunoturbidimetry	Abbott Alinity c System Complement C3 Assay
		C4 Complement by	
		Immunoturbidimetry	Abbott Alinity c System Complement C4 Assay
		Immunoglobulin A (IgA) by	
		Immunoturbidimetry	Abbott Alinity c System Immunoglobulin A Assay
		Immunoglobulin E (IgE), Total by	
		Immunoassay (Chemiluminescent label)	Siemens Immulite 2000 XPi System Total IgE Assay
		Immunoglobulin G (IgG) by	
		Immunoturbidimetry	Abbott Alinity c System Immunoglobulin G Assay
		Immunoglobulin M (IgM) by	
		Immunoturbidimetry	Abbott Alinity c System Immunoglobulin M Assay

PathLab Medical Laboratories Limited
栢立醫學化驗所有限公司
Main facility : 27/F and 28/F, Lee & Man Commercial Center, 169 Electric Road, Fortress Hill, Hong Kong
香港炮台山電氣道169號理文商業中心27-28樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Medical Genetics	**Molecular Genetics (microbiology)**		
	Cervical scraping, endocervical swab, vaginal swab, male urethral swab and urine	*Chlamydia trachomatis* – detection by Real-time Polymerase Chain Reaction, qualitative (Target region: cryptic plasmid and ompA gene)	Cepheid Innovation GeneXpert CT/NG Assay
		Neisseria gonorrhoeae – detection by Real-time Polymerase Chain Reaction, qualitative (Target region: DR-9)	Cepheid Innovation GeneXpert CT/NG Assay
	Cervical swab and male urethral swab	*Chlamydia trachomatis* – detection by Real-time Polymerase Chain Reaction, Qualitative (Target region: gyrB, cryptic plasmid)	Nucleic acid extraction, amplification and detection using Tianlong Viral DNA and RNA Extraction kit and Tianlong *Chlamydia trachomatis* PCR Diagnostic Kit
	Cervical swab and male urethral swab	*Neisseria gonorrhea* – detection by Real-time Polymerase Chain Reaction, qualitative (Target region: M. Ngoll, PorA)	Nucleic acid extraction, amplification and detection using Tianlong Viral DNA and RNA Extraction kit and Tianlong *Neisseria gonorrhea* PCR Diagnostic Kit
	Nasopharyngeal swab, washings and aspirates	Adenovirus – detection by Real time Multiplex Polymerase Chain Reaction, qualitative (Target region: Hexon gene)	Nucleic acid extraction, amplification and detection by BioFire Diagnostics FilmArray Torch System - Respiratory Panel
		Coronavirus – detection by Real time Multiplex Polymerase Chain Reaction, qualitative (Target region: Polymerase or nucleoprotein gene of respective strains)	Nucleic acid extraction, amplification and detection by BioFire Diagnostics FilmArray Torch System - Respiratory Panel
		Human Metapneumovirus – detection by Real time Multiplex Polymerase Chain Reaction, qualitative (Target region: Nucleoprotein gene)	Nucleic acid extraction, amplification and detection by BioFire Diagnostics FilmArray Torch System - Respiratory Panel
		Influenza A virus – detection by Real time Multiplex Polymerase Chain Reaction, qualitative (Target region: HA, M and NS1 gene)	Nucleic acid extraction, amplification and detection by BioFire Diagnostics FilmArray Torch System - Respiratory Panel

PathLab Medical Laboratories Limited
栢立醫學化驗所有限公司
Main facility : 27/F and 28/F, Lee & Man Commercial Center, 169 Electric Road, Fortress Hill, Hong Kong
香港炮台山電氣道169號理文商業中心27-28樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Medical Genetics (cont'd)	**Molecular Genetics (microbiology) (cont'd)**		
	Nasopharyngeal swab, washings and aspirates (cont'd)	Influenza B virus – detection by Real time Multiplex Polymerase Chain Reaction, qualitative (Target region: HA gene)	Nucleic acid extraction, amplification and detection by BioFire Diagnostics FilmArray Torch System - Respiratory Panel
		Parainfluenza virus – detection by Real time Multiplex Polymerase Chain Reaction, qualitative (Target region: HA or fusion gene of respective sub-types)	Nucleic acid extraction, amplification and detection by BioFire Diagnostics FilmArray Torch System - Respiratory Panel
		Respiratory syncytial virus – detection by Real time Multiplex Polymerase Chain Reaction, qualitative (Target region: M gene)	Nucleic acid extraction, amplification and detection by BioFire Diagnostics FilmArray Torch System - Respiratory Panel
		Rhinovirus and/or Enterovirus – detection by Real time Multiplex Polymerase Chain Reaction, qualitative (Target region: 5' UTR)	Nucleic acid extraction, amplification and detection by BioFire Diagnostics FilmArray Torch System - Respiratory Panel
	Deep throat saliva, nasopharyngeal swab, nasal swab, throat swab, and stool	Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) – detection by Real time Multiplex Polymerase Chain Reaction, qualitative (Target regions: N gene and ORF1ab gene)	Nucleic acid extraction, amplification and detection as documented in R092

PathLab Medical Laboratories Limited
栢立醫學化驗所有限公司
Mongkok Branch : 1215 Argyle Centre, Phase 1, 688 Nathan Road, Mongkok, Kowloon
九龍旺角彌敦道688號旺角中心第一期1215室

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Clinical Microbiology and Infection	**Urinalysis and/or urine microscopy** Urine	Urinalysis by Dipstick method, including - Bilirubin - Blood - Glucose - Ketone - Nitrite - pH - Protein - Specific gravity - Urobilinogen	Method as documented in U001 using Siemens Multistix 10 SG
		Urine Formed Elements by Wet smear microscopic examination	Method as documented in U001 using Neubauer-improved Chamber

PathLab Medical Laboratories Limited
栢立醫學化驗所有限公司
Mongkok Branch : 1215 Argyle Centre, Phase 1, 688 Nathan Road, Mongkok, Kowloon
九龍旺角彌敦道688號旺角中心第一期1215室

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Haematology	**Haematology – General** EDTA whole blood	Complete Blood Count including - Haemoglobin - Haematocrit - Leucocyte count (WBC count) - Leucocyte differential count - Mean corpuscular volume (MCV) - Mean corpuscular haemoglobin concentration (MCHC) - Mean corpuscular haemoglobin (MCH) - Platelet count - Red cell count	Manual method as documented in H018
		Peripheral Blood Smear Examination by Wright stain	Manual method as documented in P067

PathLab Medical Laboratories Limited
栢立醫學化驗所有限公司
Central Branch : 1802 Melbourne Plaza, 33 Queen's Road Central, Hong Kong
香港中環皇后大道中 33 號萬邦行 1802 室

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Clinical Microbiology and Infection	**Urinalysis and/or urine microscopy** Urine	Urinalysis by Dipstick method, including - Bilirubin - Blood - Glucose - Ketone - Nitrite - pH - Protein - Specific gravity - Urobilinogen	. Method as documented in U001 using Siemens Multistix 10 SG
		Urine Formed Elements by Wet smear microscopic examination	Method as documented in U001 using Neubauer-improved Chamber

PathLab Medical Laboratories Limited
栢立醫學化驗所有限公司
Central Branch : 1802 Melbourne Plaza, 33 Queen's Road Central, Hong Kong
香港中環皇后大道中 33 號萬邦行 1802 室

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Haematology	**Haematology – General** EDTA whole blood	Complete Blood Count including - Haemoglobin - Haematocrit - Leucocyte count (WBC count) - Leucocyte differential count - Mean corpuscular volume (MCV) - Mean corpuscular haemoglobin concentration (MCHC) - Mean corpuscular haemoglobin (MCH) - Platelet count - Red cell count	Manual method as documented in H018
		Peripheral Blood Smear Examination by Wright stain	Manual method as documented in P067

PathLab Medical Laboratories Limited
栢立醫學化驗所有限公司
Causeway Bay Branch : 1810 East Point Centre, 555 Hennessy Road, Hong Kong
香港銅鑼灣軒尼詩道 555 號東角中心 1810 室

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Clinical Microbiology and Infection	**Urinalysis and/or urine microscopy** Urine	Urinalysis by Dipstick method, including - Bilirubin - Blood - Glucose - Ketone - Nitrite - pH - Protein - Specific gravity - Urobilinogen	Method as documented in U001 using Siemens Multistix 10 SG
		Urine Formed Elements by Wet smear microscopic examination	Method as documented in U001 using Neubauer-improved Chamber

PathLab Medical Laboratories Limited
栢立醫學化驗所有限公司
Causeway Bay Branch : 1810 East Point Centre, 555 Hennessy Road, Hong Kong
香港銅鑼灣軒尼詩道 555 號東角中心 1810 室

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Haematology	**Haematology – General** EDTA whole blood	Complete Blood Count including - Haemoglobin - Haematocrit - Leucocyte count (WBC count) - Leucocyte differential count - Mean corpuscular volume (MCV) - Mean corpuscular haemoglobin concentration (MCHC) - Mean corpuscular haemoglobin (MCH) - Platelet count - Red cell count	Sysmex XS-1000i Haematology System Manual method as documented in H018
		Peripheral Blood Smear Examination by Wright stain	Manual method as documented in P067

PathLab Medical Laboratories Limited
栢立醫學化驗所有限公司
Tsim Sha Tsui Branch : Shop 803, 8/F, H Zentre, 15 Middle Road, Tsim Sha Tsui, Kowloon
九龍尖沙咀中間道 15 號 803 室

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Clinical Microbiology and Infection	**Urinalysis and/or urine microscopy** Urine	Urinalysis by Dipstick method, including - Bilirubin - Blood - Glucose - Ketone - Nitrite - pH - Protein - Specific gravity - Urobilinogen	Method as documented in U001 using Siemens Multistix 10 SG
		Urine Formed Elements by Wet smear microscopic examination	Method as documented in U001 using Neubauer-improved Chamber

PathLab Medical Laboratories Limited
栢立醫學化驗所有限公司
Tsim Sha Tsui Branch : Shop 803, 8/F, H Zentre, 15 Middle Road, Tsim Sha Tsui, Kowloon
九龍尖沙咀中間道 15 號 803 室

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Haematology	**Haematology – General** EDTA whole blood	Complete Blood Count including - Haemoglobin - Haematocrit - Leucocyte count (WBC count) - Leucocyte differential count - Mean corpuscular volume (MCV) - Mean corpuscular haemoglobin concentration (MCHC) - Mean corpuscular haemoglobin (MCH) - Platelet count - Red cell count	Sysmex XN-350 Haematology System Manual method as documented in H018
		Peripheral Blood Smear Examination by Wright stain	Manual method as documented in P067

Diagnostix Medical Centre Ltd.
健康化驗中心有限公司

ADDRESS **地址**	:	Room 601, 6/F, China Insurance Group Building, 141 Des Voeux Road Central, Hong Kong 香港中環德輔道中 141 號中保集團大廈 6 樓 601 室
ENQUIRY **查詢**	:	Mr CHIU Lap-chi 趙立志先生
TELEPHONE **電話**	:	2562 6690
FAX **傳真**	:	2562 2090
E-MAIL **電郵**	:	mikechiu@diagnostix.com.hk
WEBSITE ADDRESS **網址**	:	www.diagnostix.com.hk
CLIENTELE **服務對象**	:	Private hospitals and clinics 私營醫院和診所

Diagnostix Medical Centre Ltd.
健康化驗中心有限公司

ADDRESS
地址 : Room 601, 6/F, China Insurance Group Building, 141 Des Voeux Road Central, Hong Kong
香港中環德輔道中141號中保集團大廈6樓601室

Collection Centres 樣本收集中心:

1. Room 618, Central Building, 1-3 Pedder Street, Central, Hong Kong
   香港中環畢打街1-3號中建大厦618室
2. Room 911, Phase 1, Argyle Centre, 688 Nathan Road, Mongkok, Kowloon
   九龍旺角彌敦道688號旺角中心第一期911室
3. Room 505, Kornhill Metro Tower, Kornhill Plaza (North), Hong Kong
   香港鰂魚涌康怡廣場北505室
4. Room 733, Nang Fung Centre, 64-98 Sai Lau Kok Road, Tsuen Wan, New Territories
   新界荃灣西樓角路64-98號南豐中心7樓733室
5. Room 705, Melbourne Plaza, 33 Queen's Road Central, Hong Kong
   香港中環皇后大道中33 號萬邦行705室

LABORATORY DIRECTOR
化驗所主管 : **Biomedical Scientist Director 醫務科學主管:**
Dr CHUI Shiu-hon
崔紹漢博士
PhD in Clinical Chemistry, PhD in Chinese Medicine, FIBMS, CChem, FRSC, FHKSCC

PATHOLOGIST IN CHARGE OF THE ACCREDITED DISCIPLINE
負責認可範疇的病理學專科醫生 : Nil

ACCREDITED TEST CATEGORY
認可測試類別 : **Medical Testing 醫務化驗**

Chemical Pathology	化學病理學
Clinical Microbiology and Infection	臨床微生物學及傳染病
Haematology	血液學
Medical Genetics (Molecular Genetics)	醫學遺傳學(分子遺傳學)

Diagnostix Medical Centre Ltd.
健康化驗中心有限公司
Room 601, 6/F, China Insurance Group Building, 141 Des Voeux Road Central, Hong Kong
香港中環德輔道中 141 號中保集團大廈 6 樓 601 室

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology	**General chemistry**		
	Plasma	Glucose by Spectrophotometry	Abbott Alinity c System Glucose assay
	Serum	Albumin by Spectrophotometry	Abbott Alinity c System Albumin BCG2 assay
		Alkaline Phosphatase (ALP) by Spectrophotometry	Abbott Alinity c System Alkaline Phosphatase2 assay
		Alanine Aminotransferase (ALT) by Spectrophotometry	Abbott Alinity c System Alanine ALT2 assay
		Amylase by Spectrophotometry	Abbott Alinity c System Amylase2 assay
		Aspartate Aminotransferase (AST) by Spectrophotometry	Abbott Alinity c System AST2 assay
		Bilirubin, Direct by Spectrophotometry	Abbott Alinity c System Direct Bilirubin assay
		Bilirubin, Total by Spectrophotometry	Abbott Alinity c System Total Bilirubin assay
		Calcium by Spectrophotometry	Abbott Alinity c System Calcium assay
		Chloride by Potentiometry (Ion Selective Electrode)	Abbott Alinity c System Chloride assay
		Cholesterol, Total by Spectrophotometry	Abbott Alinity c System Cholesterol2 assay

Diagnostix Medical Centre Ltd.
健康化驗中心有限公司
Room 601, 6/F, China Insurance Group Building, 141 Des Voeux Road Central, Hong Kong
香港中環德輔道中 141 號中保集團大廈 6 樓 601 室

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology (cont'd)	**General chemistry (cont'd)** Serum (cont'd)	Cholesterol High Density Lipoprotein (HDL) by Spectrophotometry (Direct measurement)	Abbott Alinity c System Ultra HDL assay
		Cholesterol Low Density Lipoprotein (LDL) by - Spectrophotometry	Abbott Alinity c System LDL assay
		- Calculation	Calculation from total cholesterol, direct HDL and triglyceride concentration
		Creatine Kinase (CK) by Spectrophotometry	Abbott Alinity c System Creatine Kinase assay
		CK-MB by Immunoassay (Chemiluminescent label)	Abbott Alinity i System STAT CK-MB assay
		Creatinine by Spectrophotometry	Abbott Alinity c System Creatinine2 assay
		Glutamyl Transferase (GGT) by Spectrophotometry	Abbott Alinity c System GGT2 assay
		Iron by Spectrophotometry	Abbott Alinity c System Iron2 assay
		Lactate Dehydrogenase (LDH) by Spectrophotometry	Abbott Alinity c System LDH2 assay
		Magnesium by Spectrophotometry	Abbott Alinity c System Magnesium assay
		Oral glucose tolerance test by Spectrophotometry	Abbott Alinity c System Glucose assay

Diagnostix Medical Centre Ltd.
健康化驗中心有限公司
Room 601, 6/F, China Insurance Group Building, 141 Des Voeux Road Central, Hong Kong
香港中環德輔道中 141 號中保集團大廈 6 樓 601 室

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology (cont'd)	**General chemistry (cont'd)** Serum (cont'd)	Phosphate by Spectrophotometry	Abbott Alinity c System Phosphate assay
		Potassium by Spectrophotometry	Abbott Alinity c System Potassium assay
		Protein, Total by Spectrophotometry	Abbott Alinity c System Total Protein2 assay
		Sodium by Potentiometry (Ion Selective Electrode)	Abbott Alinity c System Sodium assay
		Triglyceride by Spectrophotometry	Abbott Alinity c System Triglyceride2 assay
		Total Iron Binding Capacity (TIBC) by Calculation	Calculation from Iron2 and UIBC concentration
		Urea by Spectrophotometry	Abbott Alinity c System Urea Nitrogen assay
		Uric acid by Spectrophotometry	Abbott Alinity c System Uric acid2 assay
		Unsaturated Iron Binding Capacity (UIBC) by Spectrophotometry	Abbott Alinity c System UIBC assay

Diagnostix Medical Centre Ltd.
健康化驗中心有限公司
Room 601, 6/F, China Insurance Group Building, 141 Des Voeux Road Central, Hong Kong
香港中環德輔道中 141 號中保集團大廈 6 樓 601 室

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology (cont'd)	**General chemistry (cont'd)** Urine	Albumin by Spectrophotometry	 Abbott Alinity c System Microalbumin assay
		Albumin to creatinine ratio by Calculation	 Calculation from urine albumin and urine creatinine
		Creatinine by Spectrophotometry	 Abbott Alinity c System Creatinine2 assay
		Protein, Total by Spectrophotometry	 Abbott Alinity c System Urine/CSF Protein assay
		Protein, Total to creatinine ratio by Calculation	 Calculation from urine protein, Total and urine creatinine

Diagnostix Medical Centre Ltd.
健康化驗中心有限公司
Room 601, 6/F, China Insurance Group Building, 141 Des Voeux Road Central, Hong Kong
香港中環德輔道中 141 號中保集團大廈 6 樓 601 室

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology (cont'd)	**General chemistry (cont'd)** Urine (cont'd)	Uric acid by Spectrophotometry	Abbott Alinity c System Uric acid2 assay
	Hormones Serum	Cortisol by Immunoassay (Chemiluminescent label)	Abbott Alinity i System Cortisol assay
		Estradiol (E2) by Immunoassay (Chemiluminescent label)	Abbott Alinity i System Estradiol assay
		Follicle Stimulating Hormone (FSH) by Immunoassay (Chemiluminescent label)	Abbott Alinity i System FSH assay
		Luteinising Hormone (LH) by Immunoassay (Chemiluminescent label)	Abbott Alinity i System LH assay
		Progesterone by Immunoassay (Chemiluminescent label)	Abbott Alinity i System Progesterone assay
		Prolactin by Immunoassay (Chemiluminescent label)	Abbott Alinity i System Prolactin assay
		Testosterone by Immunoassay (Chemiluminescent label)	Abbott Alinity i System 2nd Generation Testosterone assay
		Triiodothyronine (T3), Free by Immunoassay (Chemiluminescent label)	Abbott Alinity i System Free T3 assay
		Triiodothyronine (T3), Total by Immunoassay (Chemiluminescent label)	Abbott Alinity i System Total T3 assay
		T-Uptake by Immunoassay (Chemiluminescent label)	Abbott Alinity i System T-Uptake assay

Diagnostix Medical Centre Ltd.
健康化驗中心有限公司
Room 601, 6/F, China Insurance Group Building, 141 Des Voeux Road Central, Hong Kong
香港中環德輔道中 141 號中保集團大廈 6 樓 601 室

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology (cont'd)	**Hormones (cont'd)**		
	Serum (cont'd)	Thyroxine (T4), Free by	
		Immunoassay (Chemiluminescent label)	Abbott Alinity i System Free T4 assay
		Thyroxine (T4), Total by	
		Immunoassay (Chemiluminescent label)	Abbott Alinity i System Total T4 assay
		Thyroid Stimulating Hormone (TSH) by	
		Immunoassay (Chemiluminescent label)	Abbott Alinity i System TSH assay
	Protein, quantitative analysis		
	Serum	Ferritin by	
		Immunoassay (Chemiluminescent label)	Abbott Alinity i System Ferritin assay
	Special chemistry		
	Serum	Folate by	
		Immunoassay (Chemiluminescent label)	Abbott Alinity i System Folate assay
		Vitamin B12 by	
		Immunoassay (Chemiluminescent label)	Abbott Alinity i System B12 assay
		Homocysteine by	
		Immunoassay (Chemiluminescent label)	Abbott Alinity i System Homocysteine assay
		Vitamin D, Total by	
		Immunoassay (Chemiluminescent label)	Abbott Alinity i System 25-OH Vitamin D assay

Diagnostix Medical Centre Ltd.
健康化驗中心有限公司
Room 601, 6/F, China Insurance Group Building, 141 Des Voeux Road Central, Hong Kong
香港中環德輔道中 141 號中保集團大廈 6 樓 601 室

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology (cont'd)	**Special chemistry (cont'd)**		
	Stool	Fecal Occult Blood by	
		Colloidal gold immunecolorimetric method	Alfresa NS Prime Chemistry Analyser with FIT Hemoglobin NS-Prime Test Reagent
	Therapeutic Drug Monitoring		
	Serum	Lithium by	
		Spectrophotometry	Abbott Alinity c System Lithium assay
	Tumour markers		
	Serum	Alpha-foeto Protein (AFP) by	
		Immunoassay (Enzyme based label)	Abbott Alinity i System AFP assay
		CA 15.3 by	
		Immunoassay (Chemiluminescent label)	Abbott Alinity i System CA15-3 assay
		CA 19.9 by	
		Immunoassay (Chemiluminescent label)	Abbott Alinity i System CA19-9XR assay
		CA 125 by	
		Immunoassay (Chemiluminescent label)	Abbott Alinity i System CA125 II assay
		Carcinoembryonic Antigen (CEA) by	
		Immunoassay (Chemiluminescent label)	Abbott Alinity i System CEA assay
		Human Chorionic Gonadotropin (HCG) by	
		Immunoassay (Chemiluminescent label)	Abbott Alinity i System Total Beta-hCG assay

Diagnostix Medical Centre Ltd.
健康化驗中心有限公司
Room 601, 6/F, China Insurance Group Building, 141 Des Voeux Road Central, Hong Kong
香港中環德輔道中 141 號中保集團大廈 6 樓 601 室

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology (cont'd)	**Tumour markers (cont'd)** Serum (cont'd)	Prostate Specific Antigen (PSA), Free by Immunoassay (Chemiluminescent label)	Abbott Alinity i System Free PSA assay
		Prostate Specific Antigen (PSA), Total by Immunoassay (Chemiluminescent label)	Abbott Alinity i System Total PSA assay

Diagnostix Medical Centre Ltd.
健康化驗中心有限公司
Room 601, 6/F, China Insurance Group Building, 141 Des Voeux Road Central, Hong Kong
香港中環德輔道中 141 號中保集團大廈 6 樓 601 室

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Clinical Microbiology and Infection	**Syphilis serology**		
	Serum	Reagin antibodies in response to Treponernal infection by	
		Rapid Plasma Reagin (RPR)	ATI Syphilis RPR test kit Method as documented in LOM-MSC
		Treponema pallidum antibody by	
		Immunoassay (Chemiluminescent label)	Abbott Alinity i System Syphilis TP assay
	Virology - Serology		
	Serum	Hepatitis A virus antibody (IgG) by	
		Immunoassay (Chemiluminescent label)	Abbott Alinity i System HAV Ab-IgG Immunoassay
		Hepatitis B virus Core Antibody (Total) by	
		Immunoassay (Chemiluminescent label)	Abbott Alinity i System Anti-HBc II assay
		Hepatitis B virus surface antibody (Quantitative) by	
		Immunoassay (Chemiluminescent label)	Abbott Alinity i System Anti-HBs Immunoassay
		Hepatitis C virus antibody (Qualitative) by	
		Immunoassay (Chemiluminescent label)	Abbott Alinity i System Anti-HCV assay
		Human immunodeficiency virus (HIV) I p24 antigen/HIV I and II antibodies by	
		Immunoassay (Chemiluminescent label)	Abbott Alinity i System HIV 1/2 Antigen and Antibodies Combo test
		Rubella Antibody (IgG) by	
		Immunoassay (Chemiluminescent label)	Abbott Alinity i System Rubella IgG assay

Diagnostix Medical Centre Ltd.
健康化驗中心有限公司
Room 601, 6/F, China Insurance Group Building, 141 Des Voeux Road Central, Hong Kong
香港中環德輔道中 141 號中保集團大廈 6 樓 601 室

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Virology - Serology (cont'd)** Serum (cont'd)	Hepatitis B virus surface antigen: (Qualitative) by Immunoassay (Chemiluminescent label)	Abbott Alinity i System HBsAg Qualitative II assay Confirmed by Abbott Alinity i System HBsAg Quant assay and/or Abbott Alinity i System HBsAg Qualitative II Confirmatory assay
	Urinalysis and urine microscopy Urine	Urinalysis by dipstick, including - Bilirubin - Blood - Glucose - Ketone - Nitrite - pH - Protein - Specific gravity - Urobilinogen	Beckman Coulter IRIS iChemVELOCITY Method as documented in LOM-Urinalysis
		Urine formed elements by - Microscopic examination with fixed volume in microtitre plate well - Automated urine microscopy system	Method as documented in LOM-Urinalysis Beckman Coulter IRIS iQ200 Method as documented in LOM-Urinalysis

Diagnostix Medical Centre Ltd.
健康化驗中心有限公司
Room 601, 6/F, China Insurance Group Building, 141 Des Voeux Road Central, Hong Kong
香港中環德輔道中 141 號中保集團大廈 6 樓 601 室

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Haematology	**Haematology - General**		
	EDTA whole blood	Complete blood count by automated system, including - Haemoglobin - Haematocrit - Leucocyte count (WBC count) - Mean corpuscular volume (MCV) - Mean corpuscular haemoglobin (MCH) - Mean corpuscular haemoglobin concentration (MCHC) - Platelet count - Red cell count	Sysmex XN-1000 Haematology System Sysmex XN-550 Haematology System
	Haematology - Immunohaematology		
	Clotted blood and EDTA whole blood	ABO and Rh(D) typing by Red cell agglutination	Method as documented in LOM-Haematology

Diagnostix Medical Centre Ltd.
健康化驗中心有限公司
Room 601, 6/F, China Insurance Group Building, 141 Des Voeux Road Central, Hong Kong
香港中環德輔道中 141 號中保集團大廈 6 樓 601 室

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Medical Genetics	**Molecular genetics** Cervical scraping, cervical aspirate, urine, male urethral swabs and female endocervical swabs	Detection of *Chlamydia trachomatis* by Nucleic acid amplification and hybridization, qualitative (Target region: 23S rRNA)	Nucleic acid extraction, amplification and detection by PANTHER using APTIMA Combo 2 Assay
		Detection of *Neisseria gonorrhoeae* by Nucleic acid amplification and hybridization, qualitative (Target region: 16S rRNA)	Nucleic acid extraction, amplification and detection by PANTHER using APTIMA Combo 2 Assay

Hospital Authority - Alice Ho Miu Ling Nethersole Hospital, Department of Pathology
醫院管理局 - 雅麗氏何妙齡那打素醫院病理部

ADDRESS : 1/F, Block C, 11 Chuen On Road, Tai Po, New Territories, Hong Kong
地址 香港新界大埔全安路十一號C座一樓

ENQUIRY : Ms FUNG Pak Ling
查詢 馮栢羚女士

TELEPHONE : 2689 2654
電話

FAX : 2144 1796
傳真

E-MAIL : fpl295@ha.org.hk
電郵

CLIENTELE : Public hospitals
服務對象 公營醫院

Contact details last updated on: 6 May 2025

Hospital Authority - Alice Ho Miu Ling Nethersole Hospital, Department of Pathology
醫院管理局 - 雅麗氏何妙齡那打素醫院病理部

ADDRESS :
地址

Main Facility:

1/F, Block C, 11 Chuen On Road, Tai Po, New Territories, Hong Kong
香港新界大埔全安路十一號C座一樓
(i) Anatomical Pathology Laboratory
(ii) Chemical Pathology Laboratory
(iii) Clinical Microbiology and Infection Laboratory
(iv) Haematology Laboratory and Blood Bank
(v) Emergency Laboratory

B2/F, Block F, 11 Chuen On Road, Tai Po, New Territories, Hong Kong
香港新界大埔全安路十一號 F 座低層二樓
(vi) Mortuary

Branch Facility:

2/F, North District Hospital, 9 Po Kin Road, Sheung Shui, New Territories, Hong Kong
香港新界上水保健路九號北區醫院二樓
(i) Anatomical Pathology Laboratory

LG1, North District Hospital, 9 Po Kin Road, Sheung Shui, New Territories, Hong Kong
香港新界上水保健路九號北區醫院低層一樓
(ii) Mortuary

LABORATORY DIRECTOR
化驗所主管 : **Pathologist Director 病理學主管:**
Dr Renee Constance CHEONG Yue-kew
張裕翹醫生
BSc (Hons), MBBS, MRCP, FRCPath, FHKCPath, FHKAM (Path)

PATHOLOGIST IN CHARGE OF THE ACCREDITED DISCIPLINE
負責認可範疇的病理學專科醫生 :

Anatomical Pathology 解剖病理學
Dr LO Wing-hong 羅永康醫生 (Full-time 全職)

Clinical Microbiology and Infection 臨床微生物學及傳染病
Dr YUK Man-ting 郁文婷醫生 (Consulting 諮詢)

Chemical Pathology 化學病理學
Dr Jeffery KWOK Sung-shing 郭崇聖醫生 (Consulting 諮詢)

Haematology 血液學
Dr Natalie CHAN Pui-ha 陳佩霞醫生 (Consulting 諮詢)

ACCREDITED TEST CATEGORY
認可測試類別 : **Medical Testing 醫務化驗**

Anatomical Pathology 解剖病理學
Chemical Pathology 化學病理學
Clinical Microbiology and Infection 臨床微生物學及傳染病
Haematology 血液學
Immunology 免疫學
Medical Genetics (Molecular Genetics) 醫學遺傳學(分子遺傳學)

Hospital Authority - Alice Ho Miu Ling Nethersole Hospital, Department of Pathology
醫院管理局 - 雅麗氏何妙齡那打素醫院病理部
Mortuary at Main Facility: B2/F, Block F, 11 Chuen On Road, Tai Po, New Territories, Hong Kong
香港新界大埔全安路十一號 F 座低層二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology	**Autopsy** Adult, fetal and perinatal autopsy	Autopsy examination by H&E and special staining	Autopsy method and specimen preparation and handling: Method as documented in AP-TM-11-01, AP-TM-12-04, AA-TM-21-03 Routine staining: Method as documented in AA-TM-41-00: Haematoxylin and Eosin staining Special staining as in Histopathology

Hospital Authority - Alice Ho Miu Ling Nethersole Hospital, Department of Pathology

醫院管理局 - 雅麗氏何妙齡那打素醫院病理部

Anatomical Pathology Laboratory at Main Facility: 1/F, Block C, 11 Chuen On Road, Tai Po, New Territories, Hong Kong

香港新界大埔全安路十一號 C 座一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology	**Cytopathology**		
	Gynaecological specimens	Gynaecological cytology examination by Papanicolaou staining	Specimen preparation and routine staining (both automated and manual) for: ThinPrep + Papanicolaou staining Method as documented in AA-CM-32-01, AA-TM-10-00, AA-TM-30-00, AA-TM-40-00 Manual screening: Method as documented in AA-TM-51-00, AA-TQ-02-00
	Non-gynaecological specimens	Non-gynaecological cytology examination by H&E, Papanicolaou and special staining	Specimen preparation and routine staining of (both Haematoxylin and Eosin stain, and Papanicolaou stain automated and manual method): Method as documented in AA-TM-10-00, AA-TM-30-00, AA-TM-41-00 Special staining (manual method): Method as documented in AA-TM-43-00 and AA-TM-42-02: Differential count by May-Grünwald Giemsa Eosinophil by Haematoxylin and Eosin Haemosiderin by Perls' Prussian Blue Fat-laden macrophages by Oil Red O Method as documented in AA-TM-32-09 Urate crystals by polarization microscopy Method for infectious agents as documented in AA-TM-43-46, AA-TM-46-03: Acid-fast-bacilli by Ziehl-Neelsen Fungi by Grocott's Methenamine Silver Pneumocystis jivorecci by Grocott's Methenamine Silver
	Fine needles aspirates	FNA cytology examination by H&E, Papanicolaou and May-Grünwald-Giemsa staining	Specimen collection, preparation and routine staining (both automated and manual method) by method as documented in AA-TM-32-04, AA-TM-33-05, AA-TM-41-00: Haematoxylin and Eosin stain Papanicolaou stain May-Grünwald-Giemsa stain

Hospital Authority - Alice Ho Miu Ling Nethersole Hospital, Department of Pathology
醫院管理局 - 雅麗氏何妙齡那打素醫院病理部
Anatomical Pathology Laboratory at Main Facility: 1/F, Block C, 11 Chuen On Road, Tai Po, New Territories, Hong Kong
香港新界大埔全安路十一號 C 座一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology (cont'd)	**Histopathology** Surgical pathology and cytological specimens	Histology examination by H&E and special staining	Specimen preparation, with Haematoxylin and Eosin staining: Method as documented in AA-TM-10-00, AA-TM-20-00, AA-TM-41-00, and AA-TM-52-00 Special staining (manual method): Mast cells by Chloroacetate esterase (Pararosanilin): Method as documented in AA-TM-44-05 For infectious agents and other tissue components: Methods as documented in AA-TM-43-00: Acid fast bacilli by Ziehl Neelsen Acidic and neutral mucins by Alcian blue – Periodic Acid Schiff (pH2.5) Amyloid by Congo red (Highman) Amyloid by Crystal violet (Hucker & Conn) Axon, nerve endings, neurofibrillary tangles, neurotic plaques by Bielschowsky's silver Basement membrane by Periodic Acid Silver Methenamine (Gomori's PASM) Bile pigment by Fouchet technique Calcium salts by Alizarin red S - calcium deposits Calcium salts by Von Kossa Collagen and muscle by Masson trichrome Copper by Rhodamine stain Copper by Rubeanic acid Elastic fibres by Victoria blue Ferric iron by Perl's Prussian blue Fibrin by Martius-Scarlet-Blue Glycol groups by Periodic Acid Schiff Gram positive and negative organisms by modified Gram technique Helicobacter pylori by modified Giemsa Hepatitis B affected cells, elastin by Shikata Orcein Lipofuscin by Long Ziehl Neelsen Mast cell granules by Toluidine Blue (Acidified) Melanin, argentaffin, chromaffin cells by Schmorl Melanin, lipofuscin, argentaffin, chromaffin cells by Masson-Fontana silver Mucin, capsule of Cryptococcus neoformans by Southgate's mucicarmine Mucins by Alcian blue (pH 2.5) – hyaluronidase digestion

Hospital Authority - Alice Ho Miu Ling Nethersole Hospital, Department of Pathology
醫院管理局 - 雅麗氏何妙齡那打素醫院病理部
Anatomical Pathology Laboratory at Main Facility: 1/F, Block C, 11 Chuen On Road, Tai Po, New Territories, Hong Kong
香港新界大埔全安路十一號 C 座一樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology (cont'd)	**Histopathology (cont'd)** Surgical pathology and cytological specimens (cont'd)	Histology examination by H&E and special staining (cont'd)	Special staining (manual method) (cont'd): Mycobacteria (M. leprae) by Wade Fite Myelin, Nissl substance by Luxol fast blue Nemaline rods, myofilaments and connective tissue by Gomori one step trichrome pH 3.4 Nerve fibres, argyrophilic substance by Bodians's method (modified) Nissl substance by Cresyl fast violet Periodate reactive carbohydrates by Periodic Acid Schiff digestion Pneumocystic jivorecci, fungi by Grocott hexamine silver technique Reticulin by Gordon & Sweet's technique Spirochaetes, Helicobactor by Warthin Starry Sulphated mucin, hyaluronic acid and sialidase – labile sialomucin by Alcian blue (pH2.5, pH3.2, pH1.0, pH0.5, pH0.2) Unsaturated hydrophobic lipid by Oil red O
	Intra-operative frozen section for fresh tissue specimens and biopsies	Histology examination by H&E staining	Specimen preparation and Haematoxylin and Eosin staining: Method as documented in AA-TM-10-00, AA-TM-25-01, AA-TM-41-00, AA-TM-52-00

Hospital Authority - Alice Ho Miu Ling Nethersole Hospital, Department of Pathology
醫院管理局 - 雅麗氏何妙齡那打素醫院病理部
Anatomical Pathology Laboratory at Main Facility: 1/F, Block C, 11 Chuen On Road, Tai Po, New Territories, Hong Kong
香港新界大埔全安路十一號 C 座一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology (cont'd)	**Histopathology (cont'd)** Fresh tissue specimens and biopsies	Histology examination and enzyme histochemistry by H&E and special staining	Specimen preparation and routine Haematoxylin and Eosin staining (manual method): Method as documented in AA-TM-10-00, AA-TM-21-04, AA-TM-41-00 Special staining (manual method): Method as documented in AA-TM-44-00 For muscle biopsies: Sacroplasmic reticulum mitochondria, muscle fibres by NADH-TR (NBT method)
	Immunohistochemistry Fresh renal, skin biopsies	Immunofluorescence examination by Manual method	Specimen preparation and staining (manual method): Method as documented in AA-TM-45-05 For IgA / IgM / IgG / C1q / Complement 3 / Fibrinogen / Kappa / Lambda

Hospital Authority - Alice Ho Miu Ling Nethersole Hospital, Department of Pathology
醫院管理局 - 雅麗氏何妙齡那打素醫院病理部
Mortuary at Branch Facility: LG1, North District Hospital, 9 Po Kin Road, Sheung Shui, New Territories, Hong Kong
香港新界上水保健路九號北區醫院低層一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology	**Autopsy** Adult, fetal and perinatal autopsy	Autopsy examination by H&E and special staining	Autopsy method and specimen preparation and handling: Method as documented in AP-TM-11-01, AP-TM-12-03, AA-TM-21-03 Routine staining: Method as documented in AA-TM-41-00: Haematoxylin and Eosin staining Special staining as in Histopathology

Hospital Authority - Alice Ho Miu Ling Nethersole Hospital, Department of Pathology
醫院管理局 - 雅麗氏何妙齡那打素醫院病理部
Anatomical Pathology Laboratory at Branch Facility: 2/F, North District Hospital, 9 Po Kin Road, Sheung Shui, New Territories, Hong Kong
香港新界上水保健路九號北區醫院二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology	**Cytopathology** Gynaecological specimens	Gynaecological cytology examination by Papanicolaou staining	Manual screening for liquid- based Gynaecology slides: Method as documented in AA-TM-51-00, AA-TQ-02-00
	Non-gynaecological specimens	Non-gynaecological cytology examination by H&E, Papanicolaou and special staining	Specimen preparation and routine staining of Haematoxylin and Eosin stain, and Papanicolaou stain (manual method): Method as documented in AA-TM-10-00, AA-TM-30-00, AA-TM-41-00 Special staining (manual method): Method as documented in AA-TM-43-00 and: AA-TM-42-02: Differential count by May-Grünwald Giemsa Eosinophil by Haematoxylin and Eosin Haemosiderin by Perls' Prussian Blue Fat-laden macrophages by Oil Red O Method as documented in AA-TM-32-09 Urate crystals by polarization microscopy Method for infectious agents as documented in AA-TM-43-46 and AA-TM-46-03: Acid-fast-bacilli by Ziehl-Neelsen Fungi by Grocott's Methenamine Silver Pneumocystis jivorecci by Grocott's Methenamine Silver
	Fine needles aspirates	FNA cytology examination by H&E, Papanicolaou and May-Grünwald-Giemsa staining	Specimen collection, preparation and routine staining (manual method) by method as documented in AA-TM-34-01, AA-TM-32-04, AA-TM-33-05, AA-TM-41-00, AA-TM-46-07: Haematoxylin and Eosin stain Papanicolaou stain May-Grunwald-Giemsa stain

Hospital Authority - Alice Ho Miu Ling Nethersole Hospital, Department of Pathology
醫院管理局 - 雅麗氏何妙齡那打素醫院病理部
Anatomical Pathology Laboratory at Branch Facility: 2/F, North District Hospital, 9 Po Kin Road, Sheung Shui, New Territories, Hong Kong
香港新界上水保健路九號北區醫院二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology (cont'd)	**Histopathology** Surgical pathology and cytological specimens	Histology examination by H&E and special staining	Specimen preparation, with Haematoxylin and Eosin staining: Method as documented in AA-TM-10-00, AA-TM-20-00, AA-TM-41-00, AA-TM-52-00 Special staining (manual method): Mast cells by Chloroacetate esterase (Pararosanilin): Method as documented in AA-TM-44-05 For infectious agents and other tissue components: Methods as documented in AA-TM-43-00: Acid fast bacilli by Ziehl Neelsen Acidic and Neutral mucins by Alcian Blue / Periodic Acid Schiff (pH 2.5) Amyloid by Congo red (Highman) Amyloid by Crystal violet (Hucker & Conn) Axon, nerve endings, neurofibrillary tangles, neurotic plaques by Bielschowsky's silver Basement membrane by Periodic Acid Silver Methenamine (Gomori's PASM) Bile pigment by Fouchet technique Calcium salts by Alizarin red S - calcium deposits Calcium salts by Von Kossa Collagen and muscle by Masson trichrome Copper by Rhodamine stain Copper by Rubeanic acid Elastic fibres by Victoria blue Ferric iron by Perls' Prussian blue Fibrin by Martius-Scarlet-Blue Glycol groups by Periodic Acid Schiff Gram positive and negative organisms by modified Gram technique Helicobacter pylori by modified Giemsa Hepatitis B affected cells, elastin by Shikata Orcein Lipofuscin by Long Ziehl Neelsen Mast cell granules by Toluidine Blue (Acidified) Melanin, argentaffin, chromaffin cells by Schmorl Melanin, lipofuscin, argentaffin, chromaffin cells by Masson-Fontana silver Mucin, capsule of Cryptococcus neoformans by Southgate's mucicarmine

Hospital Authority - Alice Ho Miu Ling Nethersole Hospital, Department of Pathology
醫院管理局 - 雅麗氏何妙齡那打素醫院病理部
Anatomical Pathology Laboratory at Branch Facility: 2/F, North District Hospital, 9 Po Kin Road, Sheung Shui, New Territories, Hong Kong
香港新界上水保健路九號北區醫院二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology (cont'd)	**Histopathology (cont'd)** Surgical pathology and cytological specimens (cont'd)	Histology examination by H&E and special staining (cont'd)	Special staining (manual method) (cont'd): Mucins by Alcian blue (pH 2.5) – hyaluronidase digestion Mycobacteria (M. leprae) by Wade Fite Myelin, Nissl substance by Luxol fast blue (modified) Nemaline rods, myofilaments and connective tissue by Gomori one step trichrome pH 3.4 Nerve fibres, argyrophilic substance by Bodians's method (modified) Nissl substance by Cresyl fast violet Periodate reactive carbohydrates by Periodic Acid Schiff digestion Pneumocystic jivorecci, fungi by Grocott hexamine silver technique Reticulin by Gordon & Sweet's technique Spirochaetes, Helicobactor by Warthin Starry Sulphated mucin, hyaluronic acid and sialidase – labile sialomucin by Alcian blue (pH2.5, pH3.2, pH1.0, pH0.5, pH0.2) Unsaturated hydrophobic lipid by Oil Red O
	Intra-operative frozen section for fresh tissue specimens and biopsies	Histology examination by H&E staining	Specimen preparation and Haematoxylin and Eosin staining: Method as documented in AA-TM-10-00, AA-TM-25-01, AA-TM-41-00, AA-TM-52-00

Hospital Authority - Alice Ho Miu Ling Nethersole Hospital, Department of Pathology
醫院管理局 - 雅麗氏何妙齡那打素醫院病理部
Anatomical Pathology Laboratory at Branch Facility: 2/F, North District Hospital, 9 Po Kin Road, Sheung Shui, New Territories, Hong Kong
香港新界上水保健路九號北區醫院二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology (cont'd)	**Histopathology (cont'd)**		
	Fresh tissue specimens and biopsies	Histology examination and enzyme histochemistry by	
		H&E and special staining	Specimen preparation and routine Haematoxylin and Eosin staining (manual method): Method as documented in AA-TM-10-00, AA-TM-21-04, AA-TM-41-00 Special staining (manual method): Method as documented in AA-TM-44-00 For muscle biopsies: Sacroplasmic reticulum mitochondria, muscle fibres by NADH-TR (NBT method)
	Immunohistochemistry		
	Renal, skin biopsies	Immunofluorescence examination by	
		Manual method	Specimen preparation and staining (manual method): Method as documented in AA-TM-45-05 For IgA / IgM / IgG / C1q / Complement 3 / Fibrinogen / kappa / lambda
	Histological and cytological specimen	Immunohistochemical examination for various antigen markers by	
		Automated method	Slide preparation and staining (automated method) as documented in AA-TM-44-00, AA-TQ-02-00 Detection system: BOND Polymer Refine Detection Antigen retrieval: Heat retrieval+/- enzymatic digestion and on-board retrieval by Leica Bond-III immunostainer

Hospital Authority - Alice Ho Miu Ling Nethersole Hospital, Department of Pathology
醫院管理局 - 雅麗氏何妙齡那打素醫院病理部
Anatomical Pathology Laboratory at Branch Facility: 2/F, North District Hospital, 9 Po Kin Road, Sheung Shui, New Territories, Hong Kong
香港新界上水保健路九號北區醫院二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics	**Molecular Genetics**		
	Histological and cytological specimen	Epstein Barr Virus Detection by In-situ hybridization	Slide preparation and staining (automated method) by Leica Bond-III immunostainer as documented in AA-TM-45-11 Detection System: Bond Polymer Refine Detection
	Formalin fixed paraffin embedded tissue	Amplification of Erb-B2 receptor tyrosine kinase 2 (ERBB2) – HER2 by Fluorescence In-situ Hybridization (FISH)	Manual method with HER2 IQFISH pharmDx assay Method as documented in AA-TM-46-01/01

Hospital Authority - Alice Ho Miu Ling Nethersole Hospital, Department of Pathology
醫院管理局 - 雅麗氏何妙齡那打素醫院病理部

Testing location: Room 524A, Molecular Diagnostic Laboratory, 5/F, Cancer Center, Prince of Wales Hospital, Shatin, N.T. H.K.
香港新界沙田威爾斯親王醫院包玉剛癌症中心五樓 524A 室分子診斷實驗室

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics (cont'd)	**Molecular Genetics (cont'd)** Formalin fixed paraffin embedded tissue	Amplification of Erb-B2 receptor tyrosine kinase 2 (ERBB2) – HER2 by Fluorescence In-situ Hybridization (FISH)	Analysis with BioView FISH Instrumentation

Hospital Authority - Alice Ho Miu Ling Nethersole Hospital, Department of Pathology
醫院管理局 - 雅麗氏何妙齡那打素醫院病理部
Chemical Pathology Laboratory: 1/F, Block C, 11 Chuen On Road, Tai Po, New Territories, Hong Kong
香港新界大埔全安路十一號 C 座一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology	**Blood gas and co-oximetry**		
	Whole blood, body fluid	Bicarbonate by Calculation	Siemens blood gases analyser 1200 series
		Chloride by Potentiometry (Ion-Selective Electrode)	Siemens blood gases analyser 1200 series
	Whole blood	Base Excess-vt by Calculation	Siemens blood gases analyser 1200 series
		Carboxyhaemoglobin by Co-oximetry	Siemens blood gases analyser 1200 series
		Ionized calcium by Potentimetry (Ion-Selective Electrode)	Siemens blood gases analyser 1200 series
		Methaemoglobin by Co-oximetry	Siemens blood gases analyser 1200 series
		O_2 Saturation by Calculation	Siemens blood gases analyser 1200 series
		Oxyhaemoglobin by Co-oximetry	Siemens blood gases analyser 1200 series
		pCO_2 by Potentiometry (pCO_2 -Sensing Electrode)	Siemens blood gases analyser 1200 series
		pH by Potentiometry (Ion-Selective Electrode)	Siemens blood gases analyser 1200 series
		pO_2 by Potentiometry (Oxygen-Sensing Amperometric Electrode)	Siemens blood gases analyser 1200 series
	General chemistry		
	Plasma, body fluid	Alanine transaminase (ALT) by Spectrophotometry	Beckman Coulter AU5800 analyser ALT3M Assay
		Albumin by Spectrophotometry	Beckman Coulter AU5800 analyser ALB1N Assay
	Plasma	Albumin adjusted calcium by Calculation	Beckman Coulter AU5800 analyser (Calculated from albumin and calcium)

Hospital Authority - Alice Ho Miu Ling Nethersole Hospital, Department of Pathology
醫院管理局 - 雅麗氏何妙齡那打素醫院病理部
Chemical Pathology Laboratory: 1/F, Block C, 11 Chuen On Road, Tai Po, New Territories, Hong Kong
香港新界大埔全安路十一號 C 座一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**General chemistry (cont'd)**		
	Urine	Albumin by Turbidimetry	Beckman Coulter AU5800 analyser ULB1G Assay
		Albumin and Creatinine ratio by Calculation	Beckman Coulter AU5800 analyser (Calculated from albumin and calcium)
	Plasma, body fluid	Alkaline Phosphatase (ALP) by Spectrophotometry	Beckman Coulter AU5800 analyser ALP1N Assay
	Plasma, urine, body fluid	Amylase by Spectrophotometry	Beckman Coulter AU5800 analyser AMY2N Assay
	Plasma, urine	Amylase:Creatinine clearance ratio by Calculation	Beckman Coulter AU5800 analyser (Calculated from plasma, urine amylase and creatinine concentration)
	Plasma, body fluid	Aspartate Amino Transferase (AST) by Spectrophotometry	Beckman Coulter AU5800 analyser AST3N Assay
		Bilirubin, Direct by Spectrophotometry	Beckman Coulter AU5800 analyser DBC1N Assay
		Bilirubin, Total by Spectrophotometry	Beckman Coulter AU5800 analyser TBC1N Assay
	Plasma	Bilirubin, Neonatal by Spectrophotometry	Beckman Coulter AU5800 analyser TBC1N Assay
	Plasma, urine, body fluid	Calcium by Spectrophotometry	Beckman Coulter AU5800 analyser CAZ1N Assay
	Plasma, body fluid	Chloride by Potentiometry (Indirect Ion-Selective Electrode Method)	Beckman Coulter AU5800 analyser Chloride Assay

Hospital Authority - Alice Ho Miu Ling Nethersole Hospital, Department of Pathology
醫院管理局 - 雅麗氏何妙齡那打素醫院病理部
Chemical Pathology Laboratory: 1/F, Block C, 11 Chuen On Road, Tai Po, New Territories, Hong Kong
香港新界大埔全安路十一號 C 座一樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**General chemistry (cont'd)**		
	Plasma, body fluid	Cholesterol by Spectrophotometry	Beckman Coulter AU5800 analyser CHO1N Assay
	Plasma	Cholesterol, high density lipoproteins (HDL) by Spectrophotometry	Beckman Coulter AU5800 analyser HDL1N Assay
		Cholesterol, low density lipoproteins (LDL) by Spectrophotometry	Beckman Coulter AU5800 analyser (Calculated using Friedewald Formula)
	Plasma, body fluid	Creatine kinase by Spectrophotometry	Beckman Coulter AU5800 analyser CKN1N Assay
	Plasma	Creatinine by Spectrophotometry	Beckman Coulter AU5800 analyser CRE3N Assay
	Urine, body fluid	Creatinine by Sepctrophotometry	Beckman Coulter AU5800 analyser CRE3N Assay
	Plasma, urine	Creatinine clearance by Calculation	Beckman Coulter AU5800 analyser (Calculated from plasma and urine creatinine)
	Plasma, body fluid	Gamma glutamyl transferase (GGT) by Spectrophotometry	Beckman Coulter AU5800 analyser GGT2N Assay
	Plasma	Globulin by Calculation	Beckman Coulter AU5800 analyser (Calculated from Total Protein and Albumin)
	Plasma, body fluid, CSF	Glucose by Spectrophotometry	Beckman Coulter AU5800 analyser GLU1N Assay
	Plasma	Glucose, Fasting by Spectrophotometry	Beckman Coulter AU5800 analyser GLU1N Assay
		Iron by Spectrophotometry	Beckman Coulter AU5800 analyser FE-1N Assay

Hospital Authority - Alice Ho Miu Ling Nethersole Hospital, Department of Pathology
醫院管理局 - 雅麗氏何妙齡那打素醫院病理部
Chemical Pathology Laboratory: 1/F, Block C, 11 Chuen On Road, Tai Po, New Territories, Hong Kong
香港新界大埔全安路十一號 C 座一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**General chemistry (cont'd)**		
	Plasma (cont'd)	Iron Saturation, % by Calculation	Beckman Coulter AU5800 analyser Calculated from Iron and TIBC
	Plasma, body fluid, CSF	Lactate Dehydrogenase (LDH) by Spectrophotometry	Beckman Coulter AU5800 analyser LDH3N Assay
	Plasma, body fluid	Magnesium by Spectrophotometry	Beckman Coulter AU5800 analyser MG-1N Assay
	Plasma	Estimated Glomerular Filtration Rate (eGFR) by Calculation	Beckman Coulter AU5800 analyser CRE3N Assay (Calculated by using CKD-EPI formula)
	Stool	Occult blood by Latex Agglutination Reaction	Alfresa NS-Prime Chemistry Analyser with FIT Haemoglobin NS-Prime Test Reagent
	Serum, urine	Osmolality by Freezing point depression	Arkray OM 6060
	Urine, body fluid except pleural fluid	pH by Potentiometry (Ion-Selective Electrode)	pH meter
	Plasma, urine, body fluid	Phosphate by Spectrophotometry	Beckman Coulter AU5800 analyser PHO1N Assay
		Potassium by Potentiometry (Indirect Ion-Selective Electrode Method)	Beckman Coulter AU5800 analyser Potassium Assay
	Plasma, body fluid	Protein, Total by Spectrophotometry	Beckman Coulter AU5800 analyser TP-1N Assay
	Urine, CSF	Protein, Total by Spectrophotometry	Beckman Coulter AU5800 analyser UCP1N Assay
	Urine	Protein:Creatinine ratio by Calculation	Beckman Coulter AU5800 analyser (Calculated from spot urine, Total Protein, and Creatinine)

Hospital Authority - Alice Ho Miu Ling Nethersole Hospital, Department of Pathology
醫院管理局 - 雅麗氏何妙齡那打素醫院病理部
Chemical Pathology Laboratory: 1/F, Block C, 11 Chuen On Road, Tai Po, New Territories, Hong Kong
香港新界大埔全安路十一號 C 座一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**General chemistry (cont'd)**		
	Plasma, urine, body fluid	Sodium by Potentiometry (Indirect Ion-Selective Electrode Method)	Beckman Coulter AU5800 analyser Sodium Assay
	Plasma	Total Iron Binding Capacity (TIBC) by Calculation	Beckman Coulter AU5800 analyser (Calculated from Iron and UIBC)
	Plasma, body fluid	Trigycerides by Spectrophotometry	Beckman Coulter AU5800 analyser TRG1N Assay
	Plasma	Troponin I by Immunoassay (Chemiluminescent label)	Beckman Coulter UniCel DxI 800 Access hsTnI Assay
		Unsaturated Iron Binding Capacity (UIBC) by Spectrophotometry	Beckman Coulter AU5800 analyser UBC1N Assay
	Plasma, urine, body fluid	Urate by Spectrophotometry	Beckman Coulter AU5800 analyser UA-1N Assay
		Urea by Spectrophotometry	Beckman Coulter AU5800 analyser BUN1N Assay

Hospital Authority - Alice Ho Miu Ling Nethersole Hospital, Department of Pathology
醫院管理局 - 雅麗氏何妙齡那打素醫院病理部
Chemical Pathology Laboratory: 1/F, Block C, 11 Chuen On Road, Tai Po, New Territories, Hong Kong
香港新界大埔全安路十一號 C 座一樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**Hormones**		
	Serum	Cortisol by Immunoassay (Chemiluminescent label)	Beckman Coulter UniCel DxI 800 Access Cortisol Assay
	Plasma	Parathyroid hormone by Immunoassay (Chemiluminescent label)	Beckman Coulter UniCel DxI 800 Access Intact PTH Assay
	Serum	Thyroxine, Free by Immunoassay (Chemiluminescent label)	Beckman Coulter UniCel DxI 800 Access Free T4 Assay
		Thyroid stimulating hormone by Immunoassay (Chemiluminescent label)	Beckman Coulter UniCel DxI 800 Access TSH (3rd IS) Assay
		Triiodothyronine, Free by Immunoassay (Chemiluminescent label)	Beckman Coulter UniCel DxI 800 Access Free T3 Assay

Hospital Authority - Alice Ho Miu Ling Nethersole Hospital, Department of Pathology
醫院管理局 - 雅麗氏何妙齡那打素醫院病理部
Chemical Pathology Laboratory: 1/F, Block C, 11 Chuen On Road, Tai Po, New Territories, Hong Kong
香港新界大埔全安路十一號 C 座一樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**Proteins, quantitative analysis**		
	Plasma	C Reactive protein by Immunoturbidimetry	Beckman Coulter AU5800 analyser CRP1N Assay
	Serum	Ferritin by Immunoassay (Chemiluminescent label)	Beckman Coulter UniCel DxI 800 Access Ferritin Assay
	Proteins, qualitative analysis		
	Serum	Cryoglobulin by Precipitation in cold	Method as documented in AC-TM-03-35
	Special chemistry		
	Plasma	Ammonia by Spectrophotometry	Beckman Coulter AU5800 analyser Ammonia Assay
	Urine, body fluid	Chyle by Microscopy	Method using Oil red O stain as documented in AC-TM-03-21
	Serum	Folate by Immunoassay (Chemiluminescent label)	Beckman Coulter UniCel DxI 800 Access Folate Assay
	Whole blood	Haemoglobin A1c by Immunoassay	Cobas c 513 A1CX3 Assay
	Plasma, CSF	Lactate by Spectrophotometry	Beckman Coulter AU5800 analyser LAC1N Assay
	Urine	Porphobilinogen by Colorimetric measurement (Ehrlich's reagent)	Method as documented in AC-TM-16-07
		Porphyrin by Fluorometric detection	Method as documented in AC-TM-16-08

Hospital Authority - Alice Ho Miu Ling Nethersole Hospital, Department of Pathology
醫院管理局 - 雅麗氏何妙齡那打素醫院病理部
Chemical Pathology Laboratory: 1/F, Block C, 11 Chuen On Road, Tai Po, New Territories, Hong Kong
香港新界大埔全安路十一號 C 座一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**Therapeutic drug monitoring**		
	Serum	Digoxin by Immunoassay (Chemiluminescent label)	Beckman Coulter AU5800 analyser DIG1N Assay
		Lithium by Spectrophotometry	Beckman Coulter AU5800 analyser Lithium Assay
	Plasma	Phenytoin by Spectrophotometry	Beckman Coulter AU5800 analyser Phenytoin Assay
		Theophylline by Spectrophotometry	Beckman Coulter AU5800 analyser Theophylline Assay
		Valproic acid by Spectrophotometry	Beckman Coulter AU5800 analyser Valproic acid Assay
	Toxicology		
	Serum	Acetaminophen (Paracetamol) by Spectrophotometry	Beckman Coulter AU5800 analyser Acetaminophen Assay
		Ethanol by Spectrophotometry	Beckman Coulter AU5800 analyser Ethanol Assay
		Salicylate by Spectrophotometry	Beckman Coulter AU5800 analyser Salicylic acid Assay
	Tumour markers		
	Serum, body fluid	Alpha-feto protein (AFP) by Immunoassay (Chemiluminescent label)	Beckman Coulter UniCel DxI 800 Access AFP Assay
		Carcino-embryonic antigen (CEA) by Immunoassay (Chemiluminescent label)	Beckman Coulter UniCel DxI 800 Access CEA Assay
	Serum	Prostatic specific antigen (PSA) by Immunoassay (Chemiluminescent label)	Beckman Coulter UniCel DxI 800 Access Hybritech PSA Assay

Hospital Authority - Alice Ho Miu Ling Nethersole Hospital, Department of Pathology
醫院管理局 - 雅麗氏何妙齡那打素醫院病理部
Chemical Pathology Laboratory: 1/F, Block C, 11 Chuen On Road, Tai Po, New Territories, Hong Kong
香港新界大埔全安路十一號 C 座一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**Urinalysis** Urine	Urinalysis by dipstick - Bilirubin - Haemoglobin - Ketone - Myoglobin - Urobilinogen	Urisys 1100 Roche Combur 10

Hospital Authority - Alice Ho Miu Ling Nethersole Hospital, Department of Pathology
醫院管理局 - 雅麗氏何妙齡那打素醫院病理部
Microbiology Laboratory: 1/F, Block C, 11 Chuen On Road, Tai Po, New Territories, Hong Kong
香港新界大埔全安路十一號 C 座一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection	**Bacteriology - Culture and sensitivity test and Gram microscopy**		
	Blood	Culture and antimicrobial susceptibility tests for pathogen by Aerobic and anaerobic broth culture	Bactec FX Identification of isolates: Method as documented in AM-TM-02-01 Antimicrobial susceptibility tests: Agar disk diffusion method and E-test (MIC for *Strept. pneumoniae and Neisseria meningitidis*) as documented in AM-TM-12-01, AM-TM-12-02
	CSF, sterile body fluid such as knee and joint fluid, CAPD, peritoneal fluid	Microscopy for Bacteria by Gram stain Cell morphology by lytic stain	Method as documented in AM-TM-03-01
		Culture and antimicrobial susceptibility tests for pathogen by Aerobic, CO_2, anaerobic and broth culture	Culture and Identification of isolates: Method as documented in AM-TM-03-01 Antimicrobial susceptibility tests: Agar disk diffusion method and E-test (MIC for *Strept. pneumoniae and Neisseria meningitidis*) as documented in AM-TM-12-01, AM-TM-12-02
	Enteric samples (stool and rectal swab)	Culture and antimicrobial susceptibility test for enteric pathogens by Aerobic, microaerophilic and broth culture	Culture and Identification of isolates: Method as documented in AM-TM-08-01 Antimicrobial susceptibility tests: Agar disk diffusion method as documented in AM-TM-12-01, AM-TM-12-02
		Culture and antimicrobial susceptibility test for specific pathogens or those with clinical indications by Aerobic and broth culture for: • *Escherichia coli O157* • *Yersinia* species • *Staphylcoccus aureus* • *Clostridium perfringens* • *Bacillus cereus* • Vancomycin resistant *Enterococci* • Carbapenem resistant Enterobacteriaceae	Culture and Identification of isolates: Method as documented in AM-TM-08-01, AM-TM-08-03, AM-TM-08-04 Antimicrobial susceptibility tests: Agar disk diffusion method as documented in AM-TM-12-01, AM-TM-12-02

Hospital Authority - Alice Ho Miu Ling Nethersole Hospital, Department of Pathology
醫院管理局 - 雅麗氏何妙齡那打素醫院病理部
Microbiology Laboratory: 1/F, Block C, 11 Chuen On Road, Tai Po, New Territories, Hong Kong
香港新界大埔全安路十一號 C 座一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Bacteriology – Culture and sensitivity test and Gram microscopy (cont'd)**		
	Genital samples	Microscopy for cell morphology and bacteria by Gram stain	Method as documented in AM-TM-05-04
		Culture and antimicrobial susceptibility test for genital pathogens (except Chlamydia) by Aerobic and CO_2 culture	Culture and Identification of isolates: Method as documented in AM-TM-05-04 Antimicrobial susceptibility tests: Agar disk diffusion method as documented in AM-TM-12-01, AM-TM-12-02
	Miscellaneous samples (including pus, body fluid, tissue, swabs, catheters, eye specimens, etc.)	Microscopy for Bacteria and semi-quantitative WBC by Gram stain	Method as documented in AM-TM-05-01
		Culture and antimicrobial susceptibility test for pathogens by Aerobic, CO_2, anaerobic, and broth culture	Culture and Identification of isolates: Method as documented in AM-TM-05-01 Antimicrobial susceptibility tests: Agar disk diffusion method as documented in AM-TM-12-01, AM-TM-12-02
		Culture and antimicrobial susceptibility test for specific pathogens or those with clinical indications by Aerobic, CO_2, anaerobic, and broth culture • *Neisseria gonorrheae* • *Nocardia species* • *Atypical Mycobacterium species* • *Actinomyces species*	Culture and Identification of isolates: Method as documented in AM-TM-05-01 Antimicrobial susceptibility tests: Agar disk diffusion method as documented in AM-TM-12-01, AM-TM-12-02
	Lower respiratory tract samples (including sputum, bronchial aspirate, tracheal aspirate, lung biopsy, etc.)	Microscopy for cell morphology and bacteria by Gram stain	Method as documented in AM-TM-07-01
		Culture and antimicrobial susceptibility test for pathogens by Aerobic, CO_2, and anaerobic culture	Culture and Identification of isolates: Method as documented in AM-TM-07-01 Antimicrobial susceptibility tests: Agar disk diffusion method as documented in AM-TM-12-01, AM-TM-12-02

Hospital Authority - Alice Ho Miu Ling Nethersole Hospital, Department of Pathology
醫院管理局 - 雅麗氏何妙齡那打素醫院病理部
Microbiology Laboratory: 1/F, Block C, 11 Chuen On Road, Tai Po, New Territories, Hong Kong
香港新界大埔全安路十一號 C 座一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Bacteriology – Culture and sensitivity test and Gram microscopy (cont'd)**		
	Lower respiratory tract samples (including sputum, bronchial aspirate, tracheal aspirate, lung biopsy, etc.) (cont'd)	Culture and antimicrobial susceptibility test for specific pathogens or those with clinical indications by Aerobic, CO_2, and anaerobic culture	Culture and Identification of isolates: Method as documented in AM-TM-07-01 Antimicrobial susceptibility tests: Agar disk diffusion method as documented in AM-TM-12-01, AM-TM-12-02
	Bronchoscopic specimens (including bronchial aspirate, bronchoalveolar lavage (BAL), bronchial brushing / bronchial washing, etc)	Microscopy for cell morphology and bacteria by Gram stain	Method as documented in AM-TM-07-01
		Quantitative culture and antimicrobial susceptibility test by Aerobic, CO_2, and anaerobic culture	Culture and Identification of isolates: Method as documented in AM-TM-07-01 Antimicrobial susceptibility tests: Agar disk diffusion method and E-test (MIC for *Strept. pneumoniae*) as documented in AM-TM-12-01, AM-TM-12-02
	Upper respiratory tract samples (including throat swab, oral swab, nasal swab/pus/discharges, etc)	Culture and antimicrobial susceptibility test for respiratory tract pathogens by Aerobic, CO_2, and anaerobic culture	Culture and Identification of isolates: Method as documented in AM-TM-07-01 Antimicrobial susceptibility tests: Agar disk diffusion method as documented in AM-TM-12-01, AM-TM-12-02
		Culture and antimicrobial susceptibility test for specific pathogens or those with clinical indications by Aerobic culture for Methicillin resistant *Staphylococcus aureus* (MRSA)	Culture and Identification of isolates: Method as documented in AM-TM-07-01 Antimicrobial susceptibility tests: Agar disk diffusion method as documented in AM-TM-12-01, AM-TM-12-02
	Urine	Urine formed elements and semi-quantitative cell count by Microscopic examination with fixed volume in microtitre plate well	Method as documented in AM-TM-09-01

Hospital Authority - Alice Ho Miu Ling Nethersole Hospital, Department of Pathology
醫院管理局 - 雅麗氏何妙齡那打素醫院病理部
Microbiology Laboratory: 1/F, Block C, 11 Chuen On Road, Tai Po, New Territories, Hong Kong
香港新界大埔全安路十一號 C 座一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Bacteriology – Culture and sensitivity test and Gram microscopy (cont'd)**		
	Urine (cont'd)	Culture and antimicrobial sensitivity test for urinary pathogens by - Standard loop method - Dipslide (as received)	Culture and Identification of isolates: Method as documented in AM-TM-09-01 Antimicrobial susceptibility tests: Agar disk diffusion method as documented in AM-TM-12-01, AM-TM-12-02
	Clinical isolates	Identification of clinical isolates by MALDI-TOF Mass Spectrometry	Method as documented in AM-TM-21-01 using bioMerieux VITEK MS
	Bacteriology – Serology		
	Salmonella isolates	Serotyping of *Salmonella* species by Slide agglutination test	Method as documented in AM-TM-08-01
	Shigella flexneri isolates	Serotyping of *Shigella flexneri* by Slide agglutination test	Method as documented in AM-TM-08-01
	Urine	*Streptococcus pneumoniae* antigen detection by Immunochromatographic assay	Binax NOW@ *Streptococcus pneumoniae* Urinary Antigen Kit, method as documented in AM-TM-09-02

Hospital Authority - Alice Ho Miu Ling Nethersole Hospital, Department of Pathology
醫院管理局 - 雅麗氏何妙齡那打素醫院病理部
Microbiology Laboratory: 1/F, Block C, 11 Chuen On Road, Tai Po, New Territories, Hong Kong
香港新界大埔全安路十一號 C 座一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Microscopy – Miscellaneous**		
	CSF, sterile body fluid such as knee and joint fluid, CAPD, peritoneal fluid	Microscopy for Cell count by Counting chamber	Method as documented in AM-TM-03-01
	Sterile body fluid	White cell count by Automated method, inlcluding - Total - Differential - polymorphonucleated - mononucleated	Sysmex XN-350 autoanalyser
	Mycology – Culture, identification and serology		
	CSF, serum	*Cryptococcal* antigen by Semi-quantitative lateral flow assay	IMMY Cryptococcal antigen lateral flow assay Method as documented in AM-TM-05-01
	Miscellaneous specimens	Culture for yeast by Aerobic culture	Method as documented in AM-TM-05-01
	Urine	Culture for fungi by Aerobic culture	Method as documented in AM-TM-09-01

Hospital Authority - Alice Ho Miu Ling Nethersole Hospital, Department of Pathology
醫院管理局 - 雅麗氏何妙齡那打素醫院病理部
Microbiology Laboratory: 1/F, Block C, 11 Chuen On Road, Tai Po, New Territories, Hong Kong
香港新界大埔全安路十一號 C 座一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Mycology – Microscopy**		
	CSF, sterile body fluid such as knee and joint fluid, CAPD, peritoneal fluid	Microscopy for encapsulated yeast by Negative stain (India ink or 10% Nigrosin)	Method as documented in AM-TM-03-01
	Dermatological sample including skin, nail, hair specimens, etc.	Microscopy for fungal elements by KOH smear	Method as documented in AM-TM-05-02
	Parasitology – Microscopy and staining		
	Stool, urine	Microscopy for enteric parasites, ova and cysts by Direct wet smear and Smear after formalin-ethyl acetate concentration	Method as documented in AM-TM-08-02
		Microscopy for *Microsporidia* spores, *Cryptosporidium*, *Isospora*, *Cyclospora* oocysts by Modified Ziehl-Neelsen and Trichrome stain	Method as documented in AM-TM-08-02
	Stool, liver abscess, urine	Microscopy for amoeba by Direct wet smear	Method as documented in AM-TM-08-02
	Bile, Jejunostomy and ileostomy fluids	Microscopy for enteric parasites and ova by Direct wet smear or smear of centrifuged deposit	Method as documented in AM-TM-05-01
	Skin scrapings	Examination for scabies by KOH smear	Method as documented in AM-TM-05-03

Hospital Authority - Alice Ho Miu Ling Nethersole Hospital, Department of Pathology

醫院管理局 - 雅麗氏何妙齡那打素醫院病理部

Microbiology Laboratory: 1/F, Block C, 11 Chuen On Road, Tai Po, New Territories, Hong Kong

香港新界大埔全安路十一號 C 座一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics	**Molecular Genetics (microbiology)**		
	Nasopharyngeal aspirate/ swab	Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) – detection by Reverse Transcription and Real-time Polymerase Chain Reaction, qualitative (Target region: N2 and E genes)	Xpert® Xpress SARS-CoV-2 assay Nucleic acid extraction, amplification and detection by Cepheid GeneXpert system Method as documented in AM-TM-23-01/04
	Nasopharyngeal aspirate/ swab, nasopharyngeal aspirate/swab with throat swab	Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2), Influenza A virus, Influenza B virus and respiratory syncytial virus – detection by Reverse Transcription and Real time Polymerase Chain Reaction, qualitative (Target region: SARS-CoV-2: E gene and N gene Influenza A virus: M gene, PB2 gene and PA gene RSV: RSV A and RSV B nucleocapsid gene)	Cepheid Xpress SARS-CoV-2/Flu/RSV Assay Nucleic acid amplification and detection of SARS-CoV-2, Influenza A, Influenza B and Respiratory Syncytial viral RNA in Cepheid GeneXpert System. Method as documented in AM-TM-23-01
	Nasopharyngeal swab	Respiratory viral nucleic acid detection by Multiplex Polymerase Chain Reaction, qualitative (Target region: Adenovirus, Coronavirus 229E, Coronavirus HKU1, Coronavirus NL63, Coronavirus OC43, MERS-CoV, SARS-CoV-2, Human metapneumovirus, Human rhinovirus/enterovirus, Influenza A virus subtype H1, H3, H1-2009, Influenza B virus, Parainfluenza virus 1, Parainfluenza virus 2, Parainfluenza virus 3, Parainfluenza virus 4, Respiratory syncytial virus, Bordetella pertussis, Bordetella parapertussis, Chlamydia pneumonia, and Mycoplasma pneumoniae)	BioFire Respiratory Panel 2.1 (RP2.1 plus) Nucleic acid extraction, amplification and detection by BioFire Respiratory Panel 2.1 (RP2.1 plus) Method as documented in AM-TM-23-02 Respiratory Pathogens Detection by FilmArray Respiratory and CoV Panel

Hospital Authority - Alice Ho Miu Ling Nethersole Hospital, Department of Pathology
醫院管理局 - 雅麗氏何妙齡那打素醫院病理部
Microbiology Laboratory: 1/F, Block C, 11 Chuen On Road, Tai Po, New Territories, Hong Kong
香港新界大埔全安路十一號 C 座一樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics (cont'd)	**Molecular Genetics (microbiology) (cont'd)**		
	Blood culture positive broth with Gram positive cocci in cluster	Detection of Methicillin-Sensitive *Staphylococcus aureus* (MSSA) / Methicillin-Resistant *Staphylococcus aureus* (MRSA) by Real time Polymerase Chain Reaction, qualitative (Target regions: Staphylococcal protein A (*spa*) gene, Methicillin resistant *mecA* gene, Staphylococcal cassette chromosome *mec* (SCC*mec*))	Xpert MRSA/SA Blood Culture Assay Nucleic acid amplification and detection by Cepheid GeneXpert Systems (Gx-4/GX-Infinity) Method as documented in AM-TM-02-02
	Carbapenemase producing Enterobacterales isolated from clinical and screening samples	Detection of five common carbapenemase genes by Real time Polymerase Chain Reaction, qualitative (Target regions: bla_{KPC}, bla_{NDM}, bla_{VIM}, bla_{IMP}, and bla_{OXA-48} gene)	Xpert Carba-R Assay Nucleic acid amplification and detection by Cepheid GeneXpert System Method as documented in AM-TM-22-01

Hospital Authority - Alice Ho Miu Ling Nethersole Hospital, Department of Pathology
醫院管理局 - 雅麗氏何妙齡那打素醫院病理部
Haematology Laboratory and Blood Bank: 1/F, Block C, 11 Chuen On Road, Tai Po, New Territories, Hong Kong
香港新界大埔全安路十一號 C 座一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology	**Blood bank – General**		
	EDTA whole blood	ABO and Rh (D) typing by	
		Red cell agglutination	Tile and tube techniques as documented in AB-TM-02-02
		DiaMed Gel technique	Bio-Rad IH1000 system for automated Blood Group system Bio-Rad Gel Blood Group ID card
		Antibody screening by	
		- DiaMed Gel technique	Method as documented in AB-TM-02-03 and Bio-Rad IH1000 system for automated antibody screening Bio-Rad Gel with LISS/Coombs reagent card
		- Conventional method	Method as documented in AB-TM-02-07
		Autologous transfusion	Method as documented in AB-TM-01-07
		Crossmatch by	
		- Electronic crossmatch	Method as documented in AB-TM-02-05
		- Immediate spin	
		- Indirect antiglobulin test	
		Red cell phenotyping by	
		- Direct agglutination	Method as documented in AB-TM-02-16
		- Indirect antiglobulin test	
	Blood bank – Immunohaematology		
	Clotted whole blood	ABO and Rh (D) typing by	
		Red cell agglutination	Tile and tube techniques as documented in AH-TM-06-07
		Cold agglutinin titre by	
		Antibody titration	Method as documented in AH-TM-06-05
		Immune IgG anti-A/B titre by	
		Indirect antiglobulin test	Method as documented in AH-TM-06-04
		Rhesus antibody titre by	
		Indirect antiglobulin test	Method as documented in AH-TM-06-03
		Cold agglutinin syndrome investigation	Method as documented in AB-TM-02-19

Hospital Authority - Alice Ho Miu Ling Nethersole Hospital, Department of Pathology
醫院管理局 - 雅麗氏何妙齡那打素醫院病理部
Haematology Laboratory and Blood Bank: 1/F, Block C, 11 Chuen On Road, Tai Po, New Territories, Hong Kong
香港新界大埔全安路十一號 C 座一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology (cont'd)	**Blood bank – Immunohaematology (cont'd)**		
	EDTA whole blood	Direct antiglobulin test (DAT) by	
		- Conventional method	Tube technique as documented in AH-TM-06-01 and AB-TM-02-04
		- DiaMed Gel technique	DiaMed gel technique and method as documented in AB-TM-02-04
	Coagulation		
	Citrate blood	Coagulation studies including - Prothrombin time (PT) - Activated partial thromboplastin time (APTT) - Thrombin time (TT) - Fibrinogen	ACL TOP 750 Coagulation System
		D-dimer by Turbidimetric immunoassay	ACL TOP 750 Coagulation System Method as documented in AH-TM-02-12
		Lupus anticoagulant detection by - PT, APTT, TT - Dilute Russell's Viper Venom Time - (DRVVT) and Silica clotting time	Method as documented in AH-TM-02-06
	Haematology – General		
	EDTA whole blood	Complete blood count including - Haemoglobin - Haematocrit - Leucocyte count (WBC count) - Mean corpuscular volume (MCV) - Mean corpuscular haemoglobin concentration (MCHC) - Mean corpuscular haemoglobin (MCH) - Platelet count - Red cell count - Red cell distribution width (RDW) - Reticulocyte count - Mean Platelet Volume (MPV)	Bechman Coulter UniCel DxH 800
		Leucocyte differential count by Automated method	Beckman Coulter UniCel DxH 800

Hospital Authority - Alice Ho Miu Ling Nethersole Hospital, Department of Pathology
醫院管理局 - 雅麗氏何妙齡那打素醫院病理部
Haematology Laboratory and Blood Bank: 1/F, Block C, 11 Chuen On Road, Tai Po, New Territories, Hong Kong
香港新界大埔全安路十一號 C 座一樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology (cont'd)	**Haematology – General (cont'd)**		
	EDTA whole blood (cont'd)	Peripheral blood smear examination by Romanowsky stain	Method as documented in AH-TM-01-08, AH-EM-03-02 and AH-EM-03-26
		Reticulocyte count by manual method	Method as documented in AH-TM-01-02
	EDTA marrow blood aspirate, clot, trephine	Bone marrow examination	Smear preparation as documented in AH-TM-01-03 Romanowsky staining and Perls's staining as documented in AH-TM-01-04
	EDTA whole blood	Erythrocyte sedimentation rate (ESR) by photo-optical detection	Cube 30 Touch Method as documented in AH-TM-01-14
		Haemoglobin H inclusion bodies by Supravital staining	Method as documented in AH-TM-03-04
		Haemoglobin pattern by - High performance liquid chromatography - Capillary electrophoresis	 Bio-Rad Variant II Analyzer Sebia Minicap
		Malaria parasite examination by Thick and thin films	Smear preparation and Giemsa staining as documented in AH-TM-07-01
	Haematology - Special		
	EDTA whole blood	Alpha-thalassemia detection by HB Bart's determination	i+Lab Alpha Thal IC Strip
	Clotted and EDTA whole blood	Antibody Adsorption	Method as documented in AB-TM-02-13
		Antibody detection and identification by - Polyethylene glycol - Indirect antiglobulin test - Saline- Indirect antiglobulin test	 Method as documented in AB-TM-02-06 Method as documented in AB-TM-02-08 Conventional and prewarming techniques as documented in AB-TM-02-07
		Autoimmune haemolytic anaemia	Method as documented in AB-TM-02-04, AB-TM-02-06, AB-TM-02-10 to AB-TM-02-13

Hospital Authority - Alice Ho Miu Ling Nethersole Hospital, Department of Pathology
醫院管理局 - 雅麗氏何妙齡那打素醫院病理部
Haematology Laboratory and Blood Bank: 1/F, Block C, 11 Chuen On Road, Tai Po, New Territories, Hong Kong
香港新界大埔全安路十一號 C 座一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology (cont'd)	**Haematology - Special (cont'd)** Clotted and EDTA whole blood (cont'd)	Investigation of haemolytic disease of newborn, including: - ABO and Rh(D) typing - Antibody identification - Red cell antigen phenotyping - IgG anti-A / anti-B titre	Method as documented in AB-TM-02-20 and AB-TM-02-23
		Transfusion reaction, including: - ABO and Rh(D) typing - Direct antiglobulin test - Red cell antigen phenotyping - Antibody identification - Crossmatching	Method as documented in AB-TM-02-21

Hospital Authority - Alice Ho Miu Ling Nethersole Hospital, Department of Pathology
醫院管理局 - 雅麗氏何妙齡那打素醫院病理部
Haematology Laboratory and Blood Bank: 1/F, Block C, 11 Chuen On Road, Tai Po, New Territories, Hong Kong
香港新界大埔全安路十一號 C 座一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Immunology	**Autoantibodies** Serum	Anti-neutrophil cytoplasmic antibody (ANCA) by Indirect immunofluorescence (IIF)	NOVA LiteTM ANCA test systems
		Anti-nuclear antibody (ANA) by Indirect immunofluorescence (IIF)	Aesku Helios Analkyser Method as documented in AH-TM-08-02
		Anti-thyroglobulin antibody (ATG) by Enzme-linked immunosorbent assay (ELISA)	EUROIMMUN Analyser I Euroimmun anti-TG ELISA (IgG) test system
		Anti-thyroperoxidase (TPO) by Enzyme-linked immunosorbent assay (ELISA)	EUROIMMUN Analyser I Euroimmun anti-TPO ELISA (IgG) test system
		Anti-double stranded DNA (Anti-ds DNA) by Enzyme-linked immunosorbent assay (ELISA)	EUROIMMUN Analyser I Euroimmun anti-dsDNA Ncx ELISA (IgG) test system

Hospital Authority - Alice Ho Miu Ling Nethersole Hospital, Department of Pathology
醫院管理局 - 雅麗氏何妙齡那打素醫院病理部
Emergency Laboratory: 1/F, Block C, 11 Chuen On Road, Tai Po, New Territories, Hong Kong
香港新界大埔全安路十一號 C 座一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology	**Blood gas and co-oximetry** Whole blood	Base Excess-vt by Calculation	Siemens blood gases analyser 1200 series
		Bicarbonate by Calculation	Siemens blood gases analyser 1200 series
		Carboxyhaemoglobin by Co-oximetry	Siemens blood gases analyser 1200 series
		Chloride by Potentiometry (Ion-Selective Electrode)	Siemens blood gases analyser 1200 series
		Ionized calcium by Potentiometry (Ion-Selective Electrode)	Siemens blood gases analyser 1200 series
		Methaemoglobin by Co-oximetry	Siemens blood gases analyser 1200 series
		Oxyhaemoglobin by Co-oximetry	Siemens blood gases analyser 1200 series
		O_2 Saturation by Calculation	Siemens blood gases analyser 1200 series
		pCO_2 by Potentiometry (pCO_2-Sensing Electrode)	Siemens blood gases analyser 1200 series
		pH by Potentiometry (Ion-Selective Electrode)	Siemens blood gases analyser 1200 series
		pO_2 by Potentiometry (Oxygen-Sensing Amperometric Electrode)	Siemens blood gases analyser 1200 series

Hospital Authority - Alice Ho Miu Ling Nethersole Hospital, Department of Pathology
醫院管理局 - 雅麗氏何妙齡那打素醫院病理部
Emergency Laboratory: 1/F, Block C, 11 Chuen On Road, Tai Po, New Territories, Hong Kong
香港新界大埔全安路十一號 C 座一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**General chemistry** Plasma	Alanine transaminase (ALT) by Spectrophotometry	Beckman Coulter AU5800 analyser ALT3M Assay
		Albumin by Spectrophotometry	Beckman Coulter AU5800 analyser ALB1N Assay
		Albumin adjusted calcium by Calculation	Beckman Coulter AU5800 analyser (Calculated from albumin and calcium)
		Alkaline Phosphatase (ALP) by Spectrophotometry	Beckman Coulter AU5800 analyser ALP1N Assay
		Amylase by Spectrophotometry	Beckman Coulter AU5800 analyser AMY2N Assay
		Aspartate Amino Transferase (AST) by Spectrophotometry	Beckman Coulter AU5800 analyser AST3N Assay
		Bilirubin, Total by Spectrophotometry	Beckman Coulter AU5800 analyser TBC1N Assay
		Bilirubin, Neonatal by Spectrophotometry	Beckman Coulter AU5800 analyser TBC1N Assay
		Calcium by Spectrophotometry	Beckman Coulter AU5800 analyser CAZ1N Assay
		Chloride by Potentiometry (Indirect Ion-Selective Electrode Method)	Beckman Coulter AU5800 analyser Chloride Assay
		Creatine kinase by Spectrophotometry	Beckman Coulter AU5800 analyser CKN1N Assay
		Creatinine by Spectrophotometry	Beckman Coulter AU5800 analyser CRE3N Assay

Hospital Authority - Alice Ho Miu Ling Nethersole Hospital, Department of Pathology
醫院管理局 - 雅麗氏何妙齡那打素醫院病理部
Emergency Laboratory: 1/F, Block C, 11 Chuen On Road, Tai Po, New Territories, Hong Kong
香港新界大埔全安路十一號 C 座一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**General chemistry (cont'd)**		
	Plasma (cont'd)	Gamma glutamyl transferase (GGT) by Spectrophotometry	Beckman Coulter AU5800 analyser GGT2N Assay
		Globulin by Calculation	Beckman Coulter AU5800 analyser (Calculated from Total Protein and Albumin)
	Plasma, CSF	Glucose by Spectrophotometry	Beckman Coulter AU5800 analyser GLU1N Assay
	Plasma	Glucose, Fasting by Spectrophotometry	Beckman Coulter AU5800 analyser GLU1N Assay
		Iron by Spectrophotometry	Beckman Coulter AU5800 analyser FE-1N Assay
	Plasma, CSF	Lactate Dehydrogenase (LDH) by Spectrophotometry	Beckman Coulter AU5800 analyser LDH3N Assay
	Plasma	Magnesium by Spectrophotometry	Beckman Coulter AU5800 analyser MG-1N Assay
	Serum, urine	Osmolality by Freezing point depression	Arkray OM 6060
	Plasma	Phosphate by Spectrophotometry	Beckman Coulter AU5800 analyser PHO1N Assay
	Plasma, urine	Potassium by Potentiometry (Indirect Ion-Selective Electrode Method)	Beckman Coulter AU5800 analyser Potassium Assay
	Plasma	Protein, Total by Spectrophotometry	Beckman Coulter AU5800 analyser TP-1N Assay

Hospital Authority - Alice Ho Miu Ling Nethersole Hospital, Department of Pathology
醫院管理局 - 雅麗氏何妙齡那打素醫院病理部
Emergency Laboratory: 1/F, Block C, 11 Chuen On Road, Tai Po, New Territories, Hong Kong
香港新界大埔全安路十一號 C 座一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**General chemistry (cont'd)**		
	CSF	Protein, Total by Spectrophotometry	 Beckman Coulter AU5800 analyser UCP1N Assay
	Plasma, urine	Sodium by Potentiometry (Indirect Ion-Selective Electrode Method)	 Beckman Coulter AU5800 analyser Sodium Assay
	Plasma	Troponin I by Immunoassay (Chemiluminescent label)	 Beckman Coulter UniCel DxI 800 Access hsTnI Assay
		Urate by Spectrophotometry	 Beckman Coulter AU5800 analyser UA-1N Assay
		Urea by Spectrophotometry	 Beckman Coulter AU5800 analyser BUN1N Assay
	Proteins, quantitative analysis		
	Plasma	C Reactive protein by Immunoturbidimetry	 Beckman Coulter AU5800 analyser CRP1N Assay
	Special chemistry		
	Plasma	Ammonia by Spectrophotometry	 Beckman Coulter AU5800 Ammonia Assay
	Plasma, CSF	Lactate by Spectrophotometry	 Beckman Coulter AU5800 LAC1N Assay

Hospital Authority - Alice Ho Miu Ling Nethersole Hospital, Department of Pathology
醫院管理局 - 雅麗氏何妙齡那打素醫院病理部
Emergency Laboratory: 1/F, Block C, 11 Chuen On Road, Tai Po, New Territories, Hong Kong
香港新界大埔全安路十一號 C 座一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**Therapeutic drug monitoring**		
	Serum	Digoxin by Spectrophotometry	Beckman Coulter AU5800 analyser DIG1N Assay
		Lithium by Spectrophotometry	Beckman Coulter AU5800 analyser Lithium Assay
	Plasma	Phenytoin by Spectrophotometry	Beckman Coulter AU5800 analyser Phenytoin Assay
		Theophylline by Spectrophotometry	Beckman Coulter AU5800 analyser Theophylline Assay
		Valproic acid by Spectrophotometry	Beckman Coulter AU5800 analyser Valproic Acid Assay
	Toxicology		
	Serum	Acetaminophen (Paracetamol) by Spectrophotometry	Beckman Coulter AU5800 analyser Acetaminophen Assay
		Ethanol by Spectrophotometry	Beckman Coulter AU5800 analyser Ethanol Assay
		Salicylate by Spectrophotometry	Beckman Coulter AU5800 analyser Salicylic acid Assay

Hospital Authority - Alice Ho Miu Ling Nethersole Hospital, Department of Pathology
醫院管理局 - 雅麗氏何妙齡那打素醫院病理部
Emergency Laboratory: 1/F, Block C, 11 Chuen On Road, Tai Po, New Territories, Hong Kong
香港新界大埔全安路十一號 C 座一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology	**Blood bank – General**		
	EDTA whole blood	ABO and Rh (D) typing by	
		Red cell agglutination	Tile and tube techniques as documented in AB-TM-02-02
		DiaMed Gel technique	Bio-Rad IH1000 system for automated Blood Group system Bio-Rad Gel Blood Group ID card
		Antibody screening by	
		- DiaMed Gel technique	Method as documented in AB-TM-02-03 and Bio-Rad IH1000 system for antomated antibody screening Bio-Rad Gel with LISS/Coombs reagent card
		- Conventional method	Method as documented in AB-TM-02-07
		Autologous transfusion	Method as documented in AB-TM-01-07
		Crossmatch by	
		- Electronic crossmatch - Immediate spin - Indirect antiglobulin test	Method as documented in AB-TM-02-05
		Red cell phenotyping by	
		- Direct agglutination - Indirect antiglobulin test	Method as documented in AB-TM-02-16
	Blood bank – Immunohaematology		
	Clotted whole blood	ABO and Rh (D) typing by	
		Red cell agglutination	Tile and tube techniques as documented in AH-TM-06-07
	Coagulation		
	Citrate blood	Coagulation studies including - Prothrombin time (PT) - Activated partial thromboplastin time (APTT)	ACL TOP 750 Coagulation System
		D-dimer by	
		Turbidimetric immunoassay	ACL TOP 750 Coagulation System Method as documented in AH-TM-02-12

Hospital Authority - Alice Ho Miu Ling Nethersole Hospital, Department of Pathology
醫院管理局 - 雅麗氏何妙齡那打素醫院病理部
Emergency Laboratory: 1/F, Block C, 11 Chuen On Road, Tai Po, New Territories, Hong Kong
香港新界大埔全安路十一號 C 座一樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology (cont'd)	**Haematology – General** EDTA whole blood	Complete blood count including - Haemoglobin - Haematocrit - Leucocyte count (WBC count) - Mean corpuscular volume (MCV) - Mean corpuscular haemoglobin concentration (MCHC) - Mean corpuscular haemoglobin (MCH) - Platelet count - Red cell count - Red cell distribution width (RDW) - Mean Platelet Volume (MPV)	Beckman Coulter UniCel DxH 800
		Leucocyte differential count by Automated method	Beckman Coulter UniCel DxH 800
		Malaria parasite examination by Thick and thin films	Smear preparation and Giemsa staining as documented in AH-TM-07-01

Hospital Authority - North District Hospital, Department of Pathology
醫院管理局，北區醫院，病理部

ADDRESS : 2/F, North District Hospital, 9 Po Kin Road, Sheung Shui
地址 香港新界上水保健路九號北區醫院二樓

ENQUIRY : Mr WONG Kwok-wing
查詢 黃國榮先生

TELEPHONE : 2683 8153
電話

FAX : 2683 8176
傳真

E-MAIL : wkw420@ha.org.hk
電郵

CLIENTELE : Public and private hospitals and clinics
服務對象 公營及私營醫院和診所

Hospital Authority - North District Hospital, Department of Pathology
醫院管理局，北區醫院，病理部

ADDRESS
地址
: 2/F, North District Hospital, 9 Po Kin Road, Sheung Shui, N.T. H.K.
香港新界上水保健路九號北區醫院二樓
(i) Chemical Pathology Laboratory
(ii) Haematology Laboratory and Blood Bank
(iii) Emergency Laboratory

LABORATORY DIRECTOR
化驗所主管
: **Pathologist Director 病理學主管:**
Dr Ronald CHAN Cheong-kin
陳昌堅醫生
MBBS, FHKCPath, FHKAM (Pathology)

ACCREDITED TEST CATEGORY
認可測試類別
: **Medical Testing 醫務化驗**

Chemical Pathology	化學病理學
Haematology	血液學
Immunology	免疫學

Hospital Authority - North District Hospital, Department of Pathology
醫院管理局，北區醫院，病理部
Chemical Pathology Laboratory: 2/F, North District Hospital, 9 Po Kin Road, Sheung Shui, N.T., H.K.
香港新界上水保健路九號北區醫院二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology	**Blood gases and co-oximetry** Whole blood	Base Excess-vt by Auto-calculation	Werfen GEM Premier 5000 blood gas analyser
		Bicarbonate by Auto-calculation	Werfen GEM Premier 5000 blood gas analyser
		Carboxyhaemoglobin by Co-oximetry	Werfen GEM Premier 5000 blood gas analyser
		Methaemoglobin by Co-oximetry	Werfen GEM Premier 5000 blood gas analyser
		Oxyhaemoglobin by Co-oximetry	Werfen GEM Premier 5000 blood gas analyser
		Ionized calcium by Potentiometry (Ion Selective Electrode)	Werfen GEM Premier 5000 blood gas analyser
		O_2 Saturation by Auto-calculation	Werfen GEM Premier 5000 blood gas analyser
		pCO_2 by Potentiometry (pCO_2-Sensing Electrode)	Werfen GEM Premier 5000 blood gas analyser
		pH by Potentiometry (Ion Selective Electrode)	Werfen GEM Premier 5000 blood gas analyser
		pO_2 by Potentiometry (Oxygen-Sensing Amperometric Electrode)	Werfen GEM Premier 5000 blood gas analyser

Hospital Authority - North District Hospital, Department of Pathology
醫院管理局，北區醫院，病理部
Chemical Pathology Laboratory: 2/F, North District Hospital, 9 Po Kin Road, Sheung Shui, N.T., H.K.
香港新界上水保健路九號北區醫院二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**General chemistry**		
	Plasma	Alanine transaminase (ALT) by Spectrophotometry	Beckman Coulter AU5800 analyser, ALT3N Assay
		Albumin by Spectrophotometry	Beckman Coulter AU5800 analyser, ALB1N Assay
		Albumin adjusted calcium by Calculation	Beckman Coulter AU5800 analyser – Calculated from ALB1N and CAZ1N Assay
		Alkaline Phosphatase (ALP) by Spectrophotometry	Beckman Coulter AU5800 analyser, ALP1N Assay
	Plasma, whole blood	Anion Gap by Automated method	Beckman Coulter AU5800 ISE Na, K, CL Assay Werfen GEM Premier 5000, Bicarbonate Assay
	Plasma	Ammonia by Spectrophotometry	Beckman Coulter AU5800 analyser, Ammonia Assay
		Amylase by Spectrophotometry	Beckman Coulter AU5800 analyser, AMY2N Assay
		Aspartate Transaminase (AST) by Spectrophotometry	Beckman Coulter AU5800 analyser, AST3N Assay
		Bilirubin, Direct by Spectrophotometry	Beckman Coulter AU5800 analyser, DBC1N Assay
		Bilirubin, Indirect by Calculation	Beckman Coulter AU5800 analyser – Calculated from TBC1N and DBC1N Assay
		Bilirubin, Total by Spectrophotometry	Beckman Coulter AU5800 analyser, TBC1N Assay
		Calcium by Spectrophotometry	Beckman Coulter AU5800 analyser, CAZ1N Assay

Hospital Authority - North District Hospital, Department of Pathology
醫院管理局，北區醫院，病理部
Chemical Pathology Laboratory: 2/F, North District Hospital, 9 Po Kin Road, Sheung Shui, N.T., H.K.
香港新界上水保健路九號北區醫院二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**General chemistry (cont'd)**		
	Plasma, CSF	Chloride by Potentiometry (Ion Selective Electrode)	Beckman Coulter AU5800 analsder, ISE-Chloride Assay
	Plasma	Cholesterol by Spectrophotometry	Beckman Coulter AU5800 analyser, CHO1N Assay
		Cholesterol, high density lipoproteins by Spectrophotometry	Beckman Coulter AU5800 analyser, HDL1N Assay
		Creatine kinase by Spectrophotometry	Beckman Coulter AU5800 analyser, CKN1N Assay
		Creatinine by Spectrophotometry	Beckman Coulter AU5800 analyser, CRE3N Assay
		Cholesterol, low density lipoproteins by Calculation	Beckman Coulter AU5800 analyser – Calculated from Friedewald Formula from cholesterol, triglyceride and HDL-C
	Plasma, urine	Creatinine clearance by Calculation	Beckman Coulter AU5800 analyser – Calculated from plasma and urine Creatinine
	Plasma	Estimated Glomerular Filtration Rate (eGFR) by Calculation	Beckman Coulter AU5800 analyser – Calculated from plasma Creatinine
		Gamma glutamyl transferase (GGT) by Spectrophotometry	Beckman Coulter AU5800 analyser, GGT2N Assay
		Globulin by Calculation	Beckman Coulter AU5800 analyser – Calculated from Protein, Total and Albumin
		Glucose, Fasting by Spectrophotometry	Beckman Coulter AU5800 analyser, GLU1N Assay

Hospital Authority - North District Hospital, Department of Pathology
醫院管理局，北區醫院，病理部
Chemical Pathology Laboratory: 2/F, North District Hospital, 9 Po Kin Road, Sheung Shui, N.T., H.K.
香港新界上水保健路九號北區醫院二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**General chemistry (cont'd)**		
	Plasma, CSF	Glucose, Spot by Spectrophotometry	Beckman Coulter AU5800 analyser, GLU1N Assay
	Plasma	Glucose, OGTT (Dynamic Function Test) by Spectrophotometry	Beckman Coulter AU5800 analyser, GLU1N Assay
		Iron by Spectrophotometry	Beckman Coulter AU5800 Iron analyser, FE-1N Assay
		% Iron Saturation by Calculation	Beckman Coulter AU5800 – Calculated from Iron and TIBC
	Plasma, CSF	Lactate by Spectrophotometry	Beckman Coulter AU5800 analyser, LAC1N Assay
	Plasma~~,~~	Lactate Dehydrogenase (LDH) by Spectrophotometry	Beckman Coulter AU5800 analyser, LDH3N Assay
	Serum, body fluid	Osmolality by Freezing point depression	Arkray Osmo Station OM-6060 Osmometer
	Serum	Osmolality Gap by Calculation	Beckman Coulter AU5800 and Arkray Osmo Station OM-6060 Osmometer – Calculated from serum osmolality, sodium, urea and fluoride plasma glucose
	Body fluid	pH by Potentiometry (Ion Selective Electrode)	Thermo pH meter
	Plasma	Phosphate by Spectrophotometry	Beckman Coulter AU5800 analyser, PHO1N Assay
		Potassium by Potentiometry (Ion Selective Electrode)	Beckman Coulter AU5800 analyser, ISE-K Assay
		Protein, Total by Spectrophotometry	Beckman Coulter AU5800 analyser, TP-1N Assay
	CSF	Protein, Total by Spectrophotometry	Beckman Coulter AU5800 analyser, ULB1G Assay

Hospital Authority - North District Hospital, Department of Pathology
醫院管理局，北區醫院，病理部
Chemical Pathology Laboratory: 2/F, North District Hospital, 9 Po Kin Road, Sheung Shui, N.T., H.K.
香港新界上水保健路九號北區醫院二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**General chemistry (cont'd)**		
	Plasma	Sodium by Potentiometry (Ion Selective Electrode)	Beckman Coulter AU5800 analyser, ISE-Na Assay
		Total Iron Binding Capacity (TIBC) by Calculation	Beckman Coulter AU5800 – Calculated from plasma Iron and UIBC by formula
	Serum	Transtubular Potassium Gradient by Calculation	Beckman Coulter AU5800 and Arkray Osmo Station OM-6060 Osmometer – Calculated from serum osmolality and potassium
	Plasma	Triglycerides by Spectrophotometry	Beckman Coulter AU5800 analyser, TRG1N Assay
		Troponin I, hypersensitive by Immunoassay (Chemiluminescent label)	Beckman Coulter UniCel DxI 800 analyser, Access HSTNI Assay
		Unsaturated Iron Binding Capacity (UIBC) (non-reportable) by Spectrophotometry	Beckman Coulter AU5800 analyser, UBC1N Assay
		Urate by Spectrophotometry	Beckman Coulter AU5800 analyser, UA-1N Assay
		Urea by Spectrophotometry	Beckman Coulter AU5800 analyser, BUN1N Assay
	Pleural fluid	pH by Potentiometry (Ion Selective Electrode)	Abbott i-STAT Alinity portable analyzer

Hospital Authority - North District Hospital, Department of Pathology
醫院管理局，北區醫院，病理部
Chemical Pathology Laboratory: 2/F, North District Hospital, 9 Po Kin Road, Sheung Shui, N.T., H.K.
香港新界上水保健路九號北區醫院二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**General chemistry (cont'd)** Urine	Albumin by Immunoturbidimetry	Beckman Coulter AU5800 analyser, ULB1G Assay
		Albumin:creatinine ratio by Calculation	Beckman Coulter AU5800 analyser - Calculated from urine albumin and creatinine
		Amylase by Spectrophotometry	Beckman Coulter AU5800 analyser, AMY2N Assay
		Calcium by Spectrophotometry	Beckman Coulter AU5800 analyser, CAZ1N Assay
		Chloride by Potentiometry (Ion Selective Electrode)	Beckman Coulter AU5800 analyser, ISE-Chloride Assay
		Creatinine by Spectrophotometry	Beckman Coulter AU5800 analyser, CRE3N Assay
		Osmolality by Freezing point depression	Arkray Osmo Station OM-6060 Osmometer
		pH by Potentiometry (Ion Selective Electrode)	Thermo pH meter
		Phosphate by Spectrophotometry	Beckman Coulter AU5800 analyser, PHO1N Assay
		Potassium by Potentiometry (Ion Selective Electrode)	Beckman Coulter AU5800 analyser, ISE-K Assay

Hospital Authority - North District Hospital, Department of Pathology
醫院管理局，北區醫院，病理部
Chemical Pathology Laboratory: 2/F, North District Hospital, 9 Po Kin Road, Sheung Shui, N.T., H.K.
香港新界上水保健路九號北區醫院二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**General chemistry (cont'd)** Urine (cont'd)	Protein, Total by Spectrophotometry	Beckman Coulter AU5800 analyser, ULB1G Assay
		Protein:Creatinine ratio by Calculation	Beckman Coulter AU5800 analyser - Calculated from spot urine total protein and creatinine
		Renal Tubular Reabsorption of Phosphate by Calculation	Beckman Coulter AU5800 analyser - Calculated from plasma/urine phosphate and creatinine
		Sodium by Potentiometry (Ion Selective Electrode)	Beckman Coulter AU5800 analyser, ISE-Na Assay
		Transtubular Potassium Gradient by Calculation	Beckman Coulter AU5800 and Arkray Osmo Station OM-6060 Osmometer - Calculated from urine osmolality and potassium
		Urate by Spectrophotometry	Beckman Coulter AU5800 analyser, UA-1N Assay
		Urea by Spectrophotometry	Beckman Coulter AU5800 analyser, BUN1N Assay
	Hormones Serum	Cortisol by Immunoassay (Chemiluminescent label)	Beckman Coulter UniCel DxI 800 analyser, Access Cortisol Assay
		Thyroid Stimulating Hormone (TSH) by Immunoassay (Chemiluminescent label)	Beckman Coulter UniCel DxI 800 analyser, Access TSH Assay
		Free Thyroxine (FT4) by Immunoassay (Chemiluminescent label)	Beckman Coulter UniCel DxI 800 analyser, Access FT4 Assay
		Free Triidothyronine (FT3) by Immunoassay (Chemiluminescent label)	Beckman Coulter UniCel DxI 800 analyser, Access FT3 Assay

Hospital Authority - North District Hospital, Department of Pathology
醫院管理局，北區醫院，病理部
Chemical Pathology Laboratory: 2/F, North District Hospital, 9 Po Kin Road, Sheung Shui, N.T., H.K.
香港新界上水保健路九號北區醫院二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**Proteins, qualitative analysis**		
	Serum	Cryoglobulin by Precipitation in cold	Method as documented in NC-TM-03-35
		Ferritin by Immunoassay (Chemiluminescent label)	Beckman Coulter UniCel DxI 800 analyser, Access Ferritin Assay
	Proteins, quantitative analysis		
	Plasma	C-Reactive Protein (CRP) by Immunoturbidimetry	Beckman Coulter AU5800 analyser, CRP1N Assay
	Special chemistry		
	Serum	Folate by Immunoassay (Chemiluminescent label)	Beckman Coulter UniCel DxI 800 analyser, Access Folate Assay
	Stool	Occult blood by Immuno method	Alfresia NS Prime
	Therapeutic Drug Monitoring		
	Serum	Lithium by Spectrophotometry	Beckman Coulter AU5800 analyser, Lithium Assay
		Digoxin by Monoclonal antibody binding	Beckman Coulter AU5800 analyser, DIG1N Assay
	Plasma	Phenytoin by Enzyme Immunoassay	Beckman Coulter AU5800 analyser, Phenytoin Assay
		Theophylline by Enzyme Immunoassay	Beckman Coulter AU5800 analyser, Theophylline Assay
		Valproate by Enzyme Immunoassay	Beckman Coulter AU5800 analyser, Valproate Assay
		Magnesium by Spectrophotometry	Beckman Coulter AU5800 analyser, MG-1N Assay

Hospital Authority - North District Hospital, Department of Pathology
醫院管理局，北區醫院，病理部
Chemical Pathology Laboratory: 2/F, North District Hospital, 9 Po Kin Road, Sheung Shui, N.T., H.K.
香港新界上水保健路九號北區醫院二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**Toxicology** Serum	Acetaminophen (Paracetamol) by Spectrophotometry	Beckman Coulter AU5800 analyser, Acetaminophen Assay
		Ethanol by Spectrophotometry	Beckman Coulter AU5800 analyser, Ethanol Assay
		Salicylate by Spectrophotometry	Beckman Coulter AU5800 analyser, Salicylate Assay
	Tumour Markers Serum	Alpha Fetoprotein (AFP) by Immunoassay (Chemiluminescent label)	Beckman Coulter UniCel DxI 800 analyser, Access AFP Assay
		Carcinoembryonic Antigen (CEA) by Immunoassay (Chemiluminescent label)	Beckman Coulter UniCel DxI 800 analyser, Access CEA Assay
		Prostate Specific Antigen (PSA) by Immunoassay (Chemiluminescent label)	Beckman Coulter UniCel DxI 800 analyser, Access Hybritech PSA Assay
		CA 125 by Immunoassay (Chemiluminescent label)	Beckman Coulter UniCel DxI 800 analyser, Access CA 125 Assay
		CA 15-3 by Immunoassay (Chemiluminescent label)	Beckman Coulter UniCel DxI 800 analyser, Access CA 15-3 Assay
		CA 19-9 by Immunoassay (Chemiluminescent label)	Beckman Coulter UniCel DxI 800 analyser, Access CA 19-9 Assay

Hospital Authority - North District Hospital, Department of Pathology
醫院管理局，北區醫院，病理部
Chemical Pathology Laboratory: 2/F, North District Hospital, 9 Po Kin Road, Sheung Shui, N.T., H.K.
香港新界上水保健路九號北區醫院二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**Urinalysis** Urine	Urinalysis by dipstick method, including - Bilirubin - Haemoglobin - Ketone - Urobilinogen	Siemens Clinitek Status with Multistix 10
		Myoglobin by Filtration and dipstick method	Filtration and Siemens Clinitek Status with Multistix 10

Hospital Authority - North District Hospital, Department of Pathology
醫院管理局，北區醫院，病理部
Haematology Laboratory and Blood Bank: 2/F, North District Hospital, 9 Po Kin Road, Sheung Shui, N.T., H.K.
香港新界上水保健路九號北區醫院二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology	**Blood bank – Antenatal screening**		
	EDTA whole blood	ABO and Rh (D) typing for antenatal samples by Red cell agglutination	 Tile and tube techniques as documented in NH-TM-07-03
	Blood bank – General		
	EDTA whole blood	ABO and Rh (D) typing by Red cell agglutination, automated	 Bio-Rad IH-500 System Method as documented in NB-EM-02-10
		Red cell agglutination, manual	Tile and tube techniques as documented in NB-TM-02-01
		Red cell phenotyping by Direct agglutination Indirect antiglobulin test	 Method as documented in NB-TM-02-07
	Plasma	Antibody screening by Gel-Indirect antiglobulin test Saline-Indirect antiglobulin test Red cell agglutination, automated	 DiaMed gel technique Tube technique as documented in NB-TM-02-20 Bio-Rad IH-500 System Method as documented in NB-EM-02-10
		Crossmatch by Electronic crossmatch Immediate spin Indirect antiglobulin test Red cell agglutination, automated	 Method as documented in NB-TM-02-10 Bio-Rad IH-500 System Method as documented in NB-EM-02-10
	Blood bank – Immunohaematology		
	Serum and EDTA whole blood	Antibody detection and identification by Indirect antiglobulin test	 Method as documented in NB-TM-02-04
	Clotted and EDTA whole blood	Autoimmune haemolytic anaemia by Indirect antiglobulin test	 Method as documented in NB-TM-02-04
	EDTA whole blood	Direct antiglobulin test by Red cell agglutination	 Method as documented in NH-TM-07-05
	Serum	Cold agglutinin titre by Red cell agglutination	 Method as documented in NH-TM-07-02

Hospital Authority - North District Hospital, Department of Pathology
醫院管理局，北區醫院，病理部
Haematology Laboratory and Blood Bank: 2/F, North District Hospital, 9 Po Kin Road, Sheung Shui, N.T., H.K.
香港新界上水保健路九號北區醫院二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology (cont'd)	**Blood bank – Special**		
	Clotted and EDTA whole blood	Transfusion reaction by ABO and Rh(D) typing Red cell antigen phenotyping Antibody identification Crossmatching	Method as documented in NB-TM-02-19
	Coagulation		
	Citrate blood	Coagulation studies by Automated method, including - Prothrombin time (PT) - Activated partial thromboplastin time (APTT)	Automated coagulation system: IL ACL TOP 750 Coagulation System Semi-automated coagulation system: Sysmex CA-104
		D-Dimer by Enzyme linked fluorescent Assay (ELFA)	Mini VIDAS Method as documented in NH-TM-04-09
		Turbidimetric Immunoassay	IL ACL TOP 750 Coagulation System
	Haematology – General		
	EDTA whole blood	Complete blood count by Automated method, including - Haemoglobin - Haematocrit - Leucocyte count (WBC count) - Mean corpuscular volume (MCV) - Mean corpuscular haemoglobin concentration (MCHC) - Mean corpuscular haemoglobin (MCH) - Mean Platelet Volume (MPV) - Platelet count - Red cell count - Red cell distribution width (RDW)	Automated system: Beckman Coulter UniCel DxH 800 cell counter
		Leucocyte differential count by Automated method	Beckman Coulter UniCel DxH 800 cell counter
		Reticulocyte count by Automated method	Beckman Coulter UniCel DxH 800 cell counter
		Manual Reticulocyte count by New methylene blue stain	Method as documented in NH-TM-06-03

Hospital Authority - North District Hospital, Department of Pathology
醫院管理局，北區醫院，病理部
Haematology Laboratory and Blood Bank: 2/F, North District Hospital, 9 Po Kin Road, Sheung Shui, N.T., H.K.
香港新界上水保健路九號北區醫院二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology (cont'd)	**Haematology – General (cont'd)**		
	EDTA whole blood (cont'd)	Peripheral blood smear examination by	
		Romanowsky stained smear	Method as documented in NH-TM-03-01
		Erythrocyte sedimentation rate (ESR) by	
		- Automatic method	VES-MATIC 30
		- Photo-optical detection	DIESSE Cube 30 touch
		Malaria parasite examination by	
		Thick and thin films	Smear preparation and Giemsa staining as documented in NH-TM-05-10
	Haematology – Special		
	EDTA whole blood	Glucose-6-Phosphate Dehydrogenase (G6PD) screening by	
		Fluorescence	Method as documented in NH-TM-05-02
	Serum	Infectious mononucleosis screening by	
		Latex agglutination	Method as documented in NH-TM-05-03
	Microscopy – Miscellaneous		
	Non-CSF body fluid	Cell count by	
		Microscopy	Method as documented in NH-TM-05-01
		Automated method, including - Total nucleated cell - Red blood cell	Sysmex XN-350
Immunology	**Autoantibodies**		
	Serum	Rheumatoid factor by	
		Immunonephelometry	SIEMENS BN ProSpec RF Assay

Hospital Authority - North District Hospital, Department of Pathology
醫院管理局，北區醫院，病理部
Emergency Laboratory: 2/F, North District Hospital, 9 Po Kin Road, Sheung Shui, N.T., H.K.
香港新界上水保健路九號北區醫院二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology	**Blood gases and co-oximetry** Whole blood	Base Excess-vt by Auto-calculation	Werfen GEM Premier 5000 blood gas analyser
		Bicarbonate by Auto-calculation	Werfen GEM Premier 5000 blood gas analyser
		Carboxyhaemoglobin by Co-oximetry	Werfen GEM Premier 5000 blood gas analyser
		Methaemoglobin by Co-oximetry	Werfen GEM Premier 5000 blood gas analyser
		Oxyhaemoglobin by Co-oximetry	Werfen GEM Premier 5000 blood gas analyser
		Ionized calcium by Potentiometry (Ion Selective Electrode)	Werfen GEM Premier 5000 blood gas analyser
		O_2 Saturation by Auto-calculation	Werfen GEM Premier 5000 blood gas analyser
		pCO_2 by Potentiometry (pCO_2-Sensing Electrode)	Werfen GEM Premier 5000 blood gas analyser
		pH by Potentiometry (Ion Selective Electrode)	Werfen GEM Premier 5000 blood gas analyser
		pO_2 by Potentiometry (Oxygen-Sensing Amperometric Electrode)	Werfen GEM Premier 5000 blood gas analyser

Hospital Authority - North District Hospital, Department of Pathology
醫院管理局，北區醫院，病理部
Emergency Laboratory: 2/F, North District Hospital, 9 Po Kin Road, Sheung Shui, N.T., H.K.
香港新界上水保健路九號北區醫院二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**General chemistry**		
	Plasma	Albumin adjusted calcium by Calculation	Beckman Coulter AU5800 – Calculated from albumin and calcium
	Plasma, whole blood	Anion Gap by Automated method	Beckman Coulter AU5800 analyser, ISE Na, K, CL Assay Werfen GEM Premier 5000, Bicarbonate Assay
	Plasma	Ammonia by Spectrophotometry	Beckman Coulter AU5800 analyser, Ammonia Assay
		Amylase by Spectrophotometry	Beckman Coulter AU5800 analyser, AMY2N Assay
		Aspartate Transaminase (AST) by Spectrophotometry	Beckman Coulter AU5800 analyser, AST3N Assay
		Bilirubin, Direct by Spectrophotometry	Beckman Coulter AU5800 analyser, DBC1N Assay
		Bilirubin, Indirect by Spectrophotometry	Beckman Coulter AU5800 analyser – Calculated from total and direct bilirubin
		Calcium by Spectrophotometry	Beckman Coulter AU5800 analyser, CAZ1N Assay
		Creatine kinase by Spectrophotometry	Beckman Coulter AU5800 analyser, CKN1N Assay
	Plasma, CSF	Glucose by Spectrophotometry	Beckman Coulter AU5800 analyser, GLU1N Assay
		Lactate by Spectrophotometry	Beckman Coulter AU5800 analyser, LAC1N Assay
	Plasma	Lactate Dehydrogenase (LDH) by Spectrophotometry	Beckman Coulter AU5800 analyser, LDH3N Assay

Hospital Authority - North District Hospital, Department of Pathology
醫院管理局，北區醫院，病理部
Emergency Laboratory: 2/F, North District Hospital, 9 Po Kin Road, Sheung Shui, N.T., H.K.
香港新界上水保健路九號北區醫院二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**General chemistry (cont'd)**		
	Plasma (cont'd)	Liver Function Test by Spectrophotometry, including - Albumin - ALP - ALT - Globulin (calculated) - Total Bilirubin - Total Protein	Beckman Coulter AU5800 analyser respective assays
	Serum, urine	Osmolality by Freezing point depression	Arkray Osmo Station OM-6060 Osmometer
	Plasma	Phosphate by Spectrophotometry	Beckman Coulter AU5800 analyser, PHO1N Assay
	Urine	Potassium by Potentiometry (Ion Selective Electrode)	Beckman Coulter AU5800 analyser, ISE-K Assay
	CSF	Protein, Total by Spectrophotometry	Beckman Coulter AU5800 analyser, ULB1G Assay
	Plasma	Renal Function Test by Potentiometry and Spectrophotometry, including - Creatinine - Potassium - Sodium - Urea	Beckman Coulter AU5800 respective assays
	Urine	Sodium by Potentiometry (Ion Selective Electrode)	Beckman Coulter AU5800, ISE-Na Assay
	Plasma	Troponin I, hypersensitive, by Immunoassay (Chemiluminescent label)	Beckman Coulter UniCel DxI 800 analyser, Access HSTNI Assay

Hospital Authority - North District Hospital, Department of Pathology
醫院管理局，北區醫院，病理部
Emergency Laboratory: 2/F, North District Hospital, 9 Po Kin Road, Sheung Shui, N.T., H.K.
香港新界上水保健路九號北區醫院二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**Therapeutic Drug Monitoring**		
	Serum	Lithium by Spectrophotometry	Beckman Coulter AU5800 analyser, Lithium Assay
		Digoxin by Monoclonal antibody binding	Beckman Coulter AU5800 analyser, D1G1N Assay
	Plasma	Phenytoin by Enzyme Immunoassay	Beckman Coulter AU5800 analyser, Phenytoin Assay
		Theophylline by Enzyme Immunoassay	Beckman Coulter AU5800 analyser, Theophylline Assay
		Valproate by Enzyme Immunoassay	Beckman Coulter AU5800 analyser, Valproate Assay
		Magnesium by Spectrophotometry	Beckman Coulter AU5800 analyser, MG-1N Assay
	Toxicology		
	Serum	Acetaminophen (Paracetamol) by Spectrophotometry	Beckman Coulter AU5800 analyser, Paracetamol Assay
		Ethanol by Spectrophotometry	Beckman Coulter AU5800 analyser, Ethanol Assay
		Salicylate by Spectrophotometry	Beckman Coulter AU5800 analyser, Salicylate Assay
Examination performed after consulting duty pathologist			
Chemical Pathology	**General chemistry**		
	Plasma	Iron by Spectrophotometry	Beckman Coulter AU5800 analyser, FE-1N Assay

Hospital Authority - North District Hospital, Department of Pathology
醫院管理局，北區醫院，病理部
Emergency Laboratory: 2/F, North District Hospital, 9 Po Kin Road, Sheung Shui, N.T., H.K.
香港新界上水保健路九號北區醫院二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology	**Blood bank – General**		
	EDTA whole blood	ABO and Rh (D) typing by	
		Red cell agglutination, automated	Bio-Rad IH-500 System Method as documented in NB-EM-02-10
		Red cell agglutination, manual	Tile and tube techniques as documented in NB-TM-02-01
		Red cell phenotyping by	
		Direct agglutination	Method as documented in NB-TM-02-07
		Indirect antiglobulin test	
	Plasma	Antibody screening by	
		Gel-Indirect antiglobulin test	DiaMed gel technique
		Saline-Indirect antiglobulin test	Tube technique as documented in NB-TM-02-20
		Red cell agglutination, automated	Bio-Rad IH-500 System Method as documented in NB-EM-02-10
		Crossmatch by	
		Electronic crossmatch	Method as documented in NB-TM-02-10
		Immediate spin	
		Indirect antiglobulin test	
		Red cell agglutination, automated	Bio-Rad IH-500 System Method as documented in NB-EM-02-10

Hospital Authority - North District Hospital, Department of Pathology

醫院管理局，北區醫院，病理部

Emergency Laboratory: 2/F, North District Hospital, 9 Po Kin Road, Sheung Shui, N.T., H.K.
香港新界上水保健路九號北區醫院二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology	**Coagulation**		
	Citrate blood	Coagulation studies by	
		Automated method, including	Automated coagulation system:
		- Prothrombin time (PT)	IL ACL TOP 750 Coagulation System
		- Activated partial thromboplastin time (APTT)	Semi-automated coagulation system: Sysmex CA-104
		D-dimer by	
		Turbidimetric Immunoassay	IL ACL TOP 750 Coagulation System
	Haematology – General		
	EDTA whole blood	Complete blood count by	
		Automated method, including	Automated system:
		- Haemoglobin	Beckman Coulter UniCel DxH 800 cell counter
		- Haematocrit	
		- Leucocyte count (WBC count)	
		- Mean corpuscular volume (MCV)	
		- Mean corpuscular haemoglobin concentration (MCHC)	
		- Mean corpuscular haemoglobin (MCH)	
		- Mean Platelet Volume (MPV)	
		- Platelet count	
		- Red cell count	
		- Red cell distribution width (RDW)	
		Leucocyte differential count by	
		Automated method	Beckman Coulter UniCel DxH 800 cell counter
		Malaria parasite examination by	
		Thick and thin films	Smear preparation and Giemsa staining as documented in NH-TM-05-10
		Erythrocyte sedimentation rate (ESR) by	
		Photo-optical detection	DIESSE Cube 30 touch
	Microscopy – Miscellaneous		
	Non-CSF body fluid	Cell count by	
		Automated method, including	Sysmex XN-350
		- Total nucleated cell	
		- Red blood cell	

St. Teresa's Hospital – Histopathology Laboratory
聖德肋撒醫院 – 組織病理化驗室

ADDRESS : 5/F, East Wing, St. Teresa's Hospital, 327 Prince Edward Road, Kowloon, Hong Kong
地址 香港九龍太子道三二七號聖德肋撒醫院東翼五字樓

ENQUIRY : Miss LEE Mei-yan
查詢 李美茵小姐

TELEPHONE : 2711 2120
電話

FAX : 2761 1798
傳真

E-MAIL : leemy3@sth.org.hk
電郵

WEBSITE ADDRESS : https://www.sth.org.hk
網址

CLIENTELE : Private hospitals and clinics
服務對象 私營醫院和診所

St. Teresa's Hospital – Histopathology Laboratory
聖德肋撒醫院 – 組織病理化驗室

ADDRESS **地址**	:	5/F, East Wing, St. Teresa's Hospital, 327 Prince Edward Road, Kowloon, Hong Kong 香港九龍太子道三二七號聖德肋撒醫院東翼五字樓
LABORATORY DIRECTOR **化驗所主管**	:	**Pathologist Director 病理學主管:** Dr KAN Chi-hang 簡志恒醫生 MBChB (HK), FRCPA, FHKAM (Path), FHKCPath
PATHOLOGIST IN CHARGE OF THE ACCREDITED DISCIPLINE **負責認可範疇的病理學專科醫生**	:	Anatomical Pathology 解剖病理學 Dr KAN Chi-hang 簡志恒醫生 (Full-time 全職) Medical Genetics (Molecular Genetics) 醫學遺傳學 (分子遺傳學) Dr KAN Chi-hang 簡志恒醫生 (Full-time 全職)
ACCREDITED TEST CATEGORY **認可測試類別**	:	**Medical Testing 醫務化驗** Anatomical Pathology 解剖病理學 Medical Genetics (Molecular Genetics) 醫學遺傳學 (分子遺傳學)

St. Teresa's Hospital – Histopathology Laboratory
聖德肋撒醫院 – 組織病理化驗室

5/F, East Wing, St. Teresa's Hospital, 327 Prince Edward Road, Kowloon, Hong Kong
香港九龍太子道三二七號聖德肋撒醫院東翼五字樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology	**Cytopathology**		
	Gynaecological specimens	Gynaecological cytology examination by Papanicolaou staining	Specimen preparation and staining (manual method): Method as documented in HISL-GUI-COP-001-Ch 3 Conventional smear + Papanicolaou staining ThinPrep + Papanicolaou staining
	Non-gynaecological specimens	Non-gynaecological cytology examination by H&E, Papanicolaou staining	Specimen preparation and routine staining (manual method): Method as documented in HISL-GUI-COP -001-Ch 3 and HISL-GUI-HOP-002-Ch2 Haematoxylin and Eosin stain Papanicolaou stain
	Fine needle aspirates	FNA cytology examination by Papanicolaou staining	Specimen preparation and routine staining (manual method): Method as documented in HISL-GUI-COP-001-Ch4 Papanicolaou stain
	Histopathology		
	Surgical pathology	Histology examination by H&E and special staining	Specimen preparation and routine staining (automation by Leica ST5020): Method as documented in HISL-GUI-HOP-001-Ch (2,3,4), HISL-GUI-HOP-002-Ch2 Haematoxylin and Eosin Special Staining (manual method): Method as documented in HISL-GUI-HOP-002 -Ch3 Acid-fast bacilli by Ziehl-Neelsen Acidic and neutral mucins by Alcian blue (pH 1.0 – 2.5), Combined Alcian Blue-PAS, or Southgate Mucicarmine Amyloid by Highman's Congo Red Bacteria by Gram Stain (Hucker & Conn) Basement membrane by Gomori's Periodic Acid Silver Methenamine (PASM) Calcium deposit by von Kossa Collagen and muscle fibers by Van Gieson's Picro-Fuchsin Connective tissue fibers by Masson's Trichrome Elastic fibres by Verhoeff's Haematoxylin, EVG

St. Teresa's Hospital – Histopathology Laboratory
聖德肋撒醫院 – 組織病理化驗室

5/F, East Wing, St. Teresa's Hospital, 327 Prince Edward Road, Kowloon, Hong Kong
香港九龍太子道三二七號聖德肋撒醫院東翼五字樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology (cont'd)	**Histopathology (cont'd)** Surgical pathology (cont'd)	Histology examination by H&E and special staining (cont'd)	Special Staining (manual method): Method as documented in HISL-GUI-HOP-002-Ch3 Fungi by Grocott's Methenamine Silver Glycol groups by Periodic Acid-Schiff (PAS) Haemosiderin by Perls' Prussian Blue Helicobacter pylori by Price's Giemsa Mast cells and neutrophilic granulocytes by Cholroacetate Esterase Melanin pigment by Schmorl ± Bleaching Reticulin by Gordon & Sweet's Silver Spirochaetes by Warthin-Starry silver
	Intra-operative frozen section for fresh tissue specimens and biopsies	Histology examination by H&E and Methylene Blue staining	Specimen preparation and routine staining (manual method): Method as documented in HISL-GUI-HOP-001-Ch 5 Haematoxylin and Eosin Methylene Blue
	Immunohistochemistry Renal and Skin Biopsies	Immunofluorescence examination by automated method	Specimen preparation and staining (Lecia Bond - III): Method as documented in HISL-GUI-HOP-003-Ch 3 IgA / IgM / IgG / Complement 3 / Fibrinogen/ Kappa / Lamda by Direct Immunofluorescence Method

St. Teresa's Hospital – Histopathology Laboratory
聖德肋撒醫院 – 組織病理化驗室

5/F, East Wing, St. Teresa's Hospital, 327 Prince Edward Road, Kowloon, Hong Kong
香港九龍太子道三二七號聖德肋撒醫院東翼五字樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology (cont'd)	**Immunohistochemistry (cont'd)** Surgical pathology	Immunohistochemical examination by automated method	Specimen preparation and staining (Lecia Bond - III): Method as documented in HISL-GUI-HOP-003-Ch 3 Detection system: DAB chromogen Antigen retrieval: On-broad inside the automated immunostainer (Methods include enzyme digestion and heat-induced retrieval)

St. Teresa's Hospital – Histopathology Laboratory
聖德肋撒醫院 – 組織病理化驗室

5/F, East Wing, St. Teresa's Hospital, 327 Prince Edward Road, Kowloon, Hong Kong
香港九龍太子道三二七號聖德肋撒醫院東翼五字樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics	**Molecular Genetics (anatomical pathology)** Histological specimen	Epstein-Barr Virus-Encoded Small RNA (EBER) Detection by Chromogenic in-situ hybridisation (CISH)	Method as documented in HISL-GUI-HOP-003-Chp3 ISH assay by Lecia Bond - III
		Amplification of erb-b2 receptor tyrosine kinase 2 (ERBB2, HER2) by Chromogenic in-situ hybridisation (CISH)	Dual ISH assay by Roche Benchmark ULTRA

Department of Health - Centre for Health Protection, Public Health Laboratory Services Branch, Chemical Pathology and Haematology Division
衞生署 - 衞生防護中心，公共衞生化驗服務處，化學病理及血液科

ADDRESS **地址**	:	3/F, Public Health Laboratory Centre, 382 Nam Cheong Street, Kowloon, Hong Kong 香港九龍石硤尾，南昌街 382 號，公共衞生檢測中心 3 樓
ENQUIRY **查詢**	:	Mr SHIU Kar-chi 蕭嘉志先生
TELEPHONE **電話**	:	2319 8451
FAX **傳真**	:	2699 4221
E-MAIL **電郵**	:	so_cp@dh.gov.hk
WEBSITE ADDRESS **網址**	:	N.A.
CLIENTELE **服務對象**	:	Public and private hospitals and clinics 公營及私營醫院和診所

Department of Health - Centre for Health Protection, Public Health Laboratory Services Branch, Chemical Pathology and Haematology Division
衛生署 - 衛生防護中心，公共衛生化驗服務處，化學病理及血液科

ADDRESS **地址**	:	3/F, Public Health Laboratory Centre, 382 Nam Cheong Street, Kowloon, Hong Kong 香港九龍石硤尾，南昌街 382 號，公共衛生檢測中心 3 樓
LABORATORY DIRECTOR **化驗所主管**	:	**Pathologist Director 病理學主管:** Dr Janice LO Yee-chi 羅懿之醫生 MBBS(HK), FRCPA, FHKCPath, FHKAM (Pathology)
PATHOLOGIST IN CHARGE OF THE ACCREDITED DISCIPLINE **負責認可範疇的病理學專科醫生**	:	Nil
ACCREDITED TEST CATEGORY **認可測試類別**	:	**Medical Testing 醫務化驗** Chemical Pathology 化學病理學 Haematology 血液學 Immunology 免疫學

Department of Health - Centre for Health Protection, Public Health Laboratory Services Branch, Chemical Pathology and Haematology Division
衛生署 - 衛生防護中心，公共衛生化驗服務處，化學病理及血液科
3/F, Public Health Laboratory Centre, 382 Nam Cheong Street, Kowloon, Hong Kong
香港九龍石硤尾，南昌街 382 號，公共衛生檢測中心 3 樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations listed in the scope below.			
Chemical Pathology	**General Chemistry**		
	Fluoride plasma	Glucose by Spectrophotometry	Roche c8000 Modular Analyser Series Glucose assay
		Glucose, fasting by Spectrophotometry	Roche c8000 Modular Analyser Series Glucose assay
	Serum	Alanine Aminotransferase (ALT) by Spectrophotometry	Roche c8000 Modular Analyser Series Alanine Aminotransferase (ALT) assay
		Albumin by Spectrophotometry	Roche c8000 Modular Analyser Series Albumin BCP assay
		Alkaline Phosphatase (ALP) by Spectrophotometry	Roche c8000 Modular Analyser Series Alkaline Phosphatase (ALP) assay
		Alkaline Phosphatase, heat stable isoenzyme by Spectrophotometry	Roche c8000 Modular Analyser Series Alkaline Phosphatase (ALP) assay and heat inactivation method as documented in CPL-MTH-C8K-API
		Amylase by Spectrophotometry	Roche c8000 Modular Analyser Series Amylase assay
		Aspartate Aminotransferase (AST) by Spectrophotometry	Roche c8000 Modular Analyser Series Aspartate Aminotransferase (AST) assay
		Bilirubin, Direct by Spectrophotometry	Roche c8000 Modular Analyser Series Direct Bilirubin assay
		Bilirubin, Total by Spectrophotometry	Roche c8000 Modular Analyser Series Total Bilirubin assay

Department of Health - Centre for Health Protection, Public Health Laboratory Services Branch, Chemical Pathology and Haematology Division
衛生署 - 衛生防護中心，公共衛生化驗服務處，化學病理及血液科
3/F, Public Health Laboratory Centre, 382 Nam Cheong Street, Kowloon, Hong Kong
香港九龍石硤尾，南昌街 382 號，公共衛生檢測中心 3 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed in the scope below.			
Chemical Pathology (cont'd)	**General Chemistry (cont'd)** Serum (cont'd)	Calcium by Spectrophotometry	Roche c8000 Modular Analyser Series Calcium assay
		Carbon dioxide by Spectrophotometry	Roche c8000 Modular Analyser Series Bicarbonate assay
		Chloride by Potentiometry (Ion Selective Electrode)	Roche c8000 Modular Analyser Series
		Cholesterol by Spectrophotometry	Roche c8000 Modular Analyser Series Cholesterol assay
		Cholesterol, high density lipoproteins by Spectrophotometry	Roche c8000 Modular Analyser Series HDL cholesterol assay
		Cholesterol, low density lipoproteins by Calculation	Roche c8000 Modular Analyser Series (calculated test using Friedewald Formula)
		Creatine Kinase by Spectrophotometry	Roche c8000 Modular Analyser Series Creatine Kinase assay
		Creatinine by Spectrophotometry	Roche c8000 Modular Analyser Series Creatinine assay
		Fructosamine by Spectrophotometry	Roche c8000 Modular Analyser Series Fructosamine assay
		Gamma-glutamyl transferase by Spectrophotometry	Roche c8000 Modular Analyser Series Gamma-Glutamyl Transferase assay
		Iron by Spectrophotometry	Roche c8000 Modular Analyser Series Iron assay

Department of Health - Centre for Health Protection, Public Health Laboratory Services Branch, Chemical Pathology and Haematology Division
衛生署 - 衛生防護中心，公共衛生化驗服務處，化學病理及血液科
3/F, Public Health Laboratory Centre, 382 Nam Cheong Street, Kowloon, Hong Kong
香港九龍石硤尾，南昌街 382 號，公共衛生檢測中心 3 樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations listed in the scope below.			
Chemical Pathology (cont'd)	**General Chemistry (cont'd)** Serum (cont'd)	Iron Saturation by Calculation	Roche c8000 Modular Analyser Series (Calculated test using Iron and TIBC)
		Lactate Dehydrogenase by Spectrophotometry	Roche c8000 Modular Analyser Series Lactate Dehydrogenase (LD) assay
		Magnesium by Spectrophotometry	Roche c8000 Modular Analyser Series Magnesium assay
		Osmolality by Freezing point depression	OSMO STATION OM-6060 analyser
		Phosphate by Spectrophotometry	Roche c8000 Modular Analyser Series Phosphate assay
		Potassium by Potentiometry (Ion Selective Electrode)	Roche c8000 Modular Analyser Series
		Protein, Total by Spectrophotometry	Roche c8000 Modular Analyser Series Total Protein assay
		Sodium by Potentiometry (Ion Selective Electrode)	Roche c8000 Modular Analyser Series
		Triglyceride by Spectrophotometry	Roche c8000 Modular Analyser Series Triglyceride assay
		Urea by Spectrophotometry	Roche c8000 Modular Analyser Series Urea Nitrogen assay
		Uric acid by Spectrophotometry	Roche c8000 Modular Analyser Series Uric Acid assay

Department of Health - Centre for Health Protection, Public Health Laboratory Services Branch, Chemical Pathology and Haematology Division
衛生署 - 衛生防護中心，公共衛生化驗服務處，化學病理及血液科
3/F, Public Health Laboratory Centre, 382 Nam Cheong Street, Kowloon, Hong Kong
香港九龍石硤尾，南昌街 382 號，公共衛生檢測中心 3 樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations listed in the scope below.			
Chemical Pathology (cont'd)	**General Chemistry (cont'd)**		
	Serum (cont'd)	TIBC by	
		Calculation	Roche c8000 Modular Analyser Series (Calculated from Iron and UIBC)
		UIBC by	
		Spectrophotometry	Roche c8000 Modular Analyser Series UIBC assay
	Urine	Albumin by	
		Immunoturbidimetry	Beckman Coulter AU480 Microalbumin assay
		Creatinine by	
		Spectrophotometry	Beckman Coulter AU480 Creatinine assay
		Creatinine Clearance by	
		Calculation	Roche c8000 Modular Analyser Series and Beckman Coulter AU480 (Calculated from Serum and Urine Creatinine)
		Osmolality by	
		Freezing point depression	OSMO STATION OM-6060 analyser
		Potassium by	
		Potentiometry (Ion Selective Electrode)	Roche c8000 Modular Analyser Series
		Protein, Total by	
		Turbidimetry	Roche c8000 Modular Analyser Series Total Protein, Urine/CSF assay
		Sodium by	
		Potentiometry (Ion Selective Electrode)	Roche c8000 Modular Analyser Series
	Stool	Occult blood by	
		Faecal immunochemical test (FIT)	Alfresa FIT on NS-Prime Discrete Clinical Chemistry Analyser

Department of Health - Centre for Health Protection, Public Health Laboratory Services Branch, Chemical Pathology and Haematology Division
衛生署 - 衛生防護中心，公共衛生化驗服務處，化學病理及血液科
3/F, Public Health Laboratory Centre, 382 Nam Cheong Street, Kowloon, Hong Kong
香港九龍石硤尾，南昌街 382 號，公共衛生檢測中心 3 樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations listed in the scope below.			
Chemical Pathology (cont'd)	**Hormones**		
	Serum	Cortisol by Immunoassay (Chemiluminescent label)	Abbott Alinity i Cortisol assay
		Free T3 by Immunoassay (Chemiluminescent label)	Abbott Alinity i Free T3 assay
		Free T4 by Immunoassay (Chemiluminescent label)	Abbott Alinity i Free T4 assay
		Thyroid Stimulating Hormone (TSH) by Immunoassay (Chemiluminescent label)	Abbott Alinity i TSH assay
	Proteins, quantitative analysis		
	Serum	C-Reactive Protein by Turbidimetry	Cobas Integra 400 Plus C-Reactive Protein assay
		Ferritin by Immunoassay (Chemiluminescent label)	Abbott Alinity i Ferritin assay
	Special Chemistry		
	Serum	Pseudocholinesterase by Spectrophotometry	Roche c8000 Modular Analyser Series Cholinesterase assay
		Active B12 by Immunoassay (Chemiluminescent label)	Abbott Alinity i Active B12 assay
		Folate by Immunoassay (Chemiluminescent label)	Abbott Alinity i Folate assay
	Urine, Body fluid	Chyle by Microscopy	Method as documented in CPL-MTH-CHY

Department of Health - Centre for Health Protection, Public Health Laboratory Services Branch, Chemical Pathology and Haematology Division
衛生署 - 衛生防護中心，公共衛生化驗服務處，化學病理及血液科
3/F, Public Health Laboratory Centre, 382 Nam Cheong Street, Kowloon, Hong Kong
香港九龍石硤尾，南昌街 382 號，公共衛生檢測中心 3 樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations listed in the scope below.			
Chemical Pathology (cont'd)	**Therapeutic Drug Monitoring**		
	Serum	Carbamazepine by Fluorescence Polarization Immunoassay (FPIA)	Cobas Integra 400 Plus Carbamazepine assay
		Lithium by Spectrophotometry	Roche c8000 Modular Analyser Series Lithium assay
		Phenytoin by Fluorescence Polarization Immunoassay (FPIA)	Cobas Integra 400 Plus Phenytoin assay
		Valproic acid by Fluorescence Polarization Immunoassay (FPIA)	Cobas Integra 400 Plus Valproic acid assay
	Tumour Markers		
	Serum	Alpha-feto protein (AFP) by Immunoassay (Chemiluminescent label)	Abbott Alinity i AFP assay
		Carcinoembryonic Antigen (CEA) by Immunoassay (Chemiluminescent label)	Abbott Alinity i CEA assay
		Prostate Specific Antigen (PSA) by Immunoassay (Chemiluminescent label)	Abbott Alinity i Total PSA assay

Department of Health - Centre for Health Protection, Public Health Laboratory Services Branch, Chemical Pathology and Haematology Division
衞生署 - 衞生防護中心，公共衞生化驗服務處，化學病理及血液科
3/F, Public Health Laboratory Centre, 382 Nam Cheong Street, Kowloon, Hong Kong
香港九龍石硤尾，南昌街 382 號，公共衞生檢測中心 3 樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations listed in the scope below.			
Haematology	**Coagulation**		
	Plasma or Citrate blood	Coagulation studies including	
		- Prothrombin time (PT)	Sysmex CA-1500
		- Activated partial thromboplastin time (APTT)	
	Haematology – General		
	EDTA whole blood	Complete blood count including	
		- Haemoglobin	Sysmex XN9100
		- Red blood cell	
		- Haematocrit	
		- Mean cell volume	
		- Mean cell haemoglobin	
		- Mean cell haemoglobin concentration	
		- Red cell distribution width	
		- Platelet	
		- Mean platelet volume	
		- White blood cell	
		- 5 part differential	
		Peripheral blood smear examination by May-Grünwald & Giemsa stain	Sysmex SP50
		Reticulocyte Count, automated	Sysmex XN9100
		Erythrocyte Sedimentation Rate (ESR) by photo-optical detection	Diesse Cube 30 Touch System
	Haematology – Immunohaematology		
	EDTA whole blood	ABO Blood grouping and Rh (D) typing by Red cell agglutination	Method as documented in CPL-MTH-BGP-ABO and CPL-MTH-BGP-RHD

Department of Health - Centre for Health Protection, Public Health Laboratory Services Branch, Chemical Pathology and Haematology Division
衛生署 - 衛生防護中心，公共衛生化驗服務處，化學病理及血液科
3/F, Public Health Laboratory Centre, 382 Nam Cheong Street, Kowloon, Hong Kong
香港九龍石硤尾，南昌街 382 號，公共衛生檢測中心 3 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed in the scope below.			
Haematology	**Haematology – Special** EDTA whole blood	Haemoglobin A1c (HbA1c) by High performance liquid chromatography	Bio-rad D-100 Hemoglobin Testing System
		Gluocose-6-phosphate dehydrogenase (G6PD) by Spectrophotometry	Randox Gluocose-6-phosphate Dehydrogenase assay on Beckman Coulter AU480

Department of Health - Centre for Health Protection, Public Health Laboratory Services Branch, Chemical Pathology and Haematology Division
衛生署 - 衛生防護中心，公共衛生化驗服務處，化學病理及血液科
3/F, Public Health Laboratory Centre, 382 Nam Cheong Street, Kowloon, Hong Kong
香港九龍石硤尾，南昌街 382 號，公共衛生檢測中心 3 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed in the scope below.			
Immunology	**Autoantibodies**		
	Serum	Anti-nuclear Antibody by Indirect immunofluorescent method	Bio-rad PhD 1x System Kallestad HEp-2 Cell line Substrate Kit Method as documented in CPL-MTH-ANA
		Anti-Thyroglobulin Antibody by Immunoassay (Chemiluminescent label)	Abbott Alinity i Anti-Tg assay
		Anti-Thyroid Peroxidase Antibody by Immunoassay (Chemiluminescent label)	Abbott Alinity i Anti-TPO assay
		Rheumatoid Factor by Turbidimetry	Cobas Integra 400 Plus Rheumatoid Factor assay
		Anti-dsDNA by Immunoassay (Enzyme-based label)	Bio-rad PhD 1x System Euroimmun Anti-dsDNA-NcX ELISA (IgG) kit
	Immunochemistry		
	Serum	Complement C3 by Turbidimetry	Roche c8000 Modular Analyser Series Complement C3 assay
		Complement C4 by Turbidimetry	Roche c8000 Modular Analyser Series Complement C4 assay
		Immunoglobulin A by Turbidimetry	Roche c8000 Modular Analyser Series Immunoglobulin A assay
		Immunoglobulin G by Turbidimetry	Roche c8000 Modular Analyser Series Immunoglobulin G assay
		Immunoglobulin M by Turbidimetry	Roche c8000 Modular Analyser Series Immunoglobulin M assay

Hospital Authority - Tseung Kwan O Hospital, Department of Pathology

醫院管理局-將軍澳醫院病理部

ADDRESS : Main Building, Tseung Kwan O Hospital, 2 Po Ning Lane, Hang Hau, Tseung Kwan O, Kowloon, Hong Kong
地址 香港九龍將軍澳坑口寶寧里二號將軍澳醫院主座大樓

ENQUIRY : Mr YIU Lap-san
查詢 姚立新先生

TELEPHONE : 2208 0896
電話

FAX : 2174 9519
傳真

E-MAIL : yls531@ha.org.hk
電郵

CLIENTELE : Public and private hospitals and clinics
服務對象 公營及私營醫院和診所

Hospital Authority - Tseung Kwan O Hospital, Department of Pathology
醫院管理局–將軍澳醫院病理部

ADDRESS
地址

Main facility:

Main Building, Tseung Kwan O Hospital, 2 Po Ning Lane, Hang Hau, Tseung Kwan O, Kowloon, Hong Kong
香港九龍將軍澳坑口寶寧里二號將軍澳醫院主座大樓
(i) Anatomical Pathology Laboratory, 3/F
(ii) Autopsy Service, LG
(iii) Core Laboratory - Chemical Pathology and Haematology, 3/F
(iv) Clinical Microbiology and Infection Laboratory, 3/F
(v) Blood Bank, 3/F

Branch facility:

2/F, Haven of Hope Hospital, 8 Haven of Hope Road, Tseung Kwan O, Kowloon, Hong Kong
香港九龍將軍澳靈實路八號靈實醫院二樓
(i) TB Laboratory
(ii) Blood Bank (only issue of blood products)

LABORATORY DIRECTOR
化驗所主管

: **Pathologist Director 病理學主管:**
Dr Rocky SHUM
岑樂基醫生
MBBS(HK), FHKCPath, FHKAM(Path)

PATHOLOGIST IN CHARGE OF THE ACCREDITED DISCIPLINE
負責認可範疇的病理學專科醫生

: Anatomical Pathology 解剖病理學

Dr PONG Wai Mei	龐維湄醫生	(Full-time	全職)

Clinical Microbiology and Infection 臨床微生物學及傳染病

Dr Rocky SHUM	岑樂基醫生	(Full-time	全職)

Haematology 血液學

Dr LIANG Yu-shan	梁玉珊醫生	(Full-time	全職)

ACCREDITED TEST CATEGORY
認可測試類別

: **Medical Testing 醫務化驗**

Anatomical Pathology	解剖病理學
Chemical Pathology	化學病理學
Clinical Microbiology and Infection	臨床微生物學及傳染病
Haematology	血液學
Immunology	免疫學
Medical Genetics (Molecular Genetics)	醫學遺傳學（分子遺傳學）

Hospital Authority - Tseung Kwan O Hospital, Department of Pathology
醫院管理局-將軍澳醫院病理部

Autopsy Service: LG, Main Building, Tseung Kwan O Hospital, 2 Po Ning Lane, Hang Hau, Tseung Kwan O, Kln., H.K.
香港九龍將軍澳坑口寶寧里二號將軍澳醫院主座大樓低層地下

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing examinations and for providing clinical interpretation of examinations listed below.			
Anatomical Pathology	**Autopsy** Adult	Autopsy examination by H&E and special staining	Autopsy method and specimen preparation: Method as documented in MOR-SOP-收取_發放及瞻仰遺體指引, MOR-SOP-解剖個案處理程序 Routine and special staining as in Histopathology: Haematoxylin and Eosin staining: HISTO-SOP-HE Special and immunohistochemical staining: HISTO-SOP-SStain; HISTO-SOP-IMH

Hospital Authority - Tseung Kwan O Hospital, Department of Pathology
醫院管理局 - 將軍澳醫院病理部

Anatomical Pathology Laboratory: 3/F, Main Building, Tseung Kwan O Hospital, 2 Po Ning Lane, Hang Hau, Tseung Kwan O, Kln., H.K.
香港九龍將軍澳坑口寶寧里二號將軍澳醫院主座大樓三樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing examinations and for providing clinical interpretation of examinations listed below.			
Anatomical Pathology	**Cytopathology** Gynaecological specimens	Gynaecological cytology examination by Papanicolaou staining	Specimens preparation and routine staining (both automation and manual), for: ThinPrep + Papanicolaou staining Method as documented in CYTO-SOP-C00001, CYTO-SOP-C00004, CYTO-SOP-C00005, CYTO-SOP-C00006 Manual screening: Method as documented in CYTO-SOP-C00003
	Non-gynaecological specimens	Non-gynaecological cytology examination by Papanicolaou and special staining	Specimen preparation and routine staining of Papanicolaou stain EA50 (both automation and manual method): Method as documented in CYTO-SOP-C00001, CYTO-SOP-C00004, CYTO-SOP-C00005 Special staining (manual method): Method as documented in CYTO-SOP-C00004 and HISTO-SOP-Sstain: Eosinophil by 'modified' Haematoxylin and Eosin Hemosiderin by Perls Prussian Blue Crystals by wet mount Method for infectious agents as documented in HISTO-SOP-Sstain: Acid-fast-bacilli by Ziehl-Neelsen Fungi by Grocott's Methenamine Silver Pneumocystis carinii by Grocott's Methenamine Silver Manual screening: Method as documented in CYTO-SOP-C00003
	Fine needles aspirates	Fine Needle Aspiration cytology examination by H&E, Papanicolaou and Diff Quik staining	Specimen preparation and routine staining (both automation and manual method): Method as documented in CYTO-SOP-C00001, CYTO-SOP-C00002, CYTO-SOP-C00004, CYTO-SOP-C00005: Haematoxylin and Eosin stain Papanicolaou stain Diff Quik stain

Hospital Authority - Tseung Kwan O Hospital, Department of Pathology
醫院管理局 - 將軍澳醫院病理部

Anatomical Pathology Laboratory: 3/F, Main Building, Tseung Kwan O Hospital, 2 Po Ning Lane, Hang Hau, Tseung Kwan O, Kln., H.K.
香港九龍將軍澳坑口寶寧里二號將軍澳醫院主座大樓三樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing examinations and for providing clinical interpretation of examinations listed below.			
Anatomical Pathology (cont'd)	**Histopathology** Surgical pathology	Histology examination by H&E and special staining	Specimen preparation and Haematoxylin and Eosin staining by manual and automatic method: Method as documented in HISTO-SOP-Biopsy, HISTO-SOP-Dissect, HISTO-SOP-TP, HISTO-SOP-Embed, HISTO-SOP-PS, HISTO-SOP-HE, HISTO-SOP-Scover, HISTO-SOP-HUS, HISTO-SOP-Slidecheck Special staining (manual method): Methods as documented in HISTO-SOP-SStain For Carbohydrate: Acid mucins by Alcian Blue pH 2.5 Acidic and neutral mucins by Alcian Blue/ Periodic Acid Schiff Glycogen by Periodic Acid Schiff with digestion Glycol groups by Periodic Acid Schiff Mucins by Alcian Blue + Hyaluronidase Mucins by Southgate's Mucicarmine For Connective tissue: Basement membrane by Gomori's Periodic Acid Silver Methenamine Connective tissue by Masson's Trichome Connective tissue by van Gieson's Picro-fuchsin Elastic fibres by Humberstone Victoria Blue Reticulin by Gordon & Sweet's Silver For Microorganisms: Acid-fast bacilli by Ziehl Neelsen Bacteria by Gram Twort Fungi by Grocott's Methenamine Silver Hepatitis B Surface Antigen by Shikata's Orcein Price's Giemsa Mycobacterium leprae by Wade Fite Spirochetes by Warthin-Starry's Silver

Hospital Authority - Tseung Kwan O Hospital, Department of Pathology
醫院管理局 - 將軍澳醫院病理部

Anatomical Pathology Laboratory: 3/F, Main Building, Tseung Kwan O Hospital, 2 Po Ning Lane, Hang Hau, Tseung Kwan O, Kln., H.K.
香港九龍將軍澳坑口寶寧里二號將軍澳醫院主座大樓三樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing examinations and for providing clinical interpretation of examinations listed below.			
Anatomical Pathology (cont'd)	**Histopathology** (cont'd) Surgical pathology (cont'd)	Histology examination by H&E and special staining (cont'd)	Special staining (manual method) (cont'd): For Pigments and Minerals: Bile by Fouchet's Technique Calcium by von Kossa Silver Copper by Rhodanine method Haemosiderin by Perl's Prussian Blue Lipofuscin by Long Ziehl Neelsen Melanin by Masson Fontana ± Bleaching Urate crystal by Grocott's Methenamine Silver Amyloid by Highman's Congo Red and Crystal Violet Fibrin by Martius Scarlet Blue Lipid by Oil Red O or Sudan Black B Mast cells by Chloroacetate Esterase or Toluidine Blue Myelinated fibres by Luxol Fast Blue
	Intra-operative frozen section	Histology examination by H&E staining	Specimen preparation and Haematoxylin and Eosin staining by manual method: Method as documented in HISTO-SOP-IOFS, HISTO-SOP-Biopsy, HISTO-SOP-Dissect, HISTO-SOP-HE, HISTO-QPP-FSReport
	Fresh tissue specimens and biopsies	Histology examination by H&E staining	Specimen preparation and Haematoxylin and Eosin staining by manual method: Method as documented in HISTO-SOP-SpecialBiopsy, HISTO-SOP-Biopsy, HISTO-SOP-HE

Hospital Authority - Tseung Kwan O Hospital, Department of Pathology
醫院管理局 - 將軍澳醫院病理部

Anatomical Pathology Laboratory: 3/F, Main Building, Tseung Kwan O Hospital, 2 Po Ning Lane, Hang Hau, Tseung Kwan O, Kln., H.K.
香港九龍將軍澳坑口寶寧里二號將軍澳醫院主座大樓三樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing examinations and for providing clinical interpretation of examinations listed below.			
Anatomical Pathology (cont'd)	**Immunohistochemistry** Renal, skin biopsies	Immunofluorescence examination by Manual and automated method	Specimen preparation and staining by Direct Immunofluorescence Method as documented in HISTO-SOP-IMH For IgA/IgM/IgG/C1q/Complement 3/ Fibrinogen/Kappa/Lambda Detection system: Bond Polymer Refine Detection by Leica Bondmax immunostainer and Leica Bond III immunostainer
	Histological and cytological specimens	Immunohistochemical examination for various antigen markers by Automatic method	Slide preparation and staining (automatic method): Method as documented in HISTO-SOP-IMH Antigen retrieval: On-board retrieval by Leica Bondmax immunostainer Detection system: Bond Polymer Refine Detection Leica Bondmax immunostainer Antigen retrieval: On-board retrieval by Leica Bond III immunostainer Detection system: Bond Polymer Refine Detection Leica Bond III immunostainer

Hospital Authority - Tseung Kwan O Hospital, Department of Pathology
醫院管理局 - 將軍澳醫院病理部

Core Laboratory: 3/F, Main Building, Tseung Kwan O Hospital, 2 Po Ning Lane, Hang Hau, Tseung Kwan O, Kln., H.K.
香港九龍將軍澳坑口寶寧里二號將軍澳醫院主座大樓三樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing examinations listed below.			
Chemical Pathology	**Blood gases and co-oximetry**		
	Whole blood (Heparinized blood)	Actual Bicarbonate by Auto calculation	Siemens Rapidlab1265 Blood Gas Analyzer
		Base Excess-vt by Auto calculation	Siemens Rapidlab1265 Blood Gas Analyzer
		Ionized calcium by Potentiometry	Siemens Rapidlab1265 Blood Gas Analyzer
		Methaemoglobin by Co-oximetry	Siemens Rapidlab1265 Blood Gas Analyzer
		Carboxyhemoglobin by Co-oximetry	Siemens Rapidlab1265 Blood Gas Analyzer
		O_2 Saturation by Auto calculation	Siemens Rapidlab1265 Blood Gas Analyzer
		pCO_2 by Potentiometry	Siemens Rapidlab1265 Blood Gas Analyzer
		pH by Potentiometry	Siemens Rapidlab1265 Blood Gas Analyzer
		pO_2 by Potentiometry	Siemens Rapidlab1265 Blood Gas Analyzer
		Total CO_2 by Auto calculation	Siemens Rapidlab1265 Blood Gas Analyzer
	General chemistry		
	Serum	Alanine transaminase (ALT) by Spectrophotometry	Beckman Coulter AU5800 analyser, ALT3N Assay
		Albumin by Spectrophotometry	Beckman Coulter AU5800 analyser, ALB1N Assay
		Alkaline Phosphatase (ALP) by Spectrophotometry	Beckman Coulter AU5800 analyser, ALP1N Assay
		Alkaline Phosphatase (ALP), heat stable by Spectrophotometry	Beckman Coulter AU5800 analyser, ALP1N Assay and heat inactivation Method as documented in CORE-SOP-HALP_AU

Hospital Authority - Tseung Kwan O Hospital, Department of Pathology
醫院管理局 - 將軍澳醫院病理部

Core Laboratory: 3/F, Main Building, Tseung Kwan O Hospital, 2 Po Ning Lane, Hang Hau, Tseung Kwan O, Kln., H.K.
香港九龍將軍澳坑口寶寧里二號將軍澳醫院主座大樓三樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing examinations listed below.			
Chemical Pathology (cont'd)	**General chemistry** (cont'd) Plasma, EDTA	Ammonia by Spectrophotometry	Beckman Coulter AU5800 analyser, Thermo Fisher Ammonia OSR 61154 Assay
	Plasma, heparin	Bilirubin, Neonatal by Spectrophotometry	Beckman Coulter AU5800 analyser, TBC1N Assay
	Serum	Amylase by Spectrophotometry	Beckman Coulter AU5800 analyser, AMY2N Assay
		Aspartate aminotransferase (AST) by Spectrophotometry	Beckman Coulter AU5800 analyser, AST3N Assay
		Bilirubin, Direct by Spectrophotometry	Beckman Coulter AU5800 analyser, DBC1N Assay
		Bilirubin, Total by Spectrophotometry	Beckman Coulter AU5800 analyser, TBC1N Assay
		Calcium by Spectrophotometry	Beckman Coulter AU5800 analyser, CAZ1N Assay
		Chloride by Potentiometry (Ion Selective Electrode)	Beckman Coulter AU5800 analyser, Chloride Assay
		Cholesterol by Spectrophotometry	Beckman Coulter AU5800 analyser, CHO1N Assay
		Cholesterol High Density Lipoprotein, (HDL-C) by Spectrophotometry (Direct measurement)	Beckman Coulter AU5800 analyser, HDL1N Assay
		Creatine kinase by Spectrophotometry	Beckman Coulter AU5800 analyser, CKN1N Assay
		Creatinine by Spectrophotometry	Beckman Coulter AU5800 analyser, CRE3N Assay
		Gamma glutamyl transferase by Spectrophotometry	Beckman Coulter AU5800 analyser, GGT2N Assay

Hospital Authority - Tseung Kwan O Hospital, Department of Pathology
醫院管理局 - 將軍澳醫院病理部

Core Laboratory: 3/F, Main Building, Tseung Kwan O Hospital, 2 Po Ning Lane, Hang Hau, Tseung Kwan O, Kln., H.K.
香港九龍將軍澳坑口寶寧里二號將軍澳醫院主座大樓三樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing examinations listed below.			
Chemical Pathology (cont'd)	**General chemistry** (cont'd) Plasma, fluoride	Glucose, 2 hrs by Spectrophotometry	Beckman Coulter AU5800 analyser, GLU1N Assay
		Glucose, fasting by Spectrophotometry	Beckman Coulter AU5800 analyser, GLU1N Assay
		Glucose, spot by Spectrophotometry	Beckman Coulter AU5800 analyser, GLU1N Assay
		Glucose, tolerance test by Spectrophotometry	Beckman Coulter AU5800 analyser, GLU1N Assay
	Serum	Iron by Spectrophotometry	Beckman Coulter AU5800 analyser, FE-1N Assay
	Plasma, fluoride	Lactate by Spectrophotometry	Beckman Coulter AU5800 analyser, LAC1N Assay
	Serum	Lactate Dehydrogenase (LDH) by Spectrophotometry	Beckman Coulter AU5800 analyser, LDH3N Assay
		Lipid profile - Cholesterol, Total by Spectrophotometry	Beckman Coulter AU5800 analyser, CHO1N Assay
		- Cholesterol, High Density Lipoprotein (HDL-C) by Spectrophotometry	Beckman Coulter AU5800 analyser, HDL1N Assay
		- Cholesterol, Low Density Lipoprotein (LDL-C) by Calculation	Beckman Coulter AU5800 (Calculated test using Friedewald Formula)
		- Triglyceride by Spectrophotometry	Beckman Coulter AU5800 analyser, TRG1N Assay

Hospital Authority - Tseung Kwan O Hospital, Department of Pathology
醫院管理局 - 將軍澳醫院病理部

Core Laboratory: 3/F, Main Building, Tseung Kwan O Hospital, 2 Po Ning Lane, Hang Hau, Tseung Kwan O, Kln., H.K.
香港九龍將軍澳坑口寶寧里二號將軍澳醫院主座大樓三樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing examinations listed below.			
Chemical Pathology (cont'd)	**General chemistry** (cont'd) Serum (cont'd)	Liver Function Test by Spectrophotometry, including	
		- Albumin	Beckman Coulter AU5800 analyser, ALB1N Assay
		- ALP	Beckman Coulter AU5800 analyser, ALP1NAssay
		- ALT	Beckman Coulter AU5800 analyser, ALT3N Assay
		- Globulin (calculated)	Beckman Coulter AU5800 (Calculated test using Albumin and Total Protein)
		- Total Bilirubin	Beckman Coulter AU5800 analyser, TBC1N Assay
		- Total Protein	Beckman Coulter AU5800 analyser, TP-1N Assay
		Magnesium by Spectrophotometry	Beckman Coulter AU5800 analyser, MG-1N Assay
		Osmolality by Freezing point depression	Arkray OM-6060 analyser
		Phosphate by Spectrophotometry	Beckman Coulter AU5800 analyser, PHO1N Assay
		Potassium by Potentiometric method	Beckman Coulter AU5800 analyser, Potassium Assay
		Protein, Total by Spectrophotometry	Beckman Coulter AU5800 analyser, TP-1N Assay
		Renal Function Test by Potentiometry and Spectrophotometry, including - Creatinine - Potassium - Sodium - Urea	Beckman Coulter AU5800 respective assays
		Sodium by Potentiometry (Ion Selective Electrode)	Beckman Coulter AU5800 analyser, Sodium Assay
		Triglyceride by Spectrophotometry	Beckman Coulter AU5800 analyser, TRG1N Assay
		Troponin I by Immunoassay (Chemiluminescent label)	Beckman Coulter UniCel DxI 800 analyser, Access hsTNI Assay

Hospital Authority - Tseung Kwan O Hospital, Department of Pathology
醫院管理局 - 將軍澳醫院病理部

Core Laboratory: 3/F, Main Building, Tseung Kwan O Hospital, 2 Po Ning Lane, Hang Hau, Tseung Kwan O, Kln., H.K.
香港九龍將軍澳坑口寶寧里二號將軍澳醫院主座大樓三樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing examinations listed below.			
Chemical Pathology (cont'd)	**General chemistry** (cont'd) Serum (cont'd)	Unsaturated Iron Binding Capacity (UIBC) by Spectrophotometry	Beckman Coulter AU5800 analyser, UBC1N Assay
		Urate by Spectrophotometry	Beckman Coulter AU5800 analyser, UA-1N Assay
		Urea by Spectrophotometry	Beckman Coulter AU5800 analyser, BUN1N Assay
	Spot Urine	Calcium by Spectrophotometry	Beckman Coulter AU5800 analyser, CAZ1N Assay Assay
	Urine (Spot or 24 hour)	Chloride by Potentiometry (Ion Selective Electrode)	Beckman Coulter AU5800 analyser, Chloride Assay
		Creatinine by Spectrophotometry	Beckman Coulter AU5800 analyser, CRE3N Assay
		Magnesium by Spectrophotometry	Beckman Coulter AU5800 analyser, MG-1N Assay
		Microalbumin /Creatinine ratio by Calculation	Beckman Coulter AU5800 (Calculated test using urine albumin and urine creatinine)
		Osmolality by Freezing point depression	Arkray OM-6060 analyser
		Phosphate by Spectrophotometry	Beckman Coulter AU5800 analyser, PHO1N Assay
		Potassium by Potentiometry (Ion Selective Electrode)	Beckman Coulter AU5800 analyser, Potassium Assay
		Protein, Total by Spectrophotometry	Beckman Coulter AU5800 analyser, UCP1N Assay
		Protein /Creatinine ratio by Calculation	Beckman Coulter AU5800 (Calculated test using urine protein and urine creatinine)

Hospital Authority - Tseung Kwan O Hospital, Department of Pathology
醫院管理局 - 將軍澳醫院病理部

Core Laboratory: 3/F, Main Building, Tseung Kwan O Hospital, 2 Po Ning Lane, Hang Hau, Tseung Kwan O, Kln., H.K.
香港九龍將軍澳坑口寶寧里二號將軍澳醫院主座大樓三樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing examinations listed below.			
Chemical Pathology (cont'd)	**General chemistry** (cont'd) Urine (Spot or 24 hour) (cont'd)	Sodium by Potentiometry (Ion Selective Electrode)	Beckman Coulter AU5800 analyser, Sodium Assay
		Urate by Spectrophotometry	Beckman Coulter AU5800 analyser, UA-1N Assay
		Urea by Spectrophotometry	Beckman Coulter AU5800 analyser, BUN1N Assay
	24 hour urine	Creatinine clearance by Calculation	Beckman Coulter AU5800 (Calculated test using urine creatinine, serum creatinine and urine volume)
		Microalbumin by Immunoturbidimetry	Beckman Coulter AU5800 analyser, ULB1G Assay
	Body fluid	Albumin by Spectrophotometry	Beckman Coulter AU5800 analyser, ALB1N Assay
		Amylase by Spectrophotometry	Beckman Coulter AU5800 analyser, AMY2N Assay
		Calcium by Spectrophotometry	Beckman Coulter AU5800 analyser, CAZ1N Assay
		Cholesterol by Spectrophotometry	Beckman Coulter AU5800 analyser, CHO1N Assay
		Glucose by Spectrophotometry	Beckman Coulter AU5800 analyser, GLU1N Assay
		Lactate dehydrogenase (LDH) by Spectrophotometry	Beckman Coulter AU5800 analyser, LDH3N Assay
		Protein, Total by Spectrophotometry	Beckman Coulter AU5800 analyser, TP-1N Assay
		Triglyceride by Spectrophotometry	Beckman Coulter AU5800 analyser, TRG1N Assay

Hospital Authority - Tseung Kwan O Hospital, Department of Pathology
醫院管理局 - 將軍澳醫院病理部

Core Laboratory: 3/F, Main Building, Tseung Kwan O Hospital, 2 Po Ning Lane, Hang Hau, Tseung Kwan O, Kln., H.K.
香港九龍將軍澳坑口寶寧里二號將軍澳醫院主座大樓三樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing examinations listed below.			
Chemical Pathology (cont'd)	**General chemistry** (cont'd)		
	CSF	Glucose by	
		Spectrophotometry	Beckman Coulter AU5800 analyser, GLU1N Assay
		Protein, Total by	
		Spectrophotometry	Beckman Coulter AU5800 analyser, UCP1N Assay
	Special chemistry		
	Stool	Occult blood by	
		Latex agglutination	Kyowa Medex HM-Jack Auto Analyser
	Hormones		
	Serum	Cortisol by	
		Immunoassay (Chemiluminescent label)	Beckman Coulter UniCel DxI 800 analyser, Access Cortisol Assay
		Human Chorionic Gonadotropin (HCG) by	
		Immunoassay (Chemiluminescent label)	Beckman Coulter UniCel DxI 800 analyser, Access Total HCG 5TH IS Assay
		Triiodothyronine, Free (FT3) by	
		Immunoassay (Chemiluminescent label)	Beckman Coulter UniCel DxI 800 analyser, Access Free T3 Assay
		Thyroid function test (TFT) by	
		Immunoassay (Chemiluminescent label) including	
		- Thyroid stimulating hormone (TSH)	Beckman Coulter UniCel DxI 800 analyser, Access TSH (3rd IS) Assay
		- Thyroxine, Free (FT4)	Beckman Coulter UniCel DxI 800 analyser, Access Free T4 Assay
		- Triiodothyronine, Free (FT3)	Beckman Coulter UniCel DxI 800 analyser, Access Free T3 Assay
		Thyroid stimulating hormone (TSH) by	
		Immunoassay (Chemiluminescent label)	Beckman Coulter UniCel DxI 800 analyser, Access TSH (3rd IS) Assay
		Thyroxine, Free (FT4) by	
		Immunoassay (Chemiluminescent label)	Beckman Coulter UniCel DxI 800 analyser, Access Free T4 Assay
	Proteins, quantitative analysis		
	Serum	Ferritin by	
		Immunoassay (Chemiluminescent label)	Beckman Coulter UniCel DxI 800 Ferritin Assay
		C-Reactive Protein (CRP) by	
		Immunoturbidimetry	Siemens Atellica CH CRP_2 Assay

Hospital Authority - Tseung Kwan O Hospital, Department of Pathology
醫院管理局 - 將軍澳醫院病理部

Core Laboratory: 3/F, Main Building, Tseung Kwan O Hospital, 2 Po Ning Lane, Hang Hau, Tseung Kwan O, Kln., H.K.
香港九龍將軍澳坑口寶寧里二號將軍澳醫院主座大樓三樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing examinations listed below.			
Chemical Pathology (cont'd)	**Toxicology** Serum	Acetaminophen by Spectrophotometry	Beckman Coulter AU5800 analyser, ACETAMINOPHEN L3K® Assay
		Ethanol by Spectrophotometry	Beckman Coulter AU5800 analyser, with Thermo Scientific DRI® Ethyl Alcohol Assay
		Salicylate by Spectrophotometry	Beckman Coulter AU5800 analyser, with Siemens Emit® tox™ Salicylic Acid Assay
	Tumour markers Serum	Alpha-feto protein (AFP) by Immunoassay (Chemiluminescent label)	Beckman Coulter UniCel DxI 800 analyser, Access AFP Assay
		CA 125 by Immunoassay (Chemiluminescent label)	Beckman Coulter UniCel DxI 800 analyser, Access OV Monitor Assay
		Carcino-embryonic antigen (CEA) by Immunoassay (Chemiluminescent label)	Beckman Coulter UniCel DxI 800 analyser, Access CEA Assay
		Prostate specific antigen (PSA) by Immunoassay (Chemiluminescent label)	Beckman Coulter UniCel DxI 800 analyser, Access Hybritech PSA Assay

Hospital Authority - Tseung Kwan O Hospital, Department of Pathology
醫院管理局 - 將軍澳醫院病理部

Core Laboratory: 3/F, Main Building, Tseung Kwan O Hospital, 2 Po Ning Lane, Hang Hau, Tseung Kwan O, Kln., H.K.
香港九龍將軍澳坑口寶寧里二號將軍澳醫院主座大樓三樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing examinations listed below.			
Immunology	**Autoantibody**		
	Serum	Rheumatoid Factor (RF) by Immunoturbidimetry	Siemens Atellica CH analyser, RF Assay
	Immunochemistry		
	Serum	Complement C3 (C3) by Immunoturbidimetry	Siemens Atellica CH analyser, C3 Assay
		Complement C4 (C4) by Immunoturbidimetry	Siemens Atellica CH analyser, C4 Assay

Hospital Authority - Tseung Kwan O Hospital, Department of Pathology
醫院管理局 - 將軍澳醫院病理部

Core Laboratory: 3/F, Main Building, Tseung Kwan O Hospital, 2 Po Ning Lane, Hang Hau, Tseung Kwan O, Kln., H.K.
香港九龍將軍澳坑口寶寧里二號將軍澳醫院主座大樓三樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing examinations and for providing clinical interpretation of examinations listed below.			
Haematology	**Coagulation**		
	Citrated plasma	Coagulation studies including	
		- Prothrombin time (PT)	Automated coagulation system: Sysmex CS-5100
		- Activated partial thromboplastin time (APTT)	Viscosity-based detection system - Diagnostic Stago STart® semi-automated analyser
		- Fibrinogen	Automated coagulation system: Sysmex CS-5100
		D-Dimer by	
		- Immunoassay (Enzyme-based label)	BioMerieux mini Vidas D-Dimer Exclusion II Assay
	Haematology - General		
	EDTA whole blood	Complete blood count including	
		- Haemoglobin	Automated system:
		- Haematocrit	Sysmex XN-3000 Haematology System
		- Leucocyte count (WBC count)	
		- Leucocyte differential count	
		- Mean corpuscular volume (MCV)	
		- Mean corpuscular haemoglobin concentration (MCHC)	
		- Mean corpuscular haemoglobin (MCH)	
		- Platelet count	
		- Red cell count	
		- Red cell distribution width (RDW)	
		- Mean platelet volume (MPV)	
		Leucocyte differential count by	
		Automated method	Sysmex XN-3000 Haematology System
		Malaria parasite examination by	
		Thick and thin films	Smear preparation and Giemsa staining as documented in CORE-SOP-MP
		Peripheral blood smear examination by	
		May Grunwald Giemsa	Method as documented in CORE-SOP-CBP-gp
		Reticulocyte count by	
		Automated method	Sysmex XN-3000 Haematology System
		Reticulocyte count by	
		Manual method	Method as documented in CORE-SOP-CBP-gp

Hospital Authority - Tseung Kwan O Hospital, Department of Pathology
醫院管理局 - 將軍澳醫院病理部

Core Laboratory: 3/F, Main Building, Tseung Kwan O Hospital, 2 Po Ning Lane, Hang Hau, Tseung Kwan O, Kln., H.K.
香港九龍將軍澳坑口寶寧里二號將軍澳醫院主座大樓三樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing examinations and for providing clinical interpretation of examinations listed below.			
Haematology (cont'd)	**Haematology - Special**		
	EDTA marrow blood aspirate, clot and trephine biopsy	Bone marrow examination	Smear preparation and staining by May Grunwald Giemsa and Perls' Prussian Blue as documented in CORE-SOP-BM
	EDTA whole blood	Glucose-6-phosphate dehydrogenase screening test (G6PDH) by Fluorescence method	Trinity G6PDH screening Test as documented in CORE-SOP-G6PDH
		Haemoglobin A1c (HbA1c) by High performance liquid chromatography	Premier Hb9210
		Haemoglobin pattern by - Capillary electrophoresis	Sebia Capillarys 2 & method documented in CORE-SOP-HbP_Gp

Hospital Authority - Tseung Kwan O Hospital, Department of Pathology
醫院管理局 - 將軍澳醫院病理部

Blood Bank: 3/F, Main Building, Tseung Kwan O Hospital, 2 Po Ning Lane, Hang Hau, Tseung Kwan O, Kln., H.K.
香港九龍將軍澳坑口寶寧里二號將軍澳醫院主座大樓三樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing examinations and for providing clinical interpretation of examinations listed below.			
Haematology	**Blood bank -** **Antenatal screening**		
	EDTA whole blood	ABO and Rh(D) typing plus antibody investigation if required	Method as documented in BB-SOP-ANScreen using Bio-Rad IH-1000 and Bio-Rad IH-500
	Blood bank - General		
	EDTA whole blood	ABO and Rh (D) typing by Red cell agglutination	Tile and tube techniques as documented in BB-SOP-ABO Typing, Tube technique as documented in BB-SOP-Rh(D) Typing Bio-Rad IH-1000 as documented in BB-SOP-IH1000 Bio-Rad IH-500 as documented in BB-SOP-IH500
		Antibody screening by Indirect antiglobulin test	Bio-Rad gel technique using Bio-Rad IH-1000 and Bio-Rad IH-500
		Crossmatch by Electronic crossmatch Immediate spin Indirect antiglobulin test	Method as documented in BB-SOP-XM, using Bio-Rad IH-1000 and Bio-Rad IH-500
		Indirect antiglobulin test by Saline (NISS)	Conventional technique and pre-warm technique as documented in BB-SOP-Saline-IAT, BB-SOP-Prewarm
		Red cell phenotyping by Direct agglutination Indirect antiglobulin test	Method as documented in BB-SOP-RBC Pheno, BB-SOP-anti-A1, BB-SOP-Anti-H
	Blood bank - **Immunohaematology**		
	Clotted and EDTA whole blood	Direct antiglobulin test by Red cell agglutination	Tube technique as documented in BB-SOP-DAT
		Indirect antiglobulin test by Red cell agglutination	Bio-Rad gel technique using Bio-Rad IH-1000 and Bio-Rad IH-500

Hospital Authority - Tseung Kwan O Hospital, Department of Pathology
醫院管理局 - 將軍澳醫院病理部

Blood Bank: 3/F, Main Building, Tseung Kwan O Hospital, 2 Po Ning Lane, Hang Hau, Tseung Kwan O, Kln., H.K.
香港九龍將軍澳坑口寶寧里二號將軍澳醫院主座大樓三樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing examinations and for providing clinical interpretation of examinations listed below.			
Haematology (cont'd)	**Blood bank - Special** Clotted and EDTA whole blood	Autoimmune haemolytic anaemia	Methods documented in BB-SOP-ABID, BB-SOP-Elution, BB-SOP-Chloroquine
		Transfusion reaction, including - ABO and Rh(D) typing - Antibody screening - Direct antiglobulin test - Crossmatching	Method as documented in BB-SOP-Adverse Rx
		Antibody detection and identification	Method as documented in BB-SOP-ABID, BB-SOP-Panel, BB-SOP- Ab Titre using Bio-Rad IH-1000 and Bio-Rad IH-500

Hospital Authority - Tseung Kwan O Hospital, Department of Pathology
醫院管理局 - 將軍澳醫院病理部

Microbiology Laboratory: 3/F, Main Building, Tseung Kwan O Hospital, 2 Po Ning Lane, Hang Hau, Tseung Kwan O, Kln., H.K.
香港九龍將軍澳坑口寶寧里二號將軍澳醫院主座大樓三樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing examinations and for providing clinical interpretation of examinations listed below.			
Clinical Microbiology and Infection	**Bacteriology - Culture and sensitivity tests and/or microscopy**		
	Blood	Culture and antimicrobial susceptibility tests for pathogens by Aerobic and anaerobic broth culture	Method as documented in MIC-SOP-BCUL using BD BACTEC FX Identification of isolates: Conventional method as documented in MIC-SOP-IDSYM Antimicrobial susceptibility tests: Method as documented in MIC-SOP-STDD & MIC-SOP- STPAN
	Bronchoalveolar lavage (BAL) and Protected Specimen Brushings (PSB)	Microscopy for Cell morphology and bacteria by Gram stain Semi-quantitative culture and antimicrobial susceptibility test by Aerobic, CO_2 and anaerobic culture	Culture and microscopy: Method as documented in MIC-SOP-SPCU Identification of isolates: Conventional method as documented in MIC-SOP-IDSYM Antimicrobial susceptibility tests: Method as documented in MIC-SOP-STDD & MIC-SOP-STPAN
	CSF	Microscopy for Bacteria by Gram stain Culture and antimicrobial susceptibility tests for pathogens by Aerobic and CO_2 culture	Method as documented in MIC-SOP-CSFMC Culture: Method as documented in MIC-SOP-CSFCU Identification of isolates: Conventional method as documented in MIC-SOP-IDSYM Antimicrobial susceptibility tests: Method as documented in MIC-SOP-STDD & MIC-SOP-STPAN

Hospital Authority - Tseung Kwan O Hospital, Department of Pathology
醫院管理局 - 將軍澳醫院病理部

Microbiology Laboratory: 3/F, Main Building, Tseung Kwan O Hospital, 2 Po Ning Lane, Hang Hau, Tseung Kwan O, Kln., H.K.
香港九龍將軍澳坑口寶寧里二號將軍澳醫院主座大樓三樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing examinations and for providing clinical interpretation of examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Bacteriology - Culture and sensitivity tests and/or microscopy** (cont'd)		
	Enteric samples (stool and rectal swab)	Culture and antimicrobial susceptibility test for enteric pathogens by Aerobic and microaerophilic culture	Culture: Method as documented in MIC-SOP-STCU Identification of isolates: Conventional method as documented in MIC-SOP-IDSYM Antimicrobial susceptibility tests: Method as documented in MIC-SOP-STDD & MIC-SOP-STPAN
	Genital samples	Microscopy for Cell morphology and bacteria by Gram Stain Culture and antimicrobial susceptibility test for genital pathogens by Aerobic and CO_2 culture	Culture and microscopy: Method as documented in MIC-SOP-GEN Identification of isolates: Conventional method as documented in MIC-SOP-IDSYM Antimicrobial susceptibility tests: Method as documented in MIC-SOP-STDD & MIC-SOP-STPAN
		Culture and antimicrobial susceptibility test for *Neisseria gonorrhoeae* by CO_2 culture	Culture: Method as documented in MIC-SOP-GEN Identification of isolates: Conventional method as documented in MIC-SOP-IDSYM Antimicrobial susceptibility tests: Method as documented in MIC-SOP-STDD & MIC-SOP-STPAN
	Miscellaneous samples (including pus, body fluid, tissue, swabs, catheters, eye specimens, etc.)	Microscopy for Cell morphology and bacteria by Gram Stain Culture and antimicrobial susceptibility test for pathogens by Aerobic, CO_2 and anaerobic culture	Culture and microscopy: Method as documented in MIC-SOP-MSCU Identification of isolates: Conventional method as documented in MIC-SOP-IDSYM Antimicrobial susceptibility tests: Method as documented in MIC-SOP-STDD & MIC-SOP-STPAN

Hospital Authority - Tseung Kwan O Hospital, Department of Pathology
醫院管理局 - 將軍澳醫院病理部

Microbiology Laboratory: 3/F, Main Building, Tseung Kwan O Hospital, 2 Po Ning Lane, Hang Hau, Tseung Kwan O, Kln., H.K.
香港九龍將軍澳坑口寶寧里二號將軍澳醫院主座大樓三樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing examinations and for providing clinical interpretation of examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Bacteriology - Culture and sensitivity tests and/or microscopy** (cont'd)		
	Urine	Culture and antimicrobial sensitivity test for urinary pathogens by Standard loop method and aerobic culture	Culture: Method as documented in MIC-SOP- URINCU Identification of isolates: Conventional method as documented in MIC-SOP-IDSYM Antimicrobial susceptibility tests: Method as documented in MIC-SOP-STDD & MIC-SOP-STPAN
	Upper respiratory tract samples (including throat swab, oral swab, nasal swab, etc.)	Culture and antimicrobial susceptibility test for respiratory tract pathogens by Aerobic and CO_2 culture	Culture: Method as documented in MIC-SOP-MSCU Identification of isolates: Conventional method as documented in MIC-SOP-IDSYM Antimicrobial susceptibility tests: Method as documented in MIC-SOP-STDD & MIC-SOP-STPAN
	Lower respiratory tract samples (including sputum, bronchial aspirate, tracheal aspirate, etc.)	Microscopy for Cell morphology and bacteria by Gram stain Culture and antimicrobial susceptibility test for respiratory tract pathogens by Aerobic and CO_2 culture	Culture and microscopy: Method as documented in MIC-SOP-SPCU Identification of isolates: Conventional method as documented in MIC-SOP-IDSYM Antimicrobial susceptibility tests: Method as documented in MIC-SOP-STDD & MIC-SOP-STPAN
	Clinical isolates	Identification of clinical isolates by MALDI-TOF Mass Spectrometry	Method as documented in MIC-SOP-MALDI MicroFlex LT System, Bruker Daltonics
		Antimicrobial susceptibility test for pathogens by Automated reading and interpretation system	BIOMIC Microbiology System Method as documented in MIC-SOP-BIOMIC

Hospital Authority - Tseung Kwan O Hospital, Department of Pathology
醫院管理局 - 將軍澳醫院病理部

Microbiology Laboratory: 3/F, Main Building, Tseung Kwan O Hospital, 2 Po Ning Lane, Hang Hau, Tseung Kwan O, Kln., H.K.
香港九龍將軍澳坑口寶寧里二號將軍澳醫院主座大樓三樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing examinations and for providing clinical interpretation of examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Bacteriology - Serology**		
	Serum	Anti-Streptolysin O antibody by	
		Latex agglutination test	BIOKIT rheumajet ASO Method as documented in MIC-SOP-SERO
		Brucella antibody by	
		Agglutination test	Method as documented in MIC-SOP-SERO
		Rickettsial antibody by	
		Agglutination test (Weil Felix test)	Method as documented in MIC-SOP-SERO
	Microscopy - Miscellaneous		
	CSF	Microscopy for	
		Cell count by	
		Counting chamber	Method as documented in MIC-SOP-CSFMC
	Mycobacteriology - Microscopy		
	CSF, respiratory and miscellaneous specimens	Microscopy for acid fast bacilli (AFB) by	
		- Auramine O fluorescent stain	Method as documented in MIC-SOP-AO and MIC-SOP-STAINM
		- Ziehl Neelsen stain	

Hospital Authority - Tseung Kwan O Hospital, Department of Pathology
醫院管理局 - 將軍澳醫院病理部

Microbiology Laboratory: 3/F, Main Building, Tseung Kwan O Hospital, 2 Po Ning Lane, Hang Hau, Tseung Kwan O, Kln., H.K.
香港九龍將軍澳坑口寶寧里二號將軍澳醫院主座大樓三樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing examinations and for providing clinical interpretation of examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Mycology - Culture, identification and serology**		
	Blood	Culture for fungi by Aerobic broth culture	Method as documented in MIC-SOP-BCUL using BD BACTEC FX Identification of isolates: Method as documented in MIC-SOP-MYCO
	CSF, serum	*Cryptococcal* antigen by Quantitative lateral flow assay	Method as documented in MIC-SOP-CRAG
	Mycology - Microscopy		
	CSF	Microscopy for Encapsulated yeast by India ink	Method as documented in MIC-SOP-CSFMC
		Microscopy for Fungal elements and yeasts by Gram stain *Cryptococcus neoformans* by India Ink smear Culture for fungi by Aerobic culture	Culture and microscopy: Method as documented in MIC-SOP-CSFCU & MIC-SOP-CSFMC Identification of isolates: Method as documented in MIC-SOP-MYCO
	Miscellaneous samples (excluding blood, CSF and dermatological samples)	Microscopy for Fungal elements and yeasts by Gram stain Culture for fungi by Aerobic culture	Culture and microscopy: Method as documented in MIC-SOP-MYCO Identification of isolates: Method as documented in MIC-SOP-MYCO

Hospital Authority - Tseung Kwan O Hospital, Department of Pathology
醫院管理局 - 將軍澳醫院病理部

Microbiology Laboratory: 3/F, Main Building, Tseung Kwan O Hospital, 2 Po Ning Lane, Hang Hau, Tseung Kwan O, Kln., H.K.
香港九龍將軍澳坑口寶寧里二號將軍澳醫院主座大樓三樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing examinations and for providing clinical interpretation of examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Parasitology**		
	Stool	Microscopy for enteric parasites by	
		Direct wet smear	Method as documented in MIC-SOP-PARA
		Smear after concentration	
	Miscellaneous samples (excluding stool)	Microscopy for parasites by	
		Direct wet smear	Method as documented in MIC-SOP-PARA
		Smear after concentration	
	Syphilis serology		
	Serum	Reagin antibodies in response to *Treponemal* infection by	
		Rapid Plasma Reagin (RPR)	Becton Dickinson Macro-Vue RPR Card Tests Kit Method as documented in MIC-SOP-SERO
		Treponema pallidum antibody by	
		Immunoassay (Chemiluminescent label)	Abbott ARCHITECT i1000SR Syphilis TP Assay Method as documented in MIC-SOP-TPA
	Urinalysis and/or urine microscopy		
	Urine	Urinalysis by	
		dipstick	Siemens Multistix® 10 SG & Clinitek Advantus ™:
		Glucose	Method as documented in MIC-SOP-CLINTEK and
		Bilirubin	MIC-SOP-URINRM
		Ketone	Roche Cobas u601 urine analyzer
		Specific gravity	Method as documented in MIC-SOP-URINRM &
		Blood	MIC-SOP-COBAS
		pH	
		Protein	
		Urobilinogen	
		Nitrite	
		Urine formed element by	
		Microscopic examination with fixed volume in microtitre plate well	Method as documented in MIC-SOP-URINRM Roche Cobas u701 microscopy analyzer Method as documented in MIC-SOP-URINRM & MIC-SOP-COBAS

Hospital Authority - Tseung Kwan O Hospital, Department of Pathology
醫院管理局 - 將軍澳醫院病理部

Microbiology Laboratory: 3/F, Main Building, Tseung Kwan O Hospital, 2 Po Ning Lane, Hang Hau, Tseung Kwan O, Kln., H.K.
香港九龍將軍澳坑口寶寧里二號將軍澳醫院主座大樓三樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing examinations and for providing clinical interpretation of examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Virology - Serology** Serum	Anti-HBs (Quantitative) by Immunoassay (Chemiluminescent label)	Abbott ARCHITECT *i*1000SR Anti-HBs Assay Method as documented in MIC-SOP-VIRO
		Hepatitis B virus surface antigen (HBsAg) by Immunoassay (Chemiluminescent label)	Abbott ARCHITECT *i*1000SR HBsAg Qualitative II Assay HBsAg Qualitative II Confirmative Assay
		Immunochromatographic assay	Standard Diagnostic (SD) HBsAg Method as documented in MIC-SOP-VIRO
		Human immunodeficiency virus antibody by Immunoassay (Chemiluminescent label)	Abbott ARCHITECT *i*1000SR HIV Ag/Ab Combo Assay Method as documented in MIC-SOP-VIRO

Hospital Authority - Tseung Kwan O Hospital, Department of Pathology
醫院管理局 - 將軍澳醫院病理部

Microbiology Laboratory: 3/F, Main Building, Tseung Kwan O Hospital, 2 Po Ning Lane, Hang Hau, Tseung Kwan O, Kln., H.K.
香港九龍將軍澳坑口寶寧里二號將軍澳醫院主座大樓三樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing examinations and for providing clinical interpretation of examinations listed below.			
Medical Genetics	**Molecular Genetics** Respiratory specimens	Influenza A virus, Influenza B virus and Respiratory syncytial virus – detection by Reverse Transcription Real Time Polymerase Chain Reaction, Qualitative (Target region: Influenza A virus: M, PB2 and PA gene Influenza B virus: M and NS gene RSV: RSV A and RSV B gene)	Cepheid Xpert Xpress Flu/RSV Assay Nucleic acid extraction and detection as documented in MIC-SOP-GXPERT
		Influenza A virus, Influenza B virus, Respiratory syncytial virus and Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) – detection by Reverse Transcription Real Time Polymerase Chain Reaction, Qualitative (Target region: Influenza A virus: M, PB2 and PA gene Influenza B virus: M and NS gene RSV: RSV A and RSV B gene SARS-CoV-2: E and N2 gene)	Cepheid Xpert Xpress SARS-CoV-2/Flu/RSV Assay Nucleic acid extraction and detection as documented in MIC-SOP-GXPERT
		Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) – detection by Reverse Transcription Real Time Polymerase Chain Reaction, Qualitative (Target region: E and N2 gene	Cepheid Xpert Xpress SARS-CoV-2 Assay Nucleic acid extraction and detection as documented in MIC-SOP-GXPERT

Hospital Authority - Haven of Hope Hospital (HHH), Department of Pathology (Branch facility of Tseung Kwan O Hospital)

醫院管理局 - 靈實醫院病理部 (將軍澳醫院支部)

TB Laboratory: 2/F, Haven of Hope Hospital, 8 Haven of Hope Road, Tseung Kwan O, Kln., H.K.

香港九龍將軍澳靈實路八號靈實醫院二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing examinations and for providing clinical interpretation of examinations listed below.			
Clinical Microbiology and Infection	**Mycobacteriology - Microscopy** Respiratory tract and miscellaneous samples	Microscopy for acid-fast bacilli (AFB) by - Auramine O fluorescent stain - Ziehl-Neelsen stain	Method documented in TB-SOP-SMEAR and TB-SOP-Metasystem
		Culture for acid-fast bacilli (AFB) by - Conventional method (LJ and Kirchner) - Broth culture method (BD MGIT medium) - Automated Blood culture method (BACTEC medium)	Specimen processing: Method as documented in TB-SOP-SPPROCESS Culture for AFB: Method as documented in TB-SOP-AFBCULTURE
	Mycobacteriology - Identification and/or Sensitivity test *Mycobacterium* isolates	Identification of *Mycobacterium tuberculosis* in culture by Immunochromatographic Test	TB Ag MPT64 Test for *Mycobacterium tuberculosis* complex by Standard Diagnostics Inc.

Hospital Authority - Haven of Hope Hospital (HHH), Department of Pathology (Branch facility of Tseung Kwan O Hospital)

醫院管理局 - 靈實醫院病理部 (將軍澳醫院支部)

TB Laboratory: 2/F, Haven of Hope Hospital, 8 Haven of Hope Road, Tseung Kwan O, Kln., H.K.

香港九龍將軍澳靈實路八號靈實醫院二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing examinations and for providing clinical interpretation of examinations listed below.			
Medical Genetics	**Molecular Genetics** Respiratory specimens	Simultaneous detection of *Mycobacterium tuberculosis complex* DNA and resistance to Rifampicin by Real Time Polymerase Chain Reaction (Target gene: *rpoB*)	Nucleic acid extraction and detection by Cepheid GeneXpert System

Hospital Authority - Haven of Hope Hospital (HHH), Department of Pathology (Branch facility of Tseung Kwan O Hospital)

醫院管理局 - 靈實醫院病理部 (將軍澳醫院支部)

Blood Bank: 2/F, Haven of Hope Hospital, 8 Haven of Hope Road, Tseung Kwan O, Kln., H.K.

香港九龍將軍澳靈實路八號靈實醫院二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing examinations and for providing clinical interpretation of examinations listed below.			
Haematology	**Haematology - Miscellaneous**		
	Blood products	Issue of blood products	As documented in BB-SOP-HHH service, BB-SOP- XM, BB-SOP- ISSUE RETURN

Hospital Authority - Hong Kong Red Cross Blood Transfusion Service
醫院管理局 - 香港紅十字會輸血服務中心

ADDRESS : 15 King's Park Rise, Kowloon, Hong Kong
地址 九龍京士柏道十五號

ENQUIRY : Mr Beny CHAN Kam-hung
查詢 陳錦雄先生

TELEPHONE : 2710 1238
電話

FAX : 2781 8434
傳真

E-MAIL : ckh264@ha.org.hk
電郵

WEBSITE ADDRESS : N.A.
網址

CLIENTELE :
服務對象

Medical Testing	: Public and private hospitals and clinics
醫務化驗	: 公營及私營醫院和診所
Proficiency Testing Providers	: Local and overseas laboratories
能力驗證提供者	: 本地及外地實驗所

Hospital Authority - Hong Kong Red Cross Blood Transfusion Service
醫院管理局 - 香港紅十字會輸血服務中心

ADDRESS
地址 : 15 King's Park Rise, Kowloon, Hong Kong
香港九龍京士柏道十五號

(i) Reference Laboratory, 4/F, New Annex Building
(ii) Cord Blood Bank, 2M/F, New Annex Building
(iii) Quality Control and Calibration Laboratory, 1M/F, New Annex Building
(iv) Infectious Diseases Screening Laboratory, 3/F, New Annex Building
(v) Microbiology Laboratory, 4/F, New Annex Building
(vi) Nucleic Acid Testing Laboratory, 3/F, New Annex Building
(vii) Blood Grouping Laboratory, 4/F, New Annex Building

LABORATORY DIRECTOR
化驗所主管 : **Pathologist Director 病理學主管:**
Dr TSOI Wai-chiu
蔡偉超醫生
MBChB, FRCPA, FHKCPath, FHKAM(Path)

PATHOLOGIST IN CHARGE OF THE ACCREDITED DISCIPLINE
負責認可範疇的病理學專科醫生 : Haematology 血液學
Dr TSOI Wai-chiu 蔡偉超醫生 (Full-time 全職)

ACCREDITED TEST CATEGORIES
認可測試類別 : **Medical Testing 醫務化驗**

Clinical Microbiology and Infection	臨床微生物學及傳染病
Haematology	血液學
Medical Genetics (Molecular Genetics)	醫學遺傳學 (分子遺傳學)

Proficiency Testing Providers 能力驗證提供者

* * * * * * * * *

Hospital Authority - Hong Kong Red Cross Blood Transfusion Service
醫院管理局 - 香港紅十字會輸血服務中心
Reference Laboratory: 4/F, New Annex Building, 15 King's Park Rise, Kowloon, Hong Kong
參考研究化驗室: 香港九龍京士柏道十五號新翼大樓四樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology	**Blood Bank – Antenatal screening**		
	EDTA blood and clotted blood	Investigation of haemolytic disease of newborn, including:	
		ABO and Rh(D) typing by	
		Red Cell Agglutination	Method as documented in WIRFL311 and WIRFL312
		Red cell antigen phenotyping by	
		Direct Agglutination Test	Method as documented in WIRFL311
		Indirect Antiglobulin Test	Method as documented in WIRFL311
		Antibody identification by tests as listed above	Method as documented in WIRFL314 and WIRFL319
	Blood Bank – General		
	EDTA blood	Red cell antigen phenotyping by	
		Direct Agglutination test	Method as documented in WIRFL311 and WIRFL401
		Indirect Antiglobulin test	Method as documented in WIRFL311 and WIRFL401
		Solid phase red cell adherence	Immucor NEO IRIS autoanalyser Method as documented in WIRFL401 and WIRFL804
	Blood Bank – Special		
	EDTA blood and clotted blood	Antibody identification by	
		Direct Agglutination Test	Method as documented in WIRFL314
		Direct Antiglobulin Test by	
		Conventional method	Method as documented in WIRFL314
		Bio-Rad GEL test	Method as documented in WIRFL314
		Saline Indirect Antiglobulin Test	Method as documented in WIRFL314
		Polyethylene glycol - Indirect Antiglobulin Test	Method as documented in WIRFL314
		Enzyme - Indirect Antiglobulin Test	Method as documented in WIRFL314
		Low Ionic Strength Solution - Indirect Antiglobulin Test	Method as documented in WIRFL314
		Bio-Rad GEL - Indirect Antiglobulin Test	Method as documented in WIRFL314

Hospital Authority - Hong Kong Red Cross Blood Transfusion Service
醫院管理局 - 香港紅十字會輸血服務中心
Reference Laboratory: 4/F, New Annex Building, 15 King's Park Rise, Kowloon, Hong Kong
參考研究化驗室: 香港九龍京士柏道十五號新翼大樓四樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology (cont'd)	**Blood Bank – Special** (cont'd)		
	EDTA blood and clotted blood (cont'd)	Antibody identification (cont'd): Antibody adsorption by Human platelet concentrate adsorption	Method as documented in WIRFL317
		Warm/Cold autologous adsorption - ZZAP technique	Method as documented in WIRFL317
		Warm/Cold homologous adsorption- Enzyme treated technique	Method as documented in WIRFL317
		Heat elution	Method as documented in WIRFL316
		Acid elution	Method as documented in WIRFL316
		Antibody neutralization - Urine neutralization test - Pooled plasma inhibition test	 Method as documented in WIRFL317 Method as documented in WIRFL317
		Antibody titration	Method as documented in WIRFL314
	EDTA blood	Solid phase red cell adherence	Immucor NEO IRIS autoanalyser Method as documented in WIRFL401 & WIRFL804
	EDTA blood and clotted blood	ABO blood grouping anomaly investigation: ABO – by Red Cell Agglutination	 Method as documented in WIRFL312
		ABO – by Adsorption and elution for weak ABO variant	 Method as documented in WIRFL313
	Saliva	ABO – by Saliva Testing for ABH Substances	 Method as documented in WIRFL313

Hospital Authority - Hong Kong Red Cross Blood Transfusion Service
醫院管理局 - 香港紅十字會輸血服務中心
Reference Laboratory: 4/F, New Annex Building, 15 King's Park Rise, Kowloon, Hong Kong
參考研究化驗室: 香港九龍京士柏道十五號新翼大樓四樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology (cont'd)	**Blood Bank – Special** (cont'd)		
	EDTA blood	Rh(D) anomaly investigation : Rh(D) – by Red Cell Agglutination	 Method as documented in WIRFL312
		Rh(D) – Weak D Testing by Indirect Antiglobulin Test	 Method as documented in WIRFL313
		Rh(D) – Test for DEL phenotype by Adsorption and elution	 Method as documented in WIRFL313
		Rh(D) – Partial D Typing by partial D typing kit	 Method as documented in WIRFL313
	EDTA blood and clotted blood	Transfusion reaction, including: ABO and Rh(D) typing by Red Cell Agglutination	 Method as documented in WIRFL311 and WIRFL312
		Red cell antigen phenotyping by Direct Agglutination Test Indirect Antiglobulin Test	 Method as documented in WIRFL401 Method as documented in WIRFL401
		Antibody identification by tests as listed above	Methods as documented in WIRFL314 and WIRFL317
		Crossmatching by Direct Agglutination Test Indirect Antiglobulin Test	 Method as documented in WIRFL318 Method as documented in WIRFL318

Hospital Authority - Hong Kong Red Cross Blood Transfusion Service
醫院管理局 - 香港紅十字會輸血服務中心
Cord Blood Bank: 2M/F, New Annex Building, 15 King's Park Rise, Kowloon, Hong Kong
臍血庫: 香港九龍京士柏道十五號新翼大樓二樓閣樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology	**Haematology – Special** Cord blood, peripheral blood, stem cell, bone marrow	Automated haematology counting, including - Platelet count - Red blood cell count - White blood cell count	Sysmex XN-350 Haematology Analyser
		Automated Haemoglobin Determination	Sysmex XN-350 Haematology Analyser
		Viable CD34+ cell enumeration	Beckman Coulter Navios Ex Flow Cytometer

Hospital Authority - Hong Kong Red Cross Blood Transfusion Service
醫院管理局 - 香港紅十字會輸血服務中心
Quality Control and Calibraton Laboratory: 1M/F, New Annex Building, 15 King's Park Rise, Kowloon, Hong Kong
質量控制及校正化驗室: 香港九龍京士柏道十五號新翼大樓一樓閣樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology	**Haematology – General**		
	EDTA blood, platelet concentrate and plasma	Automated Haematology Counting: White Blood Cell Count Red Blood Cell Count Platelet Count	Beckman Coulter DxH900 Haematology Analyser
		Automated Haemoglobin Determination	Beckman Coulter DxH900 Haematology Analyser
	Haematology – Special		
	Cord blood, peripheral blood, stem cell, bone marrow	Nucleated cell count, total	Beckman Coulter DxH900 Haematology Analyser

Hospital Authority - Hong Kong Red Cross Blood Transfusion Service
醫院管理局 - 香港紅十字會輸血服務中心
Infectious Diseases Screening Laboratory: 3/F, New Annex Building, 15 King's Park Rise, Kowloon, Hong Kong
傳染病檢驗化驗室: 香港九龍京士柏道十五號新翼大樓三樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection	**Syphilis serology** EDTA blood and clotted blood	*Treponema pallidum* antibody by Immunoassay (Chemiluminescent label)	Abbott ARCHITECT i2000SR Syphilis TP assay
		Treponema pallidum Passive Particle Agglutination examination (TPPA)	Method as documented I nWIIDS241 using SERODIA TPPA kit
	Virology – Serology EDTA blood and clotted blood	Cytomegalovirus antibody (IgG) by Immunoassay (Chemiluminescent label)	Abbott ARCHITECT i2000SR CMV IgG assay
		Cytomegalovirus antibody (IgM) by Immunoassay (Chemiluminescent label)	Abbott ARCHITECT i2000SR CMV IgM assay
		Hepatitis C virus antibody by Immunoassay (Chemiluminescent microparticle immunoassay (CMIA))	Abbott Alinity s Anti-HCVII assay, WIIDS240
		Immunoassay (Enzyme-based label)	Murex anti-HCV version 4.0
		Human immunodeficiency virus antigen and antibody by Immunoassay (Chemiluminescent microparticle immunoassay (CMIA))	Abbott Alinity s HIV Ag/Ab Combo assay, WIIDS240
		Immunoassay (Enzyme-based label)	HIV Duo Ultra and VIDAS instrument, bioMerieux
		Human T-cell lymphotropic virus I and II antibody by Immunoassay (Chemiluminescent microparticle immunoassay (CMIA))	Abbott Alinity s HTLV I/II assay, WIIDS240
		Hepatitis B surface antigen (HBsAg) by Immunoassay (Chemiluminescent microparticle immunoassay (CMIA))	Abbott Alinity s HBsAg assay, WIIDS240

Hospital Authority - Hong Kong Red Cross Blood Transfusion Service
醫院管理局 - 香港紅十字會輸血服務中心
Microbiology Laboratory: 4/F, New Annex Building, 15 King's Park Rise, Kowloon, Hong Kong
微生物學化驗室: 香港九龍京士柏道十五號新翼大樓四樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection	**Microbiology** – **Miscellaneous tests** Platelet samples	Bacterial surveillance tests	Method as documented in WIMBL203 (BacT/ALERT BPA and BPN culture bottles used with BacT/ALERT microbial System by bioMerieux)

Hospital Authority - Hong Kong Red Cross Blood Transfusion Service
醫院管理局 - 香港紅十字會輸血服務中心
Nucleic Acid Testing Laboratory: 3/F, New Annex Building, 15 King's Park Rise, Kowloon, Hong Kong
核酸測試化驗室: 香港九龍京士柏道十五號新翼大樓三樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics	**Molecular Genetics** EDTA blood	Detection of Hepatitis B virus, qualitative by Nucleic Acid Amplification Test (Target gene: proprietary)	Nucleic acid extraction, amplification and detection by Procleix PANTHER system, Procleix UltrioPlex E Assay Method as documented in WINAT210 and WINAT202
		Detection of Hepatitis C virus, qualitative by Nucleic Acid Amplification Test (Target gene: proprietary)	Nucleic acid extraction, amplification and detection by Procleix PANTHER system, Procleix UltrioPlex E Assay Method as documented in WINAT210 and WINAT202
		Detection of Human immunodeficiency virus, qualitative by Nucleic Acid Amplification Test (Target gene: proprietary)	Nucleic acid extraction, amplification and detection by Procleix PANTHER system, Procleix UltrioPlex E Assay Method as documented in WINAT210 and WINAT202
		Detection of Hepatitis E virus, qualitative by Nucleic Acid Amplification Test (Target gene: proprietary)	Nucleic acid extraction, amplification and detection by Procleix PANTHER system, Procleix UltrioPlex E Assay Method as documented in WINAT210 and WINAT202

Hospital Authority - Hong Kong Red Cross Blood Transfusion Service
醫院管理局 - 香港紅十字會輸血服務中心
Blood Grouping Laboratory: 4/F, New Annex Building, 15 King's Park Rise, Kowloon, Hong Kong
血型檢測化驗室: 香港九龍京士柏道十五號新翼大樓四樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology	**Blood Bank – General** EDTA blood	ABO grouping by Automated microplate agglutination	Beckman Coulter PK7400 Automated Blood Grouping Analyser Method as documented in WIBGL203
		Manual agglutination	Method as documented in WIBGL303
		D typing by Automated microplate agglutination	Beckman Coulter PK7400 Automated Blood Grouping Analyser Method as documented in WIBGL203
		Manual agglutination	Method as documented in WIBGL303
		ABO and D typing by Automated column agglutination	Bio-Rad IH-500 Autoanalyser Method as documented in WIBGL601
		Antibody Screening by Solid phase red cell adherence	Immucor NEO IRIS autoanalyser Method as documented in WIBGL512

Hospital Authority - Hong Kong Red Cross Blood Transfusion Service
醫院管理局 - 香港紅十字會輸血服務中心
15 King's Park Rise, Kowloon, Hong Kong
香港九龍京士柏道十五號

PROVISION OF PROFICIENCY TESTING SCHEMES 提供能力驗證		
PROFICIENCY TESTING SCHEME AND ITEM 能力驗證計劃及項目	**MEASURAND OR CHARACTERISTIC MEASURED** 測試參數或特質	**PROFICIENCY TESTING SCHEME PROCEDURE#** 能力驗證計劃程序
Proficiency Testing Scheme for Medical Testing:		
Blood Transfusion Serology and Practice		Procedures as documented in
Human red cells and plasma	- ABO and D Grouping	WIRFL551 and WIRFL552
Human plasma	- Red Cell Antibody Detection • Antibody screening • Antibody identification	
Human red cells and plasma	- Crossmatching	
Human red cells	- Red Cell Phenotyping	
Human red cells	- Direct Antiglobulin Test	

INCLUDING PROCEDURES FOR DETERMINING ASSIGNED VALUES AND THE UNCERTAINTY

Hospital Authority - United Christian Hospital, Department of Pathology
醫院管理局，基督教聯合醫院，病理部

ADDRESS : L02, Blk. S, Dept. of Pathology, 130 Hip Wo Street, Kwun Tong, Kowloon
地址 九龍觀塘協和街 130 號邵逸夫大樓二樓

ENQUIRY : Mr WONG Chi-keung
查詢 黃志強先生

TELEPHONE : 3949 4315
電話

FAX : 3949 5613
傳真

E-MAIL : cwckz02@ha.org.hk
電郵

CLIENTELE : Public and private hospitals and clinics
服務對象 公營及私營醫院和診所

Hospital Authority – United Christian Hospital, Department of Pathology
醫院管理局，基督教聯合醫院，病理部

ADDRESS
地址 : L02, Block S, Department of Pathology, 130 Hip Wo Street, Kwun Tong, Kowloon
九龍觀塘協和街 130 號邵逸夫大樓二樓

(i) Autopsy Service, B03, Block S
(ii) Anatomical Pathology Laboratory, L02, Block S
(iii) Chemical Pathology Laboratory, L02, Block S
(iv) Microbiology Laboratory, L02, Block S
(v) Haematology Laboratory, L02, Block S
(vi) Blood Bank, L02, Block S

LABORATORY DIRECTOR
化驗所主管 : **Pathologist Director 病理學主管:**
Dr FUNG Ngai-sheung
馮藝嫦醫生
MBChB, FHKCPath, FRCPA, FHKAM (Pathology), FIAC, PDipMDPath

PATHOLOGIST IN CHARGE OF THE ACCREDITED DISCIPLINE
負責認可範疇的病理學專科醫生 :

Anatomical Pathology 解剖病理學
Dr Clary LEE Ka-lai 李嘉麗醫生 (Full-time 全職)

Chemical Pathology 化學病理學
Dr Angel CHAN On-kei 陳安琪醫生 (Full-time 全職)

Clinical Microbiology and Infection 臨床微生物學及傳染病
Dr CHAU Ka-yee 周嘉宜醫生 (Full-time 全職)

Haematology 血液學
Dr Joyce KWONG Hoi-yi 鄺凱怡醫生 (Full-time 全職)

ACCREDITED TEST CATEGORY
認可測試類別 : **Medical Testing 醫務化驗**

Anatomical Pathology	解剖病理學
Chemical Pathology	化學病理學
Clinical Microbiology and Infection	臨床微生物學及傳染病
Haematology	血液學
Immunology	免疫學
Medical Genetics (Molecular Genetics)	醫學遺傳學（分子遺傳學）

Hospital Authority – United Christian Hospital, Department of Pathology
醫院管理局，基督教聯合醫院，病理部
Anatomical Pathology Laboratory: L02, Block S, Department of Pathology, 130 Hip Wo Street, Kwun Tong, Kowloon
九龍觀塘協和街 130 號邵逸夫大樓二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology	**Cytopathology** Gynaecological specimens	Gynaecological cytology examination by Papanicolaou staining	Specimen preparation and routine staining: ThinPrep + Papanicolaou stain Equipment: ThinPrep 2000 & ThinPrep 5000 Method as documented in OPACPU001, 002, 011, 012, 014, 015, 016, 019 & 020; OPACST001 & 003
	Non-gynaecological specimens	Non-gynaecological cytology examination by H&E, Papaniolaou and special staining	Specimen preparation and routine staining: Haematoxylin and Eosin stain Papanicolaou stain Method as documented in OPACPU001-010, 014, 015, 017, 019 & 020; OPACST001, 003-005 Special staining (manual method): Method as documented in OPACST002; OPAHSP001 Grocott's Methenamine Silver stain Perls' Prussian Blue stain Oil Red O stain Ziehl-Neelsen stain and other staining methods in Histopathology Lab
	Fine needle aspirates	Fine Needle Aspiration cytology examination by H&E, Papaniolaou and special staining	Specimen collection, preparation and routine staining (both automatic and manual method): Haematoxylin and Eosin stain Papanicolaou stain May Grunwald-Giemsa stain Cell block preparation and other staining methods in Histopathology Lab: Method as documented in OPAFNA004-005; OPACPU001-005, 009, 019 & 020; OPACST001, 003 & 004; OPAHSP001

Hospital Authority – United Christian Hospital, Department of Pathology
醫院管理局，基督教聯合醫院，病理部
Anatomical Pathology Laboratory: L02, Block S, Department of Pathology, 130 Hip Wo Street, Kwun Tong, Kowloon
九龍觀塘協和街 130 號邵逸夫大樓二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology (cont'd)	**Histopathology** Surgical pathology	Histology examination by H&E and special staining	Specimen preparation and Haematoxylin and Eosin staining by manual and automatic staining method: Method as documented in OPAHGE001-024; OPAHSP001 Special staining (manual method): Method as documented in OPAHSP001 Alcian Blue stain Chromotrope-Aniline Blue stain Crystal Violet stain Giemsa stain Gomori's Trichrome (Rapid, one step) stain Gordon & Sweet's stain Gram stain Grocott's Methenamine Silver stain Hale's Colloidal Iron stain Highman's Congo Red stain Lactate Dehydrogenase Reaction Long Ziehl-Neelsen stain Martius yellow - Scarlet red - soluble Blue (MSB) stain Masson Trichrome stain Modified Giemsa Oil red O stain Orcein (Tarzer-Unna) stain Periodic Acid-Schiff stain with or without digestion Periodic Acid-Silver Methenamine (PASM) stain Perls' Prussian Blue stain Schmorl stain with/without bleaching Southgate's Mucicarmine stain Toluidine Blue stain Van Gieson stain Victoria Blue stain Von Kossa stain Wade-Fite stain Warthin-Starry stain Ziehl-Neelsen stain

Hospital Authority – United Christian Hospital, Department of Pathology
醫院管理局，基督教聯合醫院，病理部
Anatomical Pathology Laboratory: L02, Block S, Department of Pathology, 130 Hip Wo Street, Kwun Tong, Kowloon
九龍觀塘協和街 130 號邵逸夫大樓二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology (cont'd)	**Histopathology** (cont'd) Muscle biopsies	Enzyme Studies by Special staining	Method as documented in OPAIHC007, 010-012; OPAHSP001 Special stains: Gomori's Trichrome stain Nicotinamide Adenine Dinucleotide - Tetrazolium Reductase (NADH-TR) stain Oil Red O stain Periodic Acid Schiff stain Succinate Dehydrogenase (SDH-NBT) stain Immunohistochemical stains: MHCf, MHCs & MHCn
	Rectal biopsies	Enzyme Studies by Special staining	Special Staining: Method as documented in OPAIHC006 & 009 Acetylcholinesterase stain
	Intra-operative frozen section for fresh tissue specimens	Frozen section followed by paraffin section histology examination by H&E staining	Specimen preparation and routine staining: Method as documented in OPAHGE009 & OPAHSP001 Routine staining used: Haematoxylin and Eosin stain (manual)

Hospital Authority – United Christian Hospital, Department of Pathology
醫院管理局，基督教聯合醫院，病理部
Anatomical Pathology Laboratory: L02, Block S, Department of Pathology, 130 Hip Wo Street, Kwun Tong, Kowloon
九龍觀塘協和街 130 號邵逸夫大樓二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology (cont'd)	**Histopathology** (cont'd) Histological and cytological specimen	Immunohistochemical examination for various antigen markers by Automation and manual method	Slide preparation and staining (Ventana BenchMark ULTRA Advanced Staining System): Method as documented in OPAIHC002-003 Detection system: Optiview DAB detection kit Antigen retrieval: Heat-induced epitope retrieval or enzymatic digestion Leica Bond-III immunostainer: Method as documented in OPAIHC015 Detection system: Bond Polymer Refine detection kit Antigen retrieval: Heat-induced epitope retrieval or enzymatic digestion Dako Omnis immunostainer: Method as documented in OPAIHC016 Detection system: EnVision FLEX system Antigen retrieval: Heat-induced epitope retrieval or enzymatic digestion
	Histological and cytological specimen	Epstein-Barr Virus-Encoded Small RNA (EBER) – Detection by In-situ Hybridization (ISH)	Slide preparation and staining (Ventana BenchMark ULTRA Advanced Staining System): Method as documented in OPAIHC002-003 Detection system: Ventana ISH i-view blue detection kit

Hospital Authority – United Christian Hospital, Department of Pathology
醫院管理局，基督教聯合醫院，病理部
Anatomical Pathology Laboratory: L02, Block S, Department of Pathology, 130 Hip Wo Street, Kwun Tong, Kowloon
九龍觀塘協和街 130 號邵逸夫大樓二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics	**Molecular Genetics (Anatomical Pathology)**		
	Histological and cytological specimen	Amplification of erb-b2 receptor tyrosine kinase 2 (ERBB2, HER2) by Fluorescence in-situ hybridization (FISH)	Manual Slide preparation and staining : Method as documented in OPNISH001 Tissue preparation by PathVysion HER-2 DNA Probe Kit II as documented in OPNISH001 Detection by Automated Bioview Duet System as documented in OPNEQU001
	Liquid based cytological specimens	Human Papilloma Virus (HPV) Detection and Genotyping (including HPV Type 16, 18 and 12 other HPV high risk types) by Real-Time Polymerase Chain Reaction (Target Region: L1 gene)	Nucleic acid extraction, nucleic acid amplification and mutation detection by Cobas 4800 as documented in OPNPCR004
	Formalin fixed paraffin embedded tissues	KRAS mutation by Real-Time Polymerase Chain Reaction (Target Regions: KRAS Gene)	Nucleic acid extraction, nucleic acid amplification and detection by Idylla KRAS Mutation Test Method as documented in OPNPCR005
		NRAS-BRAF mutation by Real-Time Polymerase Chain Reaction (Target Regions: NRAS and BRAF Genes)	Nucleic acid extraction, nucleic acid amplification and detection by Idylla NRAS-BRAF Mutation Test Method as documented in OPNPCR005
	Molecular Genetics (Chemical Pathology)		
	EDTA blood	TPMT and NUDT15 Variants Detection by Conventional PCR and Sanger Sequencing	Nucleic acid extraction as documented in OPNEXT002 and OPNEXT003 Nucleic acid amplification and mutations detection by Sanger sequencing as documented in OPNSEQ001 and OPNSEQ002

Hospital Authority – United Christian Hospital, Department of Pathology
醫院管理局，基督教聯合醫院，病理部
Autopsy Service: B03, Block S, Department of Pathology, 130 Hip Wo Street, Kwun Tong, Kowloon
九龍觀塘協和街 130 號邵逸夫大樓地庫三

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology	**Autopsy** Adult, fetal and perinatal autopsy	Autopsy examination by H&E and special staining	Autopsy method and specimen preparation: Method as documented in OPDAUT001 & 002 Routine staining: Haematoxylin and Eosin stain Special staining as in Histopathology Method as documented in OPAHSP001

Hospital Authority – United Christian Hospital, Department of Pathology
醫院管理局，基督教聯合醫院，病理部
Chemical Pathology Laboratory: L02, Block S, Department of Pathology, 130 Hip Wo Street, Kwun Tong, Kowloon
九龍觀塘協和街 130 號邵逸夫大樓二樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology	**Blood gases and Co-oximetry** Heparinized Whole Blood	pH by Potentiometry (Ion Selective Electrode)	Siemens RAPIDLAB 1265 System
		pCO_2 by Potentiometry (pCO_2-Sensing Electrode)	Siemens RAPIDLAB 1265 System
		pO_2 by Polarography (Oxygen-Sensing Amperometric Electrode)	Siemens RAPIDLAB 1265 System
		Base Excess by Calculation	Siemens RAPIDLAB 1265 System
		Bicarbonate by Calculation	Siemens RAPIDLAB 1265 System
		Co-oximetry by Spectrophotometry	Siemens RAPIDLAB 1265 System
		Ionized Calcium by Potentiometry (Ion Selective Electrode)	Siemens RAPIDLAB 1265 System
		Carboxyhaemoglobin by Co-oximetry	Siemens RAPIDLAB 1265 System
		Methaemoglobin by Co-oximetry	Siemens RAPIDLAB 1265 System
		O_2 Saturation by Calculation	Siemens RAPIDLAB 1265 System

Hospital Authority – United Christian Hospital, Department of Pathology
醫院管理局，基督教聯合醫院，病理部
Chemical Pathology Laboratory: L02, Block S, Department of Pathology, 130 Hip Wo Street, Kwun Tong, Kowloon
九龍觀塘協和街 130 號邵逸夫大樓二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**General Chemistry**		
	Serum	Albumin by Spectrophotometry	Roche Diagnostics cobas 8000 and cobas Pro Albumin assay
	Body fluid or CSF	Albumin by Immunoturbidimetry	Roche Diagnostics cobas 8000 Albumin assay (Tina-quant)
	Serum	Alanine Aminotransferase (ALT) by Spectrophotometry	Roche Diagnostics cobas 8000 and cobas Pro ALTP assay
		Alkaline Phosphatase (ALP) by Spectrophotometry	Roche Diagnostics cobas 8000 and cobas Pro ALP assay
	EDTA plasma	Ammonia by Spectrophotometry	Roche Diagnostics cobas 8000 and cobas Pro Ammonia assay
	Serum or body fluid	Amylase by Spectrophotometry	Roche Diagnostics cobas 8000 and cobas Pro Amylase assay
	Serum	Aspartate Aminotransferase (AST) by Spectrophotometry	Roche Diagnostics cobas 8000 and cobas Pro ASTP assay
	Serum or body fluid	Bilirubin-Total by Spectrophotometry	Roche Diagnostics cobas 8000 and cobas Pro Bilirubin-Total assay
	Serum	Bilirubin-Direct by Spectrophotometry	Roche Diagnostics cobas 8000 and cobas Pro Bilirubin-Direct assay
	Serum or body fluid	Calcium by Spectrophotometry	Roche Diagnostics cobas 8000 and cobas Pro Calcium assay

Hospital Authority – United Christian Hospital, Department of Pathology
醫院管理局，基督教聯合醫院，病理部
Chemical Pathology Laboratory: L02, Block S, Department of Pathology, 130 Hip Wo Street, Kwun Tong, Kowloon
九龍觀塘協和街 130 號邵逸夫大樓二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**General Chemistry** (cont'd) Serum	Chloride by Potentiometry (Ion Selective Electrode)	Roche Diagnostics cobas 8000 and cobas Pro Chloride assay
	Serum or body fluid	Cholesterol by Spectrophotometry	Roche Diagnostics cobas 8000 Cholesterol assay
	Serum	Cholesterol, HDL by Spectrophotometry	Roche Diagnostics cobas 8000 HDL-Cholesterol assay
		Creatine Kinase (CK) by Spectrophotometry	Roche Diagnostics cobas 8000 and cobas Pro CK assay
	Serum or body fluid	Creatinine by Spectrophotometry	Roche Diagnostics cobas 8000 and cobas Pro Creatinine (Jaffe) assay Roche Diagnostics cobas 8000 and cobas Pro Creatinine (Enzymatic) assay
	Serum	Gamma Glutamyltransferase (GGT) by Spectrophotometry	Roche Diagnostics cobas 8000 and cobas Pro GGT assay
	Fluoride plasma, body fluid or CSF	Glucose by Spectrophotometry	Roche Diagnostics cobsa 8000 and cobas Pro Glucose assay
	Serum	Iron by Spectrophotometry	Roche Diagnostics cobas 8000 and cobas Pro Iron assay
	Fluoride plasma, body fluid or CSF	Lactate by Spectrophotometry	Roche Diagnostics cobas 8000 and cobas Pro Lactate assay
	Serum, body fluid or CSF	Lactate Dehydrogenase (LDH) by Spectrophotometry	Roche Diagnostics cobsa 8000 and cobas Pro LDH assay

Hospital Authority – United Christian Hospital, Department of Pathology
醫院管理局，基督教聯合醫院，病理部
Chemical Pathology Laboratory: L02, Block S, Department of Pathology, 130 Hip Wo Street, Kwun Tong, Kowloon
九龍觀塘協和街 130 號邵逸夫大樓二樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**General Chemistry** (cont'd)		
	Serum	Magnesium by Spectrophotometry	Roche Diagnostics cobas 8000 and cobas Pro Magnesium assay
	Serum or body fluid	Phosphate by Spectrophotometry	Roche Diagnostics cobas 8000 and cobas Pro Phosphate assay
		Potassium by Potentiometry (Ion Selective Electrode)	Roche Diagnostics cobas 8000 and cobas Pro Potassium assay
	CSF	Protein by Turbidimetric method	Roche Diagnostics cobas 8000 and cobas Pro U/ CSF Protein assay
	Serum or body fluid (except CSF)	Total Protein by Spectrophotometry	Roche Diagnostics cobas 8000 and cobas Pro Total Protein assay
	Serum or body fluid	Sodium by Potentiometry (Ion Selective Electrode)	Roche Diagnostics cobas 8000 and cobas Pro Sodium assay
	Serum	Total Iron Binding Capacity (TIBC) by Spectrophotometry	Roche Diagnostics cobas 8000 UIBC and Iron assay
	Serum or body fluid	Triglycerides by Spectrophotometry	Roche Diagnostics cobas 8000 and cobas Pro Triglycerides assay
		Urate by Spectrophotometry	Roche Diagnostics cobas 8000 and cobas Pro Urate assay
		Urea by Spectrophotometry	Roche Diagnostics cobas 8000 and cobas Pro Urea assay

Hospital Authority – United Christian Hospital, Department of Pathology
醫院管理局，基督教聯合醫院，病理部
Chemical Pathology Laboratory: L02, Block S, Department of Pathology, 130 Hip Wo Street, Kwun Tong, Kowloon
九龍觀塘協和街 130 號邵逸夫大樓二樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**General Chemistry** (cont'd)		
	EDTA plasma	Troponin T (high-sensitive) by Immunoassay (Chemiluminescent label)	Roche Diagnostics cobas 8000 and cobas Pro Elecsys Troponin-hs assay
	Urine (24 hrs or Spot)	Albumin by Immunoturbidimetry	Roche Diagnostics cobas 8000 Albumin assay (Tina-quant)
		Amylase by Spectrophotometry	Roche Diagnostics cobas 8000 Amylase assay
		Calcium by Spectrophotometry	Roche Diagnostics cobas 8000 Calcium assay
		Chloride by Potentiometry (Ion Selective Electrode)	Roche Diagnostics cobas 8000 Chloride assay
		Creatinine by Spectrophotometry	Roche Diagnostics cobas 8000 Creatinine assay
		Magnesium by Spectrophotometry	Roche Diagnostics cobas 8000 Magnesium assay
		Phosphate by Spectrophotometry	Roche Diagnostics cobas 8000 Phosphate assay
		Potassium by Potentiometry (Ion Selective Electrode)	Roche Diagnostics cobas 8000 Potassium assay
		Protein by Turbidimetric method	Roche Diagnostics cobas 8000 U/ CSF Protein assay

Hospital Authority – United Christian Hospital, Department of Pathology
醫院管理局，基督教聯合醫院，病理部
Chemical Pathology Laboratory: L02, Block S, Department of Pathology, 130 Hip Wo Street, Kwun Tong, Kowloon
九龍觀塘協和街 130 號邵逸夫大樓二樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**General Chemistry** (cont'd)		
	Urine (24 hrs or Spot) (cont'd)	Sodium by Potentiometry (Ion Selective Electrode)	Roche Diagnostics cobas 8000 Sodium assay
		Urate by Spectrophotometry	Roche Diagnostics cobas 8000 Urate assay
		Urea by Spectrophotometry	Roche Diagnostics cobas 8000 Urea assay
	Hormones		
	EDTA plasma	Adrenocorticotrophic Hormone (ACTH) by Immunoassay (Chemiluminescent label)	Roche Diagnostics cobas 8000 Elecsys ACTH assay
	Serum	Cortisol by Immunoassay (Chemiluminescent label)	Roche Diagnostics cobas 8000 Elecsys Cortisol II assay
	24 hour urine	Cortisol, free by Liquid chromatography tandem mass Spectrometry (LC-MS/MS)	Waters Xevo TQ-S micro system Method as documented in OPCLCM010
	Serum	C-peptide by Immunoassay (Chemiluminescent label)	Roche Diagnostics cobas 8000 Elecsys C-peptide assay
		Estradiol (E2) by Immunoassay (Chemiluminescent label)	Roche Diagnostics cobas 8000 Elecsys Estradiol III assay
		Follicular Stimulating Hormone (FSH) by Immunoassay (Chemiluminescent label)	Roche Diagnostics cobas 8000 Elecsys FSH assay
		Growth Hormone by Immunoassay (Chemiluminescent label)	Roche Diagnostics cobas 8000 Elecsys hGH assay

Hospital Authority – United Christian Hospital, Department of Pathology
醫院管理局，基督教聯合醫院，病理部
Chemical Pathology Laboratory: L02, Block S, Department of Pathology, 130 Hip Wo Street, Kwun Tong, Kowloon
九龍觀塘協和街 130 號邵逸夫大樓二樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**Hormones** (cont'd) Serum (cont'd)	Human Chorionic Gonadotropin by Immunoassay (Chemiluminescent label)	Roche Diagnostics cobas 8000 and cobas Pro Elecsys HCG+β assay
		Insulin by Immunoassay (Chemiluminescent label)	Roche Diagnostics cobas 8000 Elecsys Insulin assay
		Luteinizing Hormone (LH) by Immunoassay (Chemiluminescent label)	Roche Diagnostics cobas 8000 Elecsys LH assay
		Thyroxine, Free (FT4) by Immunoassay (Chemiluminescent label)	Roche Diagnostics cobas 8000 Elecsys FT4 II assay
		Triiodothyronine, Free (FT3) by Immunoassay (Chemiluminescent label)	Roche Diagnostics cobas 8000 Elecsys FT3 III assay
	EDTA plasma	Parathyroid Hormone (PTH) by Immunoassay (Chemiluminescent label)	Roche Diagnostics cobas 8000 Elecsys PTH assay
	Serum	Prolactin by Immunoassay (Chemiluminescent label)	Roche Diagnostics cobas 8000 Elecsys Prolactin II assay
		Progesterone by Immunoassay (Chemiluminescent label)	Roche Diagnostics cobas 8000 Elecsys Progesterone III assay
		Testosterone by Immunoassay (Chemiluminescent label)	Roche Diagnostics cobas 8000 Elecsys Testosterone II assay
		Thyroid Stimulating Hormone (TSH) by Immunoassay (Chemiluminescent label)	Roche Diagnostics cobas 8000 Elecsys TSH assay

Hospital Authority – United Christian Hospital, Department of Pathology
醫院管理局，基督教聯合醫院，病理部
Chemical Pathology Laboratory: L02, Block S, Department of Pathology, 130 Hip Wo Street, Kwun Tong, Kowloon
九龍觀塘協和街 130 號邵逸夫大樓二樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**Proteins, quantitative analysis**		
	Serum	Ceruloplasmin by Immunoturbidimetry	Roche Diagnostics cobas 8000 Ceruloplasmin assay
		C-Reactive Protein (CRP) by Immunoturbidimetry	Roche Diagnostics cobas 8000 and cobas Pro CRP assay
		Ferritin by Immunoassay (Chemiluminescent label)	Roche Diagnostics cobas 8000 Elecsys Ferritin assay
	Proteins, qualitative analysis		
	Urine	Bence Jones Protein (BJP) study by Urine Protein Electrophoresis	InterLab G26 Electrophoresis System H.R. Proteins Electrophoresis Kit
	Serum	Paraproteins typing by Immunofixation Electrophoresis (IFE)	InterLab G26 Electrophoresis System Serum and Concentrated Urine/CSF Immunofixation Acid Blue Stain
	Urine	Paraproteins typing by Immunofixation Electrophoresis (IFE)	InterLab G26 Electrophoresis System Serum and Concentrated Urine/CSF Immunofixation Acid Violet Stain
	Serum	Monoclonal immunoglobulins study by Serum Protein Electrophoresis (SPE)	InterLab G26 Electrophoresis System Protein Electrophoresis Kit for Serum Proteins and Concentrated Urines/CSF
	Urine or body fluid except pleural fluid	pH by Potentiometry (Glass Electrode)	inoLab pH7310P pH meter
	Urine	Porphobilinogen, urine (screening) by Qualitative colour reaction	Method as documented in OPCMSC012
		Porphyrins, urine (screening) by UV Fluorescence	Method as documented in OPCMSC013

Hospital Authority – United Christian Hospital, Department of Pathology
醫院管理局，基督教聯合醫院，病理部
Chemical Pathology Laboratory: L02, Block S, Department of Pathology, 130 Hip Wo Street, Kwun Tong, Kowloon
九龍觀塘協和街 130 號邵逸夫大樓二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**Proteins, qualitative analysis** (cont'd)		
	Urine or stool	Reducing Substance by Qualitative colour reaction	Method as documented in OPCMSC014
	Urine	Urine Urobilinogen by Qualitative colour reaction [Diazonium salt]	Medi-Test Urbi test strip
	Special Chemistry		
	Urine	Bilirubin by Qualitative colour reaction	Medi-Test Urbi test strip
	Heparinised plasma	Bilirubin, neonatal by Spectrophotometry	Roche Diagnostics cobas 8000 and cobas Pro Bilirubin-Total assay
	Urine	Myoglobin (screening) by Qualitative colour reaction	Amicon Microcon YM-30 device Siemens Hemastix
	Serum or urine	Osmolality by Freezing point depression	ARKRAY Osmostation OM-6060
	Stool	Occult Blood by Colloidal Gold Immune Colorimetric and turbidimetric method	Alfresa NS-Prime Discrete Clinical Chemistry Analyzer FIT Hemoglobin NS-Prime Test

Hospital Authority – United Christian Hospital, Department of Pathology
醫院管理局，基督教聯合醫院，病理部
Chemical Pathology Laboratory: L02, Block S, Department of Pathology, 130 Hip Wo Street, Kwun Tong, Kowloon
九龍觀塘協和街 130 號邵逸夫大樓二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**Therapeutic Drug Monitoring** Serum	Carbamazepine by Immunoassay (Enzyme-based label)	Roche Diagnostics cobas 8000 Carbamazepine assay
		Digoxin by Immunoassay (Chemiluminescent label)	Roche Diagnostics cobas 8000 and cobas Pro Elecsys Digoxin assay
		Gentamicin by Spectrophotometry	Roche Diagnostics cobas 8000 CEDIA Gentamicin assay
		Lithium by Potentiometry (Ion Selective Electrode)	Roche Diagnostics 9180 Electrolyte Analyzer

Hospital Authority – United Christian Hospital, Department of Pathology
醫院管理局，基督教聯合醫院，病理部
Chemical Pathology Laboratory: L02, Block S, Department of Pathology, 130 Hip Wo Street, Kwun Tong, Kowloon
九龍觀塘協和街 130 號邵逸夫大樓二樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**Therapeutic Drug Monitoring** (cont'd)		
	Serum (cont'd)	Phenobarbital by Kinetic Interaction of Microparticle in a Solution (KIMS)	Roche Diagnostics cobas 8000 Phenobarbital assay
		Phenytoin by Kinetic Interaction of Microparticle in a Solution (KIMS)	Roche Diagnostics cobas 8000 Phenytoin assay
		Theophylline by Kinetic Interaction of Microparticle in a Solution (KIMS)	Roche Diagnostics cobas 8000 and cobas Pro Theophylline assay
		Valproic Acid by Immunoassay (Enzyme-based label)	Roche Diagnostics cobas 8000 Valproic Acid assay
	Toxicology		
	Serum	Cholinesterase by Spectrophotometry	Roche Diagnostics cobas Pro Cholinesterase assay
		Ethanol by Spectrophotometry	Roche Diagnostics cobas 8000 and cobas Pro Ethanol assay
		Paracetamol by Immunoassay (Enzyme-based label)	Roche Diagnostics cobas 8000 and cobas Pro ACET2 assay
		Salicylate by Spectrophotometry	Roche Diagnostics cobas 8000 and cobas Pro Salicylate assay

Hospital Authority – United Christian Hospital, Department of Pathology
醫院管理局，基督教聯合醫院，病理部
Chemical Pathology Laboratory: L02, Block S, Department of Pathology, 130 Hip Wo Street, Kwun Tong, Kowloon
九龍觀塘協和街 130 號邵逸夫大樓二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**Tumour Markers** Serum	Alpha-FetoProtein (AFP) by Immunoassay (Chemiluminescent label)	Roche Diagnostics cobas 8000 Elecsys AFP assay
		CA 125 by Immunoassay (Chemiluminescent label)	Roche Diagnostics cobas 8000 Elecsys CA 125 II assay
		Carbohydrate antigen 19-9 (CA 19-9) by Immunoassay (Chemiluminescent label)	Roche Diagnostics cobas 8000 Elecsys CA 19-9 assay
		Carcinoembryonic antigen (CEA) by Immunoassay (Chemiluminescent label)	Roche Diagnostics cobas 8000 Elecsys CEA assay
		Prostate Specific Antigen, total (PSA) by Immunoassay (Chemiluminescent label)	Roche Diagnostics cobas 8000 Elecsys total PSA assay
		Thyroglobulin by Immunoassay (Chemiluminescent label)	Roche Diagnostics cobas 8000 Elecsys Tg II assay

Hospital Authority – United Christian Hospital, Department of Pathology
醫院管理局，基督教聯合醫院，病理部
Chemical Pathology Laboratory: L02, Block S, Department of Pathology, 130 Hip Wo Street, Kwun Tong, Kowloon
九龍觀塘協和街 130 號邵逸夫大樓二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Immunology	**Immunochemistry** Serum	Complement C3 by Immunoturbidimetry	Roche Diagnostics cobas 8000 C3 assay
		Complement C4 by Immunoturbidimetry	Roche Diagnostics cobas 8000 C4 assay
		Haptoglobin by Immunoturbidimetry	Roche Diagnostics cobas 8000 Haptoglobin assay
		Immunoglobulin A (IgA) by Immunoturbidimetry	Roche Diagnostics cobas 8000 IgA assay
		Immunoglobulin G (IgG) by Immunoturbidimetry	Roche Diagnostics cobas 8000 IgG assay
		Immunoglobulin M (IgM) by Immunoturbidimetry	Roche Diagnostics cobas 8000 IgM assay
	Autoantibodies Serum	Rheumatoid Factor, quantitative by Immunoturbidimetry	Roche Diagnostics cobas 8000 RF assay
		Anti-Thyroglobulin Antibody by Immunoassay (Chemiluminescent label)	Roche Diagnostics cobas 8000 Elecsys Anti-Tg assay
		Anti-Thyroid Peroxidase Antibody by Immunoassay (Chemiluminescent label)	Roche Diagnostics cobas 8000 Elecsys Anti-TPO assay

Hospital Authority – United Christian Hospital, Department of Pathology
醫院管理局，基督教聯合醫院，病理部
Haematology Laboratory: L02, Block S, Department of Pathology, 130 Hip Wo Street, Kwun Tong, Kowloon
九龍觀塘協和街 130 號邵逸夫大樓二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology	**General Haematology** EDTA whole blood	Complete blood count including - Haemoglobin - Haematocrit - Leucocyte count (WBC count) - Mean corpuscular volume (MCV) - Mean corpuscular haemoglobin concentration (MCHC) - Mean corpuscular haemoglobin (MCH) - Platelet count - Red cell count - Red cell distribution width (RDW) - Mean Platelet Volume (MPV)	 Sysmex XN-9100 Sysmex XN-2000 Beckman Coulter DxH900
		Erythrocyte Sedimentation Rate (ESR) by automated method	Vesmatic 30
		Haemoglobin H inclusion bodies by Brilliant Cresyl Blue stain	Method as documented in OPHROU010
		Leucocyte differential count, automated	Sysmex XN-9100
		Malaria parasite examination by Thick and thin films	Smear preparation and Giemsa staining (pH7.2) as documented in OPHROU007
		Reticulocyte Count, automated	Sysmex XN-9100
		Peripheral blood smear examination by May Grunwald-Giemsa stain	Sysmex SP 50 slide maker stainer Method as documented in OPHROU069

Hospital Authority – United Christian Hospital, Department of Pathology
醫院管理局，基督教聯合醫院，病理部
Haematology Laboratory: L02, Block S, Department of Pathology, 130 Hip Wo Street, Kwun Tong, Kowloon
九龍觀塘協和街 130 號邵逸夫大樓二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology (cont'd)	**Coagulation** Citrate blood	Coagulation studies including - Prothrombin Time (PT) - Activated partial thromboplastin time (APTT) - Fibrinogen	 Sysmex CS5100 Sysmex CS2100
		D-Dimer by Quantitative determination by Immunoassay (Enzyme based label)	 BioMerieux Mini Vidas BioMerieuxVidas 3
		Factor VIII assay	Sysmex CS5100
		Factor IX assay	Sysmex CS5100
		Lupus Anti-coagulant detection by Dilute Russell's Viper Venom Time (DRVVT)	 Sysmex CS5100
		Mixing Study	Sysmex CS5100
		Thrombin Time, automated	Sysmex CS5100 Sysmex CS2100
	Special Haematology EDTA whole blood	Haemoglobin A2 and F quantitation by High performance liquid chromatography	 BioRad Variant II HPLC analyzer
		Haemoglobin Electrophoresis	Method as documented in OPHSPE031 & OPHSPE032
		Haemoglobin A1c by High performance liquid chromatography	 BioRad Variant Turbo
	Serum	Monospot test	Meridian Bioscience Monospot Latex Test

Hospital Authority – United Christian Hospital, Department of Pathology
醫院管理局，基督教聯合醫院，病理部
Haematology Laboratory: L02, Block S, Department of Pathology, 130 Hip Wo Street, Kwun Tong, Kowloon
九龍觀塘協和街 130 號邵逸夫大樓二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology (cont'd)	**Special Haematology** (cont'd)		
	EDTA marrow blood aspirate, clot, trephine	Bone Marrow Examination	Method as documented in OPHSPE010 Specimen preparation and routine staining: Method as documented in OPHSPE001, OPHSPE010 and OPHSPE015 Marrow smear by - May Grunwald – Giemsa stain - Perl's Prussian Blue stain Peripheral blood smear by - May Grunwald – Giemsa stain Special stains: Method as documented in: OPHSPE011, OPHSPE013, OPHSPE014, OPHSPE016, OPSPE017 - Acid Phosphatase stain - Specific esterase of Naphthol AS-D Chloroacetate Esterase - Myeloperoxidase stain - Non-specific Naphthyl Acetate Esterase
	EDTA whole blood or marrow blood	Immunophenotyping for haematological disorder by Flow Cytometry	Beckman Coulter Navios Flow Cytometer
		Lymphocyte subsets for haematological disorder by Flow Cytometry	Beckman Coulter Navios Flow Cytometer

Hospital Authority – United Christian Hospital, Department of Pathology
醫院管理局，基督教聯合醫院，病理部
Haematology Laboratory: L02, Block S, Department of Pathology, 130 Hip Wo Street, Kwun Tong, Kowloon
九龍觀塘協和街 130 號邵逸夫大樓二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics	**Molecular Genetics (Haematology)** EDTA whole blood or marrow aspirate	JAK2 V617F Kinase mutation by Allete-specific Polymerase Chain Reaction (AS-PCR)	Nucleic acid extraction as documented in OPNEXT002 Nucleic acid amplification and detection as documented in OPNPCR006
		Alpha Globin Genotyping for SEA, 3.7, 4.2 deletion by Multiplex Polymerase Chain Reaction	Nucleic acid extraction as documented in OPNEXT002 Nucleic acid amplification and detection as documented in OPNPCR007

Hospital Authority – United Christian Hospital, Department of Pathology
醫院管理局，基督教聯合醫院，病理部
Haematology Laboratory: L02, Block S, Department of Pathology, 130 Hip Wo Street, Kwun Tong, Kowloon
九龍觀塘協和街 130 號邵逸夫大樓二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Immunology	**Autoantibodies** Serum	Anti-nuclear antibody by Immunoassay (Enzyme-based label) Indirect Immunofluorescence Test	 BioRad Evolis 4P automated EIA analyser BioRad ANA Screening Test kit BioRad Kallestad™ Hep 2 cell ANA kit

Hospital Authority – United Christian Hospital, Department of Pathology
醫院管理局，基督教聯合醫院，病理部
Blood Bank: L02, Block S, Department of Pathology, 130 Hip Wo Street, Kwun Tong, Kowloon
九龍觀塘協和街 130 號邵逸夫大樓二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology	**Blood Bank – Antenatal screen**		
	Clotted blood or EDTA blood	ABO and Rh(D) typing plus antibody investigation if required by	
		Red cell agglutination	Method as documented in OPBIMH341
		Titration of Antibody by	
		NICE Method	Method as documented in OPBIMH403
	Blood Bank – General		
	Clotted blood or EDTA blood	ABO and Rh (D) typing by	
		Red cell agglutination	Ortho Vision Max Manual method as documented in OPBTSC241
		Weak D Testing by	
		Red cell agglutination	Method as documented in OPBTSC245
		Antibody screening by	
		Using CAT	Method as documented in OPBTSC261
		Saline Indirect Antiglobulin Test	Method as documented in OPBTSC262
		Indirect Antiglobulin Test (IAT)	Ortho Vision Max
		Pretransfusion testing by	
		- Pretransfusion testing for red cell transfusion and component requests	Method as documented in OPBTSC223 and OPBTSC225
		- Pretransfusion testing for infants < 4 months of age	Method as documented in OPBTSC341
		Red cell phenotyping by	
		Direct agglutination	Method as documented in OPBIMH241 and OPBIMH262
		Indirect Antiglobulin Test (IAT)	Method as documented in OPBIMH241
		Crossmatch by	
		Electronic crossmatch	Method as documented in OPBTSC284
		Immediate spin	Method as documented in OPBTSC282
		Saline Indirect antiglobulin test	Method as documented in OPBTSC262
		Prewarmed technique using IAT	Ortho Vision Max using method as documented in OPBIMH262

Hospital Authority – United Christian Hospital, Department of Pathology
醫院管理局，基督教聯合醫院，病理部
Blood Bank: L02, Block S, Department of Pathology, 130 Hip Wo Street, Kwun Tong, Kowloon
九龍觀塘協和街 130 號邵逸夫大樓二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology (cont'd)	**Blood Bank – Immunohaematology**		
	EDTA blood	Direct Antiglobulin Test (DAT) by Red cell agglutination	 Method as documented in OPBTSC222
	Blood Bank – Special		
	Clotted blood or EDTA blood	Antibody identification by Polyethylene Glycol-IAT Lewis/P1 blood group substance neutralization test Indirect Antiglobulin Test (IAT)	 Method as documented in OPBIMH261 and OPBIMH281 Method as documented in OPBIMH261 and OPBIMH282 Ortho Vision Max
	EDTA blood	Antibody elution and identification by Chloroquine elution Acid Glycine/EDTA elution by ELU KIT PLUS elution system	 Method as documented in OPBIMH301 Method as documented in OPBIMH306
	Clotted blood or EDTA blood	Adsorption of Autoantibodies by ZZAP Technique	 Method as documented in OPBIMH312
	EDTA blood	Investigation of ABO Blood Group Anomaly	Method as documented in OPBTSC242
	Clotted blood or EDTA blood	Transfusion Reaction	Method as documented in OPBTSC441

Hospital Authority – United Christian Hospital, Department of Pathology
醫院管理局，基督教聯合醫院，病理部
Microbiology Laboratory: L02, Block S, Department of Pathology, 130 Hip Wo Street, Kwun Tong, Kowloon
九龍觀塘協和街 130 號邵逸夫大樓二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection	**Bacteriology – Culture and Sensitivity Tests**		
	Enteric samples (including stool and rectal swab)	Culture and antimicrobial susceptibility tests for pathogens by Aerobic and microaerophilic culture	Culture: Method as documented in OPMSTO001 Identification of isolates: Conventional method as documented in OPMIDE001 MALDI-TOF Mass Spectrometry as documented in OPMIE006 Antimicrobial susceptibility tests: Method as documented in OPMAST001
	Urine	Urine formed elements by Microscopic examination with fixed volume in microtitre plate	Method as documented in OPMURI001
		Culture and antimicrobial susceptibility tests for urinary pathogens by Standard loop method and aerobic culture	Culture: Method as documented in OPMURI001 Identification of isolates: Conventional method as documented in OPMIDE001 MALDI-TOF Mass Spectrometry as documented in OPMIE006 Antimicrobial susceptibility tests: Method as documented in OPMAST001
	Upper respiratory tract samples (including throat swab, nasal swab etc.)	Culture and antimicrobial susceptibility tests for upper respiratory tract pathogens by Aerobic, CO2 and anaerobic culture	Culture: Method as documented in OPMSPU001 Identification of isolates: Conventional method as documented in OPMIDE001 MALDI-TOF Mass Spectrometry as documented in OPMIE006 Antimicrobial susceptibility tests: Method as documented in OPMAST001

Hospital Authority – United Christian Hospital, Department of Pathology
醫院管理局，基督教聯合醫院，病理部
Microbiology Laboratory: L02, Block S, Department of Pathology, 130 Hip Wo Street, Kwun Tong, Kowloon
九龍觀塘協和街 130 號邵逸夫大樓二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Bacteriology – Culture and Sensitivity Tests** (cont'd) Lower respiratory tract samples (including sputum, bronchial aspirate, tracheal aspirate etc.)	Microscopy for cell morphology and microorganisms by Gram Stain	Method as documented in OPMMIS001A1
		Culture and antimicrobial susceptibility tests lower respiratory tract pathogens by Aerobic and CO_2 culture	Culture: Method as documented in OPMSPU001 Identification of isolates: Conventional method as documented in OPMIDE001 MALDI-TOF Mass Spectrometry as documented in OPMIE006 Antimicrobial susceptibility tests: Method as documented in OPMAST001
	Brochioalveolar lavage (BAL) and protected bronchial brush	Microscopy for cell morphology and microorganisms by Gram Stain	Method as documented in OPMMIS001A1
		Culture (semi-quantitative) and antimicrobial susceptibility tests for pathogens by Aerobic, and CO_2 culture	Culture: Method as documented in OPMSPU001 Identification of isolates: Conventional method as documented in OPMIDE001 MALDI-TOF Mass Spectrometry as documented in OPMIE006 Antimicrobial susceptibility tests: Method as documented in OPMAST001
	Genital samples	Microscopy for cell morphology and microorganisms by Gram Stain	Method as documented in OPMMIS001A1
		Culture and antimicrobial susceptibility test for genital pathogens by CO_2 culture	Culture: Method as documented in OPMMIS004 Identification of isolates: Conventional method as documented in OPMIDE001 MALDI-TOF Mass Spectrometry as documented in OPMIE006 Antimicrobial susceptibility tests: Method as documented in OPMAST001

Hospital Authority – United Christian Hospital, Department of Pathology
醫院管理局，基督教聯合醫院，病理部
Microbiology Laboratory: L02, Block S, Department of Pathology, 130 Hip Wo Street, Kwun Tong, Kowloon
九龍觀塘協和街 130 號邵逸夫大樓二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Bacteriology - Culture and Sensitivity Tests** (cont'd) Miscellaneous samples (including swab, pus, tissue, body fluids etc.)	Microscopy for cell morphology and microorganisms by Gram Stain	Method as documented in OPMMIS001A1
		Crystal (joint fluid only) by Wet smear	Method as documented in OPMMIS001A3
		Amoeba (liver abscess only) by Wet smear	Method as documented in OPMMIS001
		Culture and antimicrobial susceptibility tests for pathogens by Aerobic,$CO_2$and anaerobic culture	Culture: Method as documented in OPMMIS001 Identification of isolates: Conventional method as documented in OPMIDE001 MALDI-TOF Mass Spectrometry as documented in OPMIE006 Antimicrobial susceptibility tests: Method as documented in OPMAST001
	Eye swab, corneal scrapping and joint fluid	Microscopy for Microorganisms by Gram Stain	Method as documented in OPMCSF002 (for Emergency Lab)
	Blood	Culture and antimicrobial susceptibility tests for pathogens by Aerobic, CO_2 and anaerobic broth culture	Culture: Method as documented in OPMBLO001 and 002 using BD BACTEC FX Identification of isolates: Conventional method as documented in OPMIDE001 MALDI-TOF Mass Spectrometry as documented in OPMIE006 Antimicrobial susceptibility tests: Method as documented in OPMAST001
	All specimens for bacterial culture and susceptibility test	Antimicrobial susceptibility test - Zone diameter measurement by Automation	BIOMIC V3 Method as documented in OPMEQU020

Hospital Authority – United Christian Hospital, Department of Pathology
醫院管理局，基督教聯合醫院，病理部
Microbiology Laboratory: L02, Block S, Department of Pathology, 130 Hip Wo Street, Kwun Tong, Kowloon
九龍觀塘協和街 130 號邵逸夫大樓二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Bacteriology - Culture and Sensitivity Tests** (cont'd)		
	CSF	Microscopy for	Method as documented in
		Cell count by Counting chamber	OPMCSF001
		Microorganisms by Gram Stain	OPMMIS001A1
		Encapsulated yeast by India Ink Stain	OPMCSF001
		Culture and antimicrobial susceptibility tests for pathogens by	
		Aerobic, CO_2 and anaerobic culture	Culture: Method as documented in OPMCSF001 Identification of isolates: Method as documented in Conventional method as documented in OPMIDE001 MALDI-TOF Mass Spectrometry as documented in OPMIE006 Antimicrobial susceptibility tests: Method as documented in OPMAST001
		Antigen detection (*Streptococcus* Group B; *Haemophilus* influenzae type b; *Streptococcus pneumoniae*; *Neisseria meningitidis* Group A, B, C, Y, W135; E. coli K1) by	
		Latex agglutination	Wellcogen Bacterial Antigen detection kit
		Antigen detection of *Cryptococcus neoformans* by	
		Latex agglutination	Remel Cryptococcus Antigen Latex kit
	Bacteriology – Serology		
	Serum	*Brucella* antibody by	
		agglutination method	Method as documented in OPMSER003
		Rickettsial antibody by	
		agglutination method (Weil Felix test)	Method as documented in OPMSER003
		Salmonella antibody by	
		agglutination method (Widal test)	Method as documented in OPMSER003
		Detection of extracellular antigens of Group A *Streptococcus* by	
		Rapid slide test	Dade Behring RapiTex ASL

Hospital Authority – United Christian Hospital, Department of Pathology
醫院管理局，基督教聯合醫院，病理部
Microbiology Laboratory: L02, Block S, Department of Pathology, 130 Hip Wo Street, Kwun Tong, Kowloon
九龍觀塘協和街 130 號邵逸夫大樓二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Mycobacteriology – Microscopy**		
	CSF and miscellaneous samples	Microscopy for acid fast bacilli (AFB) by Auramine O fluorescent stain	Method as documented in OPMMTB001
	Mycology – Culture, ID and Serology		
	All samples	Culture for fungi by Conventional method	Method as documented in OPMFUN001, 002 and 003
	Mycology – Microscopy		
	All samples	Microscopy for fungal filaments and yeasts by KOH with Calcofluor White procedure	Method as documented in OPMFUN001
		Microscopy for fungal filaments and yeasts by Gram Stain	Method as documented in OPMFUN001
	Parasitology		
	Stool	Microscopy for enteric parasites by Conventional method	Method as documented in OPMPAR001
		Microscopy for Amoeba by Direct smear and concentration method	Method as documented in OPMPAR001, OPMPAR001A1
		Microscopy for fecal protozoa by Iron Haematoxylin stain	Method as documented in OPMPAR002
		Gomori's Trichome stain	Method as documented in OPMPAR003
		Microscopy for Coccidia and Cyanobacterium - Like Bodies (e.g. Cryptosporidium and Isospora) by Modified Kinyoun's acid fast stain	Method as documented in OPMPAR004

Hospital Authority – United Christian Hospital, Department of Pathology
醫院管理局，基督教聯合醫院，病理部
Microbiology Laboratory: L02, Block S, Department of Pathology, 130 Hip Wo Street, Kwun Tong, Kowloon
九龍觀塘協和街 130 號邵逸夫大樓二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Syphilis serology**		
	Serum	Reagin antibody in response to Treponemal infection by	
		Rapid Plasma Reagin (RPR)	BioMerieux RPR test kit BD Macro-Vue RPR Card test
		Treponema pallidum antibody by	
		- *Treponemal pallidum* Passive Particle Agglutination test (TPPA)	Fujirebio Inc. *Treponema palladium* Particle Agglutination (TPPA) test kit
		- Electrochemiluminescence immunoassay	Roche cobas e801 analyser Elecsys Syphilis assay
	Virology – Serology		
	Serum	Varicella zoster virus antibody (IgG) by Immunoassay (Enzyme-based label)	Vidas Automated Immunoassay system
		Cytomegalovirus antibody (IgG) by Electrochemiluminescence immunoassay	Roche cobas e801 analyser Elecsys CMV IgG assay
		Hepatitis A virus antibody, IgM by Electrochemiluminescence immunoassay	Roche cobas e801 analyser Elecsys Anti-HAV IgM assay
		Hepatitis B virus antibody anti-HBs (Quantitative) by Electrochemiluminescence immunoassay	Roche cobas e801 analyser Elecsys Anti-HBs II assay
		anti-HBc (Total) by Electrochemiluminescence immunoassay	Roche cobas e801 analyser Elecsys Anti-HBc II assay
		anti-HBc (IgM) by Electrochemiluminescence immunoassay	Roche cobas e801 analyser Elecsys Anti-HBc IgM assay

Hospital Authority – United Christian Hospital, Department of Pathology
醫院管理局，基督教聯合醫院，病理部
Microbiology Laboratory: L02, Block S, Department of Pathology, 130 Hip Wo Street, Kwun Tong, Kowloon
九龍觀塘協和街 130 號邵逸夫大樓二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Virology – Serology (cont'd)** Serum (cont'd)	Hepatitis B virus antibody (cont'd) anti-HBe by Electrochemiluminescence immunoassay	Roche cobas e801 analyser Elecsys Anti-HBe assay
		Hepatitis B virus antigen HBsAg by Electrochemiluminescence immunoassay	Roche cobas e801 analyser Elecsys HBsAg II assay
		HBeAg by Electrochemiluminescence immunoassay	Roche cobas e801 analyser Elecsys HBeAg assay
		Hepatitis C virus antibody by Electrochemiluminescence immunoassay	Roche cobas e801 analyser Elecsys Anti-HCV II assay
		Human immunodeficiency virus I & II antibody and p24 antigen by Electrochemiluminescence immunoassay	Roche cobas e801 analyser Elecsys HIV Duo assay
		Rubella virus antibody (IgG) by Electrochemiluminescence immunoassay	Roche cobas e801 analyser Elecsys Rubella (IgG) assay
		SARS-CoV-2 Anti-RBD by Electrochemiluminescence immunoassay	Roche cobas e801 analyser Elecsys Anti-SARS-CoV-2-2s (RBD) assay
		SARS-CoV-2 Anti-NP by Electrochemiluminescence immunoassay	Roche cobas e801 analyser Elecsys Anti-SARS-CoV-2-2 (NP) assay
		Procalcitonin by Electrochemiluminescence immunoassay	Roche cobas e801 analyser Elecsys PCT assay

Hospital Authority – United Christian Hospital, Department of Pathology
醫院管理局，基督教聯合醫院，病理部
Microbiology Laboratory: L02, Block S, Department of Pathology, 130 Hip Wo Street, Kwun Tong, Kowloon
九龍觀塘協和街 130 號邵逸夫大樓二樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics	**Molecular Genetics (Microbiology)** Nasopharyngeal aspirates, nasopharyngeal swabs, throat and nasal combined swab	*Chlamydiophilia pneumoniae* – Detection by Real-Time Polymerase Chain Reaction (PCR), qualitative (Target region: J38 genomic region)	Nucleic acid extraction by bioMérieux NucliSENS easyMAG Nucleic acid amplification and detection: Method as documented in OPMMOL013
		Influenza A virus – Detection by Reverse Transcription and Real time Polymerase Chain Reaction (PCR), qualitative (Target region: M gene)	Nucleic acid extraction by bioMérieux NucliSENS easyMAG Qiagen QIAamp Viral RNA Mini Kit Nucleic acid amplification and detection: Method as documented in OPMMOL03 (by 1-step PCR)
		Influenza A virus (H1 subtype) – Detection by Reverse Transcription and Real time Polymerase Chain Reaction (PCR), qualitative (Target region: HA gene)	Nucleic acid extraction by bioMérieux NucliSENS easyMAG Qiagen QIAamp Viral RNA Mini Kit Nucleic acid amplification and detection: Method as documented in OPMMOL05 (by 1-step PCR)
		Influenza A virus (H3 subtype) – Detection by Reverse Transcription and Real time Polymerase Chain Reaction (PCR), qualitative (Target region: HA gene)	Nucleic acid extraction by bioMérieux NucliSENS easyMAG Qiagen QIAamp Viral RNA Mini Kit Nucleic acid amplification and detection: Method as documented in OPMMOL04 (by 1-step PCR)
		Influenza A virus (H5 subtype) – Detection by Reverse Transcription and Real time Polymerase Chain Reaction (PCR), qualitative (Target region: HA gene)	Nucleic acid extraction by bioMérieux NucliSENS easyMAG Qiagen QIAamp Viral RNA Mini Kit Nucleic acid amplification and detection: Method as documented in OPMMOL11(by 1-step PCR)

Hospital Authority – United Christian Hospital, Department of Pathology
醫院管理局，基督教聯合醫院，病理部
Microbiology Laboratory: L02, Block S, Department of Pathology, 130 Hip Wo Street, Kwun Tong, Kowloon
九龍觀塘協和街 130 號邵逸夫大樓二樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics (cont'd)	**Molecular Genetics (Microbiology)** (cont'd) Nasopharyngeal aspirates, nasopharyngeal swabs, throat and nasal combined swab (cont'd)	Influenza A virus (H7 subtype) – Detection by Reverse Transcription and Real time Polymerase Chain Reaction (PCR), Qualitative (Target region: HA gene)	Nucleic acid extraction by bioMérieuxNucliSENSeasyMAG QiagenQIAamp Viral RNA Mini Kit Nucleic acid amplification and detection: Method as documented in OPMMOL024(by 1-step PCR)
		Influenza B virus – Detection by Reverse Transcription and Real time Polymerase Chain Reaction (PCR), qualitative (Target region: HA gene)	Nucleic acid extraction by bioMérieux NucliSENS easyMAG Nucleic acid amplification and detection: Method as documented in OPMMOL012 (1-step PCR)
		Mycoplasma pneumoniae – Detection by Real-Time Polymerase Chain Reaction (PCR), qualitative (Target region: P1 gene)	Nucleic acid extraction by bioMérieux NucliSENS easyMAG Nucleic acid amplification and detection: Method as documented in OPMMOL010

Hospital Authority – United Christian Hospital, Department of Pathology
醫院管理局，基督教聯合醫院，病理部
Microbiology Laboratory: L02, Block S, Department of Pathology, 130 Hip Wo Street, Kwun Tong, Kowloon
九龍觀塘協和街 130 號邵逸夫大樓二樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics (cont'd)	**Molecular Genetics (Microbiology)** (cont'd)		
	Plasma	Hepatitis B Virus (HBV) – Detection by Real-Time Polymerase Chain Reaction (PCR), quantitative (Target region: pre-C/Core gene)	Nucleic acid extraction, amplification and detection by Roche Cobas 4800 System HBV quantitative assay
	Serum	Hepatitis C Virus (HCV) and genotyping – Detection by Real-Time Polymerase Chain Reaction (PCR), quantitative (Target region: 5' untranslated region (5' UTR), core region and NS5B gene)	Nucleic acid extraction, amplification and detection by Roche Cobas 4800 System HCV quantitative assay and Genotype
	Stool	Toxigenic *Clostridium difficile* – Detection by Real-Time Polymerase Chain Reaction (PCR), qualitative (Target region: genes for Toxin B (*tcdB*), Binary Toxin (*cdt*), and *tcdC* deletion nt 117 (*tcdC*Δ117))	Nucleic acid extraction, amplification and detection: Method as documented in OPMMOL035
		Norovirus / Rotavirus / Astrovirus / Adenovirus / Sapovirus – Detection by Real-Time Polymerase Chain Reaction (PCR), qualitative (Target region: proprietary)	Nucleic acid extraction by MagNA Pure 96 automated nucleic acid extraction system Nucleic acid amplification and detection: Method as documented in OPMMOL029 using Bio-Rad CFX96 Real-time Detection PCR system
	Nasal swabs	Methicillin-resistant *Staphylococcus aureus* (MRSA) – Detection by Real-Time Polymerase Chain Reaction (PCR), qualitative (Target region: *mecA* and *mecC* genes, and staphylococcal cassette chromosome *mec (SCCmec)* inserted into the SA chromosome at the *attB* site)	Nucleic acid extraction, amplification and detection: Method as documented in OPMMOL036

Hospital Authority – United Christian Hospital, Department of Pathology
醫院管理局，基督教聯合醫院，病理部
Microbiology Laboratory: L02, Block S, Department of Pathology, 130 Hip Wo Street, Kwun Tong, Kowloon
九龍觀塘協和街 130 號邵逸夫大樓二樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics (cont'd)	**Molecular Genetics (Microbiology)** (cont'd)		
	Urine, genital and eye swab	*Chlamydia trachomatis* – Detection by Real-Time Polymerase Chain Reaction (PCR), qualitative (Target region: highly stable region in genomic DNA including Swedish CT variant)	GeneXpert CT/NG
		Neisseria gonorrhoeae – Detection by Real-Time Polymerase Chain Reaction (PCR), qualitative (Target region: two independent and unique regions in genomic DNA)	GeneXpert CT/NG
	CSF	Multiple meningitis and encephalitis pathogens detection and identification by multiplexed nucleic acid test, qualitative - *Escherichia coli* K1 - *Haemophilus influenzae* - *Listeria monocytogenes* - *Neisseria meningitidis* - *Streptococcus agalactiae* - *Streptococcus pneumoniae* - Cytomegalovirus (CMV) - Enterovirus (EV) - Herpes simplex virus 1 (HSV-1) - Herpes simplex virus 2 (HSV-2) - Human herpesvirus 6 (HHV-6) - Human parechovirus (HPeV) - Varicella zoster virus (VZV) - *Cryptococcus neoformans/gattii* (Target regions: proprietary)	The BioFire FilmArray Meningitis/Encephalitis (ME) Panel Method as documented in OPMMOL040

Hospital Authority – United Christian Hospital, Department of Pathology
醫院管理局，基督教聯合醫院，病理部
Microbiology Laboratory: L02, Block S, Department of Pathology, 130 Hip Wo Street, Kwun Tong, Kowloon
九龍觀塘協和街 130 號邵逸夫大樓二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics (cont'd)	**Molecular Genetics (Microbiology)** (cont'd) Upper respiratory samples	Multiple respiratory pathogens - Detection and identification by Multiplex Polymerase Chain Reaction, qualitative (Viruses) - Adenovirus - Coronavirus 229E - Coronavirus HKU1 - Coronavirus NL63 - Coronavirus OC43 - Middle East Respiratory Syndrome Coronavirus (MERS-CoV) - SARS-CoV-2 - Human metapneumovirus - Human rhinovirus /enterovirus - Influenza A virus - Influenza A virus / H1 - Influenza A virus / H3 - Influenza A virus / H1-2009 - Influenza B virus - Parainfluenza virus 1 - Parainfluenza virus 2 - Parainfluenza virus 3 - Parainfluenza virus 4 - Respiratory syncytial virus (Bacteria) - *Bordetella parapertussis* - *Bordetella pertussis* - *Chlamydia pneumoniae* - *Mycoplasma pneumoniae* (Target regions: proprietary)	The BioFire FilmArray Respiratory 2.1 Plus (RP2.1 Plus) Panel Method as documented in OPMMOL039

Hospital Authority – United Christian Hospital, Department of Pathology
醫院管理局，基督教聯合醫院，病理部
Microbiology Laboratory: L02, Block S, Department of Pathology, 130 Hip Wo Street, Kwun Tong, Kowloon
九龍觀塘協和街 130 號邵逸夫大樓二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics (cont'd)	**Molecular Genetics (Microbiology)** (cont'd) Respiratory samples (cont'd)	Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) – Detection by Multiplex Real-Time Polymerase Chain Reaction (PCR), qualitative (Target region: E gene, N2 gene)	XpertXpess SARS-CoV-2 Assay Methods as documented in OPMMOL041
		(Target region: ORF 1 ab gene and ORF 8 gene)	BioFire COVID-19 Test v1.0 Method as documented in OPMMOL042
		(Target region: E gene, N gene)	LightMix Kit SARS-CoV-2 E+N UBC Assay Method as documented in OPMMOL043
		(Target region: ORF 1ab gene, E gene)	Roche Cobas 6800 System Cobas SARS-CoV-2 Assay Method as documented in OPMMOL046
		Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2), Influenza A Virus, Influenza B Virus and Respiratory Syncytial Virus (RSV) – detection by Reverse Transcription and Real-Time Polymerase Chain Reaction, qualitative (Target Region: SARS-CoV-2: E gene, N2 and RdRP gene, Influenza A virus: M, PB2 and PA gene, Influenza B virus: M and NS gene, RSV: RSV A and RSV B nucleocapsid gene)	Xpert Xpress CoV-2/Flu/RSV *plus* Assay Method as documented in OPMMOL050 and OPMMOL051
		Mycobacterium tuberculosis complex and rifampin resistance – Detection by Real-Time Polymerase Chain Reaction (PCR), qualitative (Target region: IS1081, IS6110 and *rpoB* gene)	Xpert MTB/RIF Ultra Assay Method as documented in OPMMOL038

Quality Healthcare Medical Services Limited – Alpha Medical Diagnostic Centre

卓健醫療服務有限公司 - 進領醫學診斷中心

ADDRESS : Room 3805B-8 & 3815, 38/F, Skyline Tower, 39 Wang Kwong Road, Kowloon Bay, Kowloon
地址 九龍九龍灣宏光道 39 號宏天廣場 38 樓 3805B-8 及 3815 室

ENQUIRY : Ms Ruby CHENG Siu-yan
查詢 鄭筱欣女士

TELEPHONE : 2389 9218
電話

FAX : 2389 7822
傳真

E-MAIL : ruby.cheng1@qhms.com
電郵

WEBSITE ADDRESS : http://www.qhms.com
網址

CLIENTELE : Private clinics
服務對象 私營診所

Quality Healthcare Medical Services Limited - Alpha Medical Diagnostic Centre

卓健醫療服務有限公司 – 進領醫學診斷中心

ADDRESS
地址 : Room 3805B-8 & 3815, 38/F, Skyline Tower, 39 Wang Kwong Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣宏光道 39 號宏天廣場 38 樓 3805B-8 及 3815 室

Collection Centres 樣本收集中心:

1. Unit 1605-09, 16/F, Admiralty Centre Tower 1, 18 Harcourt Road, Hong Kong
香港夏慤道18 號金鐘海富中心第1 期16 樓1605-09 室
2. Suite 2405-06, 24/F World Trade Centre, 280 Gloucester Road, Causeway Bay, Hong Kong
香港銅鑼灣告士打道280 號世界貿易中心24 樓2405-06 室
3. 8/F, Wai Fung Plaza, 664 Nathan Rd, Mongkok, Kowloon
九龍旺角彌敦道 664 號惠豐中心 8 樓
4. Unit 1220-30, 12/F, Pioneer Centre, 750 Nathan Rd, Mongkok, Kowloon
九龍旺角彌敦道 750 號始創中心 12 樓 1220-30 室
5. Rm 501-507, 5/F, Prince's Building, 10 Chater Road, Central, Hong Kong
香港中環遮打道 10 號太子大廈 5 樓 501-507 室
6. Rm 601-605 and 608-613, 6/F, HK Pacific Centre, 28 Hankow Road, Tsim Sha Tsui, Kowloon
九龍尖沙咀漢口道 28 號 亞太中心 6 樓 601-605, 608-613 室
7. Rm 905-907, 9/F, New Town Tower, 10-18 Pak Hok Ting Street, Shatin, New Territories
新界沙田白鶴汀街 10-18 號新城市商業大廈 9 樓 905-907 室
8. Rm 1005-6 , 10/F, New Town Tower, 10-18 Pak Hok Ting Street, Shatin, New Territories
新界沙田白鶴汀街 10-18 號新城市商業大廈 10 樓 1005-6 室
9. Block I, G/F, Telford Gardens, Kowloon Bay, Kowloon
九龍九龍灣德福花園 I 座地下
10. Suite 304, Oxford House, Taikoo Place, 979 King's Road, Quarry Bay, Hong Kong
香港鰂魚涌英皇道 979 號太古坊濠豐大廈 304 室
11. Shop Unit 308D, Level 3, Maritime Square, 33 Tsing King Road, Tsing Yi, New Territories
新界青衣青敬路 33 號青衣城 3 樓 308D 號舖
12. 14/F, Entertainment Building, 30 Queen's Road, Central, Hong Kong
香港中環皇后大道中 30 號娛樂行 14 樓

LABORATORY DIRECTOR
化驗所主管 : **Biomedical Scientist Director 醫務科學主管:**
Ms Ruby CHENG Siu-yan
鄭筱欣女士
MSc, BSc, Registered MLT1

ACCREDITED TEST CATEGORY
認可測試類別 : **Medical Testing 醫務化驗**

Chemical Pathology 化學病理學
Clinical Microbiology and Infection 臨床微生物學及傳染病
Haematology 血液學
Immunology 免疫學
Medical Genetics (Molecular Genetics) 醫學遺傳學（分子遺傳學）

Quality Healthcare Medical Services Ltd.- Alpha Medical Diagnostic Centre
卓健醫療服務有限公司 – 進領醫學診斷中心

Room 3805B-8 & 3815, 38/F, Skyline Tower, 39 Wang Kwong Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣宏光道 39 號宏天廣場 38 樓 3805B-8 及 3815 室

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology	**Drug of Abuse Testing** Urine	Amphetamine, qualitative by One-step lateral flow chromatography	Wondfo® One Step Multi-Drug Urine Test Cassette
		Barbiturates, qualitative by One-step lateral flow chromatography	Wondfo® One Step Multi-Drug Urine Test Cassette
		Benzodiazepines, qualitative by One-step lateral flow chromatography	Wondfo® One Step Multi-Drug Urine Test Cassette
		Cannabinoids (THC), qualitative by One-step lateral flow chromatography	Wondfo® One Step Multi-Drug Urine Test Cassette
		Cocaine, qualitative by One-step lateral flow chromatography	Wondfo® One Step Multi-Drug Urine Test Cassette
		MDMA, Morphine, qualitative by One-step lateral flow chromatography	Wondfo® One Step Multi-Drug Urine Test Cassette
		Methadone, qualitative by One-step lateral flow chromatography	Wondfo® One Step Multi-Drug Urine Test Cassette
		Morphine, qualitative by One-step lateral flow chromatography	Wondfo® One Step Morphine Urine Test Cassette
		Nicotine, qualitative by One-step lateral flow chromatography	AccuSign Nicotine assay
		Opiates, qualitative by One-step lateral flow chromatography	Wondfo® One Step Multi-Drug Urine Test Cassette
		Phencyclidine (PCP), qualitative by One-step lateral flow chromatography	Wondfo® One Step Multi-Drug Urine Test Cassette
		Propoxyphene, Morphine, qualitative by One-step lateral flow chromatography	Wondfo® One Step Propoxyphene Urine Test Cassette

Quality Healthcare Medical Services Ltd.- Alpha Medical Diagnostic Centre
卓健醫療服務有限公司 – 進領醫學診斷中心

Room 3805B-8 & 3815, 38/F, Skyline Tower, 39 Wang Kwong Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣宏光道 39 號宏天廣場 38 樓 3805B-8 及 3815 室

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology (cont'd)	**General Chemistry**		
	Fluoride plasma	Glucose by Spectrophotometry	Abbott Alinity c System, Glucose Assay
	Serum	Alanine Aminotransferase (ALT) by Spectrophotometry	Abbott Alinity c System, ALT2 Assay
		Albumin by Spectrophotometry	Abbott Alinity c System, Albumin BCG2 Assay
		Albumin / Globulin (A/G) Ratio by Calculation	Abbott Alinity c System Calculated from Protein Total and Albumin Method as documented in CHE-002
		Alkaline Phosphatase (ALP) by Spectrophotometry	Abbott Alinity c System, ALP2 Assay
		Amylase by Spectrophotometry	Abbott Alinity c System, AMY2 Assay
		Aspartate Aminotransferase (AST) by Spectrophotometry	Abbott Alinity c System, AST2 Assay
		Bilirubin, Direct by Spectrophotometry	Abbott Alinity c System, Direct Bilirubin Assay
		Bilirubin, Indirect by Calculation	Abbott Alinity c System Calculated from Bilirubin Total and Bilirubin Direct Method as documented in CHE-002
		Bilirubin, Total by Spectrophotometry	Abbott Alinity c System, Total Bilirubin Assay

Quality Healthcare Medical Services Ltd.- Alpha Medical Diagnostic Centre
卓健醫療服務有限公司 – 進領醫學診斷中心

Room 3805B-8 & 3815, 38/F, Skyline Tower, 39 Wang Kwong Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣宏光道 39 號宏天廣場 38 樓 3805B-8 及 3815 室

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology (cont'd)	**General Chemistry (cont'd)** Serum (cont'd)	Calcium by Spectrophotometry	Abbott Alinity c System, Calcium Assay
		Calcium (albumin adjusted) by Calculation	Calculated from Albumin and Calcium Method as documented in CHE-002
		Chloride by Potentiometry (Ion Selective Electrode)	Abbott Alinity c System, ICT Na^+, K^+, Cl^- Assay
		Cholesterol, high density lipoproteins (HDL) by Spectrophotometry	Abbott Alinity c System, AHDL Assay
		Cholesterol, low density lipoproteins (LDL) by Spectrophotometry	Abbott Alinity c System, Direct LDL Assay
		Cholesterol, low density lipoproteins (LDL) by Calculation	Abbott Alinity c System Calculated by Friedwald Formula Method as documented in CHE-002
		Cholesterol, very low density lipoproteins (vLDL) by Calculation	Abbott Alinity c System Calculated by Friedwald Formula Method as documented in CHE-002
		Cholesterol, Total by Spectrophotometry	Abbott Alinity c System, Cholesterol2 Assay
		Cholesterol, Total / HDL Ratio by Calculation	Abbott Alinity c System Calculated from Cholesterol, Total and HDL Method as documented in CHE-002
		Creatinine by Spectrophotometry	Abbott Alinity c System, Creatinine2 Assay
		Estimated Glomerular Filtration Rate (eGFR) by Calculation	Calculated from Creatinine Method as documented in CHE-002
		Creatine Kinase (CK) by Spectrophotometry	Abbott Alinity c System, Creatine Kinase Assay

Quality Healthcare Medical Services Ltd.- Alpha Medical Diagnostic Centre
卓健醫療服務有限公司 – 進領醫學診斷中心

Room 3805B-8 & 3815, 38/F, Skyline Tower, 39 Wang Kwong Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣宏光道 39 號宏天廣場 38 樓 3805B-8 及 3815 室

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology (cont'd)	**General Chemistry (cont'd)** Serum (cont'd)	Gamma Glutamyltransferase (GGT) by Spectrophotometry	 Abbott Alinity c System, GGT2 Assay
		Globulin by Calculation	 Abbott Alinity c System Calculated from Protein Total and Albumin Method as documented in CHE-002
		Iron by Spectrophotometry	 Abbott Alinity c System, Iron2 Assay
		Iron saturation by Calculation	 Abbott Alinity c System Calculated from Iron and TIBC Method as documented in CHE-002
		Lactate Dehydrogenase (LDH) by Spectrophotometry	 Abbott Alinity c System, LDH2 Assay
		Magnesium by Spectrophotometry	 Abbott Alinity c System, Magnesium Assay
		Oral glucose tolerance test by Spectrophotometry	 Abbott Alinity c System, Glucose Assay
		Phosphate by Spectrophotometry	 Abbott Alinity c System, Phosphorus Assay
		Potassium by Potentiometry (Ion Selective Electrode)	 Abbott Alinity c System, ICT Na^+, K^+, Cl^- Assay
		Protein, Total by Spectrophotometry	 Abbott Alinity c System, Total Protein2 Assay

Quality Healthcare Medical Services Ltd.- Alpha Medical Diagnostic Centre
卓健醫療服務有限公司 – 進領醫學診斷中心

Room 3805B-8 & 3815, 38/F, Skyline Tower, 39 Wang Kwong Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣宏光道 39 號宏天廣場 38 樓 3805B-8 及 3815 室

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology (cont'd)	**General Chemistry (cont'd)** Serum (cont'd)	Sodium by Potentiometry (Ion Selective Electrode)	Abbott Alinity c System, ICT Na^+, K^+, Cl^- Assay
		Total Iron Binding Capacity (TIBC) by Calculation	Abbott Alinity c System Calculated from Iron and UIBC Method as documented in CHE-002
		Triglycerides by Spectrophotometry	Abbott Alinity c System, Triglycerides2 Assay
		Unsaturated Iron Binding Capacity (UIBC) by Spectrophotometry	Abbott Alinity c System, UIBC Assay
		Urate by Spectrophotometry	Abbott Alinity c System, Uric Acid2 Assay
		Urea by Spectrophotometry	Abbott Alinity c System, Urea Assay
	Urine (spot)	Creatinine by Spectrophotometry	Abbott Alinity c System, Creatinine2 Assay
		Glucose by Spectrophotometry	Abbott Alinity c System, Glucose Assay
		Microalbumin by Immunoturbidity	Abbott Alinity c System, Microalbumin Assay
		Microalbumin / Creatinine by Calculation	Abbott Alinity c System Calculated from urine Microalbumin and urine Creatinine Method as documented in CHE-002
		Protein by Spectrophotometry	Abbott Alinity c System, Urine/CSF Protein Assay
		Protein / Creatinine Ratio by Calculation	Abbott Alinity c System Calculated from urine Protein and urine Creatinine Method as documented in CHE-002

Quality Healthcare Medical Services Ltd.- Alpha Medical Diagnostic Centre
卓健醫療服務有限公司 – 進領醫學診斷中心

Room 3805B-8 & 3815, 38/F, Skyline Tower, 39 Wang Kwong Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣宏光道 39 號宏天廣場 38 樓 3805B-8 及 3815 室

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology (cont'd)	**General Chemistry (cont'd)** Urine (24 hour)	Glucose by Spectrophotometry	Abbott Alinity c System, Glucose Assay
		Calcium by Spectrophotometry	Abbott Alinity c System, Calcium Assay
		Chloride by Potentiometry (Ion Selective Electrode)	Abbott Alinity c System, ICT Na^+, K^+, Cl^- Assay
		Creatinine by Spectrophotometry	Abbott Alinity c System, Creatinine2 Assay
		Creatinine clearance by Calculation	Abbott Alinity c System Calculated from serum/urine Creatinine Method as documented in CHE-002
		Magnesium by Spectrophotometry	Abbott Alinity c System, Magnesium Assay
		Microalbumin by Immunoturbidity	Abbott Alinity c System, Microalbumin Assay
		Phosphate by Spectrophotometry	Abbott Alinity c System, Phosphorus Assay
		Potassium by Potentiometry (Ion Selective Electrode)	Abbott Alinity c System, ICT Na^+, K^+, Cl^- Assay
		Protein, Total by Spectrophotometry	Abbott Alinity c System, Urine/CSF Protein Assay
		Sodium by Potentiometry (Ion Selective Electrode)	Abbott Alinity c System, ICT Na^+, K^+, Cl^- Assay
		Urate by Spectrophotometry	Abbott Alinity c System, Uric Acid2 Assay
		Urea by Spectrophotometry	Abbott Alinity c System, Urea Assay

Quality Healthcare Medical Services Ltd.- Alpha Medical Diagnostic Centre
卓健醫療服務有限公司 – 進領醫學診斷中心

Room 3805B-8 & 3815, 38/F, Skyline Tower, 39 Wang Kwong Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣宏光道 39 號宏天廣場 38 樓 3805B-8 及 3815 室

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology (cont'd)	**Hormones** Serum	Cortisol by Immunoassay (Chemiluminescent label)	Abbott Alinity i System, Cortisol Assay
		Dehydroepiandrosterone sulfate (DHEA-S) by Immunoassay (Chemiluminescent label)	Abbott Alinity i System, DEHA-S Assay
		Estradiol by Immunoassay (Chemiluminescent label)	Abbott Alinity i System, E2 Assay
		Free Thyroxine Index by Calculation	Abbott Alinity i System Calculated from Total T4 and T Uptake Method as documented in IMM-002
		Follicle Stimulating Hormone (FSH) by Immunoassay (Chemiluminescent label)	Abbott Alinity i System, FSH Assay
		Beta-Human Chorionic Gonadotropin (β-HCG) by Immunoassay (Chemiluminescent label)	Abbott Alinity i System, β-HCG Assay
		Lutheinising Hormone (LH) by Immunoassay (Chemiluminescent label)	Abbott Alinity i System, LH Assay
		Progesterone by Immunoassay (Chemiluminescent label)	Abbott Alinity i System, Progesterone Assay
		Prolactin by Immunoassay (Chemiluminescent label)	Abbott Alinity i System, Prolactin Assay
		Testosterone by Immunoassay (Chemiluminescent label)	Abbott Alinity i System, Testosterone Assay
		Thyroid Stimulating Hormone (TSH) by Immunoassay (Chemiluminescent label)	Abbott Alinity i System, TSH Assay

Quality Healthcare Medical Services Ltd.- Alpha Medical Diagnostic Centre
卓健醫療服務有限公司 – 進領醫學診斷中心

Room 3805B-8 & 3815, 38/F, Skyline Tower, 39 Wang Kwong Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣宏光道 39 號宏天廣場 38 樓 3805B-8 及 3815 室

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology (cont'd)	**Hormones (cont'd)** Serum (cont'd)	Thyroxine, Free (FT4) by Immunoassay (Chemiluminescent label)	Abbott Alinity i System, Free T4 Assay
		Thyroxine, total (T4) by Immunoassay (Chemiluminescent label)	Abbott Alinity i System, Total T4 Assay
		Triiodothyronine, Free (FT3) by Immunoassay (Chemiluminescent label)	Abbott Alinity i System, Free T3 Assay
		Triiodothyronine, Total (T3) by Immunoassay (Chemiluminescent label)	Abbott Alinity i System, Total T3 Assay
		Triiodothyronine (T3) Uptake by Immunoassay (Chemiluminescent label)	Abbott Alinity i System, T-Uptake Assay
	Proteins, quantitative analysis Serum	C-Reactive Protein (CRP) by Spectrophotometry	Abbott Alinity c System, CRP Vario Assay
		C-Reactive Protein (CRP), high sensitivity by Spectrophotometry	Abbott Alinity c System, CRP Vario Assay

Quality Healthcare Medical Services Ltd.- Alpha Medical Diagnostic Centre
卓健醫療服務有限公司 – 進領醫學診斷中心

Room 3805B-8 & 3815, 38/F, Skyline Tower, 39 Wang Kwong Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣宏光道 39 號宏天廣場 38 樓 3805B-8 及 3815 室

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology (cont'd)	**Special Chemistry**		
	Serum	25-Hydroxyvitamin D, Total (Vitamin D, Total) by Immunoassay (Chemiluminescent label)	Abbott Alinity i System, 25(OH) Vitamin D Assay
		Anti-cyclic Citrullinate Peptide by Immunoassay (Chemiluminescent label)	Abbott Alinity i System, Anti-CCP Assay
		Ferritin by Immunoassay (Chemiluminescent label)	Abbott Alinity i System, Ferritin Assay
		Folate by Immunoassay (Chemiluminescent label)	Abbott Alinity i System, Folate Assay
	EDTA whole blood	Haemoglobin A1C (HbA1c) by Ion Exchange High Performance Liquid Chromatography (HPLC)	Bio-Rad D-100 Dual Program Pack
	Serum	Homocysteine (HCY) by Immunoassay (Chemiluminescent label)	Abbott Alinity i System, Homocysteine Assay
		Vitamin B12 by Immunoassay (Chemiluminescent label)	Abbott Alinity i System, Vitamin B12 Assay
	Stool	Occult Blood by Colloidal gold immune colorimetric method	NS Prime Discrete Chemical analyser with FIT Hemoglobin NS-Prime Test Reagent

Quality Healthcare Medical Services Ltd.- Alpha Medical Diagnostic Centre
卓健醫療服務有限公司 – 進領醫學診斷中心

Room 3805B-8 & 3815, 38/F, Skyline Tower, 39 Wang Kwong Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣宏光道 39 號宏天廣場 38 樓 3805B-8 及 3815 室

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology (cont'd)	**Tumour markers** Serum	Alpha-fetoprotein (AFP) by Immunoassay (Chemiluminescent label)	Abbott Alinity i System, AFP Assay
		CA 15-3 by Immunoassay (Chemiluminescent label)	Abbott Alinity i System, CA 15-3 Assay
		CA19-9 by Immunoassay (Chemiluminescent label)	Abbott Alinity i System, CA 19-9 Assay
		CA 125 by Immunoassay (Chemiluminescent label)	Abbott Alinity i System, CA 125 II Assay
		Carcinoembryonic Antigen (CEA) by Immunoassay (Chemiluminescent label)	Abbott Alinity i System, CEA Assay
		Human Epididymis Protein 4 (HE4) by Immunoassay (Chemiluminescent label)	Abbott Alinity i System, HE4 Assay
		Prostate Specific Antigen, Free (FPSA) by Immunoassay (Chemiluminescent label)	Abbott Alinity i System, Free PSA Assay
		Prostate Specific Antigen, Total (TPSA) by Immunoassay (Chemiluminescent label)	Abbott Alinity i System, Total PSA Assay
		FPSA / TPAS Ratio by Calculation	Abbott Alinity i System Calculated from Free PSA and Total PSA Method as documented in IMM-002
		Risk of Ovarian Malignancy Algorithm (ROMA) by Calculation	Abbott Alinity i System Calculated from CA 125 and HE4 Method as documented in IMM-002
		Thyroglobulin (Tg) by Immunoassay (Chemiluminescent label)	YHLO iFlash 1800 Analyzer iFlash-Tg assay

Quality Healthcare Medical Services Ltd.- Alpha Medical Diagnostic Centre
卓健醫療服務有限公司 – 進領醫學診斷中心

Room 3805B-8 & 3815, 38/F, Skyline Tower, 39 Wang Kwong Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣宏光道 39 號宏天廣場 38 樓 3805B-8 及 3815 室

MEDICAL TESTING				
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術	
This laboratory is accredited for performing the examinations listed below.				
Clinical Microbiology and Infection	**Bacteriology - Serology** Serum	Anti-Streptolysin O Titre (ASOT) by Agglutination	biokit.rheumatjet ASO test assay Method as documented in HAE-015	
		Heterophile antibodies of Infectious Mononucleosis by Monospot Test	Meridian Diagnostics MONOSPOT assay Method as documented in HAE-012	
		Helicobacter pylori Antibody (IgG) by Immunoassay (Enzyme-based label)	SERION ELISA *Helicobacter pylori* IgG assay Method as documented in HAE-029	
	Microbiology – Miscellaneous Air in special aluminum air bag	*Helicobacter pylori* (*H. pylori*) breath test by Non-Dispersive Infrared Spectrophotometry	HeliFAN Plus ^{13}C- Breath Test Device FANci2 ^{13}C- Breath Test Device Method as documented in HAE-019	.vs2.
	Parasitology - Microscopy and staining Stool	Microscopy for ova and parasite by Smear after concentration	Method as documented in SUR-002	
	Syphilis serology Serum	Reagin antibody in response to Treponemal infection by Rapid Plasma Reagin (RPR)	Arlington Scientific Inc RPR Card Test for Syphilis assay Method as documented in HAE-014	

Quality Healthcare Medical Services Ltd.- Alpha Medical Diagnostic Centre
卓健醫療服務有限公司 – 進領醫學診斷中心

Room 3805B-8 & 3815, 38/F, Skyline Tower, 39 Wang Kwong Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣宏光道 39 號宏天廣場 38 樓 3805B-8 及 3815 室

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Urinalysis and/or urine microscopy** Urine	Urine formed elements by Microscopic examination with fixed volume in counting chamber Automated imaging and evaluation technology	 Method as documented in SUR-008 Sysmex UF5000 Urine Particle Analyser and UD10 Urine Particle Digital Imaging Device Method as documented in SUR-008
		Urinalysis by dipstick method, including: - Bilirubin - Glucose - Ketone - Leukocytes - Nitrite - pH - Protein - Specific Gravity - Occult Blood - Urobilinogen	 Sysmex UC3500 Urine Chemistry Analyser Method as documented in SUR-008

Quality Healthcare Medical Services Ltd.- Alpha Medical Diagnostic Centre
卓健醫療服務有限公司 – 進領醫學診斷中心

Room 3805B-8 & 3815, 38/F, Skyline Tower, 39 Wang Kwong Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣宏光道 39 號宏天廣場 38 樓 3805B-8 及 3815 室

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術	
This laboratory is accredited for performing the examinations listed below.				
Clinical Microbiology and Infection (cont'd)	**Virology - Serology** Serum	Epstein Barr virus antibody (IgA) by Immunoassay (Chemiluminescent label)	YHLO iFlash 1800 Analyser iFlash-EBNA IgA Assay Method as documented in HAE-030	
		Epstein Barr virus antibody (IgA) by Immunoassay (Enzyme-based label)	Stratec Biomedical System – *Gemini* using Sinoclone EBV IgA ELISA kit Method as documented in HAE-032	.vs1.
		Hepatitis A virus antibody IgG by Immunoassay (Chemiluminescent label)	Abbott Alinity i System, HAVAb-IgG assay Method as documented in IMM-002	
		Hepatitis B virus core antibody (Anti-HBc) by Immunoassay (Chemiluminescent label)	Abbott Alinity i System, Anti-HBc assay Method as documented in IMM-002	
		Hepatitis B virus e-antibody (Anti-HBe) by Immunoassay (Chemiluminescent label)	Abbott Alinity i System, Anti-HBe assay Method as documented in IMM-002	
		Hepatitis B virus surface antibody (Anti-HBs) quantitative by Immunoassay (Chemiluminescent label)	Abbott Alinity i System, Anti-HBs assay Method as documented in IMM-002	
		Hepatitis B virus surface antigen (HBsAg) by Immunoassay (Chemiluminescent label)	Abbott Alinity i System, HBsAg assay Method as documented in IMM-002	
		Hepatitis B virus e-antigen (HBeAg) by Immunoassay (Chemiluminescent label)	Abbott Alinity i System, HBeAg assay Method as documented in IMM-002	
		Hepatitis C virus antibody (HCV) by Immunoassay (Chemiluminescent label)	Abbott Alinity i System, Anti-HCV assay n Method as documented i IMM-002	
		Herpes simplex virus type 2 antibody by Immunoassay (Enzyme-based label)	EUROIMMUN Anti-HSV-2 ELISA (IgG) Assay Method as documented in HAE-032	.vs1.

Quality Healthcare Medical Services Ltd.- Alpha Medical Diagnostic Centre
卓健醫療服務有限公司 – 進領醫學診斷中心

Room 3805B-8 & 3815, 38/F, Skyline Tower, 39 Wang Kwong Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣宏光道 39 號宏天廣場 38 樓 3805B-8 及 3815 室

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Virology - Serology (cont'd)** Serum (cont'd)	Herpes simplex virus type 2 antibody, IgG by Immunoassay (Chemiluminescent label)	YHLO iFlash 1800 Analyser iFlash-HSV-2 IgG Assay Method as documented in HAE-031
		Human immunodeficiency virus (HIV) I p24 Antigen/HIV I and II antibody by Immunoassay (Chemiluminescent label)	Abbott Alinity i System, HIV Ag/Ab Combo assay Method as documented in IMM-002
		Rubella virus antibody, IgG, quantitative by Immunoassay (Chemiluminescent label)	Abbott Alinity i System, Rubella IgG assay Method as documented in IMM-002
		Treponema pallidum Antibody by Immunoassay (Chemiluminescent label)	Abbott Alinity i System, Syphilis TP assay Method as documented in IMM-002
		Varicella zoster virus antibody, IgG by Immunoassay (Enzyme-based label)	SERION ELIZA classic Varicella Zoster Virus IgG assay Method as documented in HAE-023
		Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) Antibody (IgG), quantitative by Immunoassay (Chemiluminescent label)	Abbott Alinity i System, SARS-CoV-2 IgG II Quant assay Method as documented in IMM-002 YHLO iFlash 1800 Analyzer iFlash-SARS-CoV-2 IgG-S Method as documented in HAE-025
		Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) Neutralisation Antibody (NAb), quantitative by Immunoassay (Chemiluminescent label)	YHLO iFlash 1800 Analyzer iFlash-2019-nCoV NAb assay Method as documented in HAE-025

Quality Healthcare Medical Services Ltd.- Alpha Medical Diagnostic Centre
卓健醫療服務有限公司 – 進領醫學診斷中心

Room 3805B-8 & 3815, 38/F, Skyline Tower, 39 Wang Kwong Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣宏光道 39 號宏天廣場 38 樓 3805B-8 及 3815 室

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Haematology	**Haematology - General**		
	EDTA whole blood	Complete blood count including - Haemoglobin - Haematocrit - Leucocyte count (WBC count) - Leucocyte differential count - Mean corpuscular volume (MCV) - Mean corpuscular haemoglobin (MCH) - Mean corpuscular haemoglobin concentration (MCHC) - Platelet count - Red cell count	Sysmex XN-2000
		Erythrocyte Sedimentation Rate (ESR) by Microphometrical capillary stopped flow kinetic analysis	Alifax Test 1 SDL automated system
		Peripheral blood smear examination by May-Grunwald-Giemsa/ Wright stain	Method as documented in HAE-005
	Haematology - Immunohaematology		
	EDTA whole blood	ABO and Rh (D) typing by Red cell agglutination (automated method)	Ortho Vision Swift Analyser

Quality Healthcare Medical Services Ltd.- Alpha Medical Diagnostic Centre
卓健醫療服務有限公司 – 進領醫學診斷中心

Room 3805B-8 & 3815, 38/F, Skyline Tower, 39 Wang Kwong Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣宏光道 39 號宏天廣場 38 樓 3805B-8 及 3815 室

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Immunology	**Autoantibody detection**		
	Serum	Anti-double strand DNA by Immunoassay (Enzyme-based label)	EUROIMMUN Anti-dsDNA-NCx ELISA (IgG) assay
		Anti-ENA by Immunoassay (Enzyme-based label)	EUROIMMUN Anti-ENA ProfilPlus (IgG) assay
		Anti-Nuclear antibody (ANA) by Immunofluorescence	EUROIMMUN Hep-20-10 assay HELIOS Automated IFA System AESKUSLIDES® ANA-HEp-2 assay
		Anti-Thyroglobulin (Anti-Tg) by Immunoassay (Chemiluminescent label)	Abbott Alinity i System, Anti-Tg Assay
		Anti-Thyroid Peroxidase (Anti-TPO) by Immunoassay (Chemiluminescent label)	Abbott Alinity i System, Anti-TPO Assay
		Rheumatoid Arthritis Factor (RF) by Immunoassay (Chemiluminescent label)	Abbott Alinity i System, RF Assay
	Immunochemistry		
	Serum	C3 Complement by Turbidormetric end point method	Abbott Alinity c System, C3 Assay
		C4 Complement by Turbidormetric end point method	Abbott Alinity c System, C4 Assay

Quality Healthcare Medical Services Ltd.- Alpha Medical Diagnostic Centre
卓健醫療服務有限公司 – 進領醫學診斷中心

Room 3805B-8 & 3815, 38/F, Skyline Tower, 39 Wang Kwong Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣宏光道 39 號宏天廣場 38 樓 3805B-8 及 3815 室

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics	**Molecular Genetics (Anatomical Pathology)**		
	Cervical scraping specimen	Human Papillomavirus (HPV), genotyping - detection by Real-Time Polymerase Chain Reaction, qualitative	
		(Target region: L1 gene)	Nucleic acid extraction, amplification and detection by Cobas 4800 HPV AMP/DET Kit Method as documented in MOL-006
		(Target region: E6/E7 gene)	Nucleic acid extraction, amplification and detection by Cepheid Innovation GeneXpert HPV Assay Method as documented in MOL-018

.vs1.

Quality Healthcare Medical Services Ltd.- Alpha Medical Diagnostic Centre
卓健醫療服務有限公司 – 進領醫學診斷中心

Room 3805B-8 & 3815, 38/F, Skyline Tower, 39 Wang Kwong Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣宏光道 39 號宏天廣場 38 樓 3805B-8 及 3815 室

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術	
This laboratory is accredited for performing the examinations listed below.				
Medical Genetics (cont'd)	**Molecular Genetics (Microbiology)**			
	Urine and female genital swabs	*Chlamydia trachomatis* (CT) - detection by Real-Time Polymerase Chain Reaction, qualitative (Target region: cryptic plasmid)	Nucleic acid extraction, amplification and detection by Cobas 4800 CT/NG AMP/DET Kit Method as documented in MOL-005	.vs1.
		Neisseria Gonorrhoeae (NG) - detection by Real-Time Polymerase Chain Reaction, qualitative (Target region: DR-9)	Nucleic acid extraction, amplification and detection by Cobas 4800 CT/NG AMP/DET Kit Method as documented in MOL-005	.vs1.
	Cervical scraping, endocervical swab, vaginal swab, male urethral swab, and urine	*Chlamydia trachomatis* (CT) - detection by Real-Time Polymerase Chain Reaction, qualitative (Target region: cryptic plasmid and ompA gene)	Nucleic acid extraction, amplification and detection by Cepheid Innovation GeneXpert CT/NG Assay Method as documented in MOL-017	
		Neisseria Gonorrhoeae (NG) - detection by Real-Time Polymerase Chain Reaction, qualitative (Target region: DR-9)	Nucleic acid extraction, amplification and detection by Cepheid Innovation GeneXpert CT/NG Assay Method as documented in MOL-017	

Quality Healthcare Medical Services Ltd.- Alpha Medical Diagnostic Centre
卓健醫療服務有限公司 – 進領醫學診斷中心

Room 3805B-8 & 3815, 38/F, Skyline Tower, 39 Wang Kwong Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣宏光道 39 號宏天廣場 38 樓 3805B-8 及 3815 室

Summary of Voluntary Suspension

1. .vs1. denotes the examination for which accreditation has been voluntarily suspended with effect from 11 November 2024 (Notification Letter No. HOKLAS819S-56).
2. .vs2. denotes the examination for which accreditation has been voluntarily suspended with effect from 9 December 2024 (Notification Letter No. HOKLAS819S-56).

Hospital Authority - Hong Kong East Cluster, Department of Clinical Pathology
醫院管理局–港島東聯網臨床病理部

ADDRESS **地址**	:	Pathology Block, Pamela Youde Nethersole Eastern Hospital, 3 Lok Man Road, Chai Wan, Hong Kong 香港柴灣樂民道三號，東區尤德夫人那打素醫院，病理學大樓
ENQUIRY **查詢**	:	Ms April CHENG Yuk-wah 鄭玉華女士
TELEPHONE **電話**	:	2595 5038
FAX **傳真**	:	2505 6937
E-MAIL **電郵**	:	cyw306@ha.org.hk
CLIENTELE **服務對象**	:	Public and private hospitals and clinics 公營及私營醫院和診所

Hospital Authority - Hong Kong East Cluster, Department of Clinical Pathology
醫院管理局–港島東聯網臨床病理部

ADDRESS :
地址

Main Facility

Pathology Block, Pamela Youde Nethersole Eastern Hospital, 3 Lok Man Road, Chai Wan, Hong Kong
香港柴灣樂民道三號，東區尤德夫人那打素醫院，病理學大樓

(i) Histopathology Laboratory: 5/F, Pathology Block
(ii) Cytopathology Laboratory: 6/F, Pathology Block
(iii) Autopsy Service: LG2, Main Block
(iv) Chemical Pathology Laboratory: 3/F, Pathology Block; 1/F, Main Block
(v) Microbiology Laboratory: 4/F, Pathology Block
(vi) Haematology Laboratory: 2/F, Pathology Block; 1/F, Main Block
(vii) Blood Bank: 1/F, Main Block
(viii) Molecular Laboratory: 1/F and 3/F, Pathology Block

Branch Facility

LG1, Ruttonjee & Tang Shiu Kin Hospitals, 266 Queen's Road East, Wan Chai, Hong Kong
香港灣仔皇后大道東266號，律敦治及鄧肇堅醫院，地庫一層

(i) Rapid Response Laboratory and Blood Bank
(ii) Mycobacteriology Laboratory

LABORATORY DIRECTOR
化驗所主管 : **Pathologist Director 病理學主管:**
Dr LAM Yiu-wing
林耀榮醫生
MBBS (HKU), MRCP (UK), FRCPath (UK), FHKCPath, FHKAM (Pathology)

PATHOLOGIST IN CHARGE OF THE ACCREDITED DISCIPLINE
負責認可範疇的病理學專科醫生 :

Anatomical Pathology 解剖病理學
Dr HIOE Fei 丘斐醫生 (Full-time 全職)

Chemical Pathology 化學病理學
Dr POON Wing-tat 潘永達醫生 (Full-time 全職)

Clinical Microbiology and Infection 臨床微生物學及傳染病
Dr LEE Rodney Allan (Full-time 全職)

Haematology 血液學
Dr Rosalina IP Ka-ling 葉嘉玲醫生 (Full-time 全職)

ACCREDITED TEST CATEGORY
認可測試類別 : **Medical Testing 醫務化驗**

Anatomical Pathology 解剖病理學
Chemical Pathology 化學病理學
Clinical Microbiology and Infection 臨床微生物學及傳染病
Haematology 血液學
Immunology 免疫學
Medical Genetics (Molecular Genetics) 醫學遺傳學(分子遺傳學)

Hospital Authority - Hong Kong East Cluster, Department of Clinical Pathology
醫院管理局–港島東聯網臨床病理部
Autopsy Service: LG2, Main Block, PYNEH, 3 Lok Man Rd, Chai Wan, HK
香港柴灣樂民道三號東區尤德夫人那打素醫院, 地庫二層

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology	**Autopsy** Adult, fetal and perinatal autopsy	Autopsy examination by H&E and special staining	Autopsy method and specimen preparation & handling: Method as documented in HC-OP-MAP Routine and special staining as in Histopathology: H&E staining: HC-OP-H&E, HC-OP-DISP Special staining: HC-OP-SPEC

Hospital Authority - Hong Kong East Cluster, Department of Clinical Pathology
醫院管理局–港島東聯網臨床病理部
Anatomical Pathology Laboratory: 5/F, Pathology Block, PYNEH, 3 Lok Man Rd, Chai Wan, HK
香港柴灣樂民道三號東區尤德夫人那打素醫院病理學大樓五樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology (cont'd)	**Cytopathology**		
	Gynaecological specimens	Gynaecological cytology examination by Papanicolaou staining	Specimen handling: HC-OP-SCH Autocyte Preparation System: HC-OP-SP Manual screening: HC-OP-SR Totalys SlidePrep Preparation System
	Non-gynaecological specimens	Non-gynaecological cytology examination by H&E, Papanicolaou and special staining	Specimen handling and preparation: HC-OP-SCH HC-OP-SP Haematoxylin and Eosin (H&E) stain: HC-OP-SRP Papanicolaou stain: HC-OP-SRP Special staining (manual): Method as documented in HC-OP-SPEC Eosinophil by Papanicolaou stain Haemosiderin by Perls' Prussian Blue Fat-laden macrophages by Oil Red O Urate crystals by polarization microscopy Acid-fast-bacilli by Ziehl-Neelsen Fungi by Grocott's Methenamine Silver Pneumocystis carinii by Grocott's Methenamine Silver Manual screening: HC-OP-SR
	Fine needle aspirates	Fine Needle Aspiration cytology examination by H&E, Papanicolaou and special staining	Specimen handling and preparation: HC-OP-SCH, HC-OP-SP Haematoxylin and Eosin stain: HC-OP-SRP Papanicolaou stain: HC-OP-SRP Special staining (manual): Method as documented in HC-OP-SPEC Acid mucin by Lison's Alcian Blue Amyloid by Highman's Congo red Periodate reactive carbohydrates by Periodic Acid Schiff with amylase digestion Mucin, capsule of Cryptococcus neoformans by Southgate's Mucicarmine Fungi by Grocott's Methenamine Silver Gram positive and negative organisms by modified Gram technique Manual screening: HC-OP-SR

Hospital Authority - Hong Kong East Cluster, Department of Clinical Pathology
醫院管理局–港島東聯網臨床病理部
Anatomical Pathology Laboratory: 5/F, Pathology Block, PYNEH, 3 Lok Man Rd, Chai Wan, HK
香港柴灣樂民道三號東區尤德夫人那打素醫院病理學大樓五樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology (cont'd)	**Histopathology** Surgical pathology	Histology examination by H&E and special staining	Specimen preparation: HC-OP-SPH, HC-OP-PRO, HC-OP-CUT, HC-OP-EMB H&E staining: HC-OP-H&E, HC-OP-DISP Special staining (manual): HC-OP-SPEC Acid mucin by Lison's Alcian Blue Acid and neutral mucin by Mowry's AB+PAS Reticulin by Gordon & Sweet's technique Axon, nerve endings, neurofibrillary tangles, neurotic plaques by Bielschowsky's silver Mallory bodies by Chromotrope-aniline blue Mast cells by Chloroacetate Esterase Amyloid by Highman's Congo red Elastic fibres by Victoria blue Ferric iron by Perl's Prussian blue Mycobacteria (M. leprae) by Wade Fite Azurophilic granules and granulocytes by Giemsa technique Gram positive and negative organisms by modified Gram technique Fungi by Grocott's Methenamine Silver Myelin, Nissl substance by Luxol Fast Blue Mucin, capsule of Cryptococcus neoformans by Southgate's Mucicarmine Melanin, lipofuscin, argentaffin, chromaffin cells by Masson-Fontana silver Fibrin by Martius-Scarlet-Blue HBsAg by Shikata's Silver Unsaturated hydrophobic lipid by Oil Red O Periodate reactive carbohydrates by Periodic Acid Schiff with amylase digestion Basement membrane by Periodic Acid Silver Methenamine (Gomori's PASM) Acid fast bacilli by Ziehl Neelsen Collagen and muscle by Masson's Trichrome Calcium salts by Von Kossa's Silver Spirochaetes, Helicobacter by Warthin Starry's Silver

Hospital Authority - Hong Kong East Cluster, Department of Clinical Pathology
醫院管理局–港島東聯網臨床病理部
Anatomical Pathology Laboratory: 5/F, Pathology Block, PYNEH, 3 Lok Man Rd, Chai Wan, HK
香港柴灣樂民道三號東區尤德夫人那打素醫院病理學大樓五樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology (cont'd)	**Histopathology (cont'd)**		
	Intra-operative frozen section for fresh tissue specimens and biopsies	Histology examination by H&E staining	Specimen preparation and H&E staining (manual): HC-OP-FROZ
	Fresh tissue specimens and biopsies	Histology examination and enzyme histochemistry by H&E and special staining	Specimen preparation and H&E staining (manual): HC-OP-SPH, HC-OP-FROZ HC-OP-SPEC Special staining (manual) for muscle: HC-OP-SPEC Acid phosphatase Adenosine triphosphatase NADH Succinic Dehydrogenase Sudan Black B Periodic Acid Schiff Special staining (manual) for rectal: HC-OP-SPEC Acetylcholine esterase
	Renal and skin biopsies	Immunofluorescence examination by Manual method	Direct Immnofluorescence examination for renal and skin: HC-OP-SPEC IgA/IgM/IgG/C1q/Complement 3/Fibrinogen/Kappa/Lambda
	Histological and Cytological specimen	Immunohistochemical examination for various antigen markers by Automation and manual method	Immunohistochemistry (both automation and manual): as documented in HC-OP-IMM Autostaining by Ventana BenchMark Ultra DAKO Link 48 Lab Vision 360

Hospital Authority - Hong Kong East Cluster, Department of Clinical Pathology
醫院管理局–港島東聯網臨床病理部
Anatomical Pathology Laboratory: 5/F, Pathology Block, PYNEH, 3 Lok Man Rd, Chai Wan, HK
香港柴灣樂民道三號東區尤德夫人那打素醫院病理學大樓五樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology (cont'd)	**Histopathology (cont'd)** Histological and Cytological specimen	Epstein-Barr Virus Early RNAs (EBV EBER) by Chromogenic In-situ Hybridization (CISH)	INFORM EBER Probe in conjunction with ISH iVIEWBlue Detection kit on the Ventana BenchMark ULTRA Autostainer as documented in MP-OP-ISH
		Kappa and Lambda immunoglobulin light chain mRNA by Chromogenic In-situ Hybridization (CISH)	INFORM Kappa/ Lambda Probe in conjunction with ISH iVIEWBlue Detection kit on the Ventana BenchMark ULTRA Autostainer as documented in MP-OP-ISH

Hospital Authority - Hong Kong East Cluster, Department of Clinical Pathology
醫院管理局–港島東聯網臨床病理部
Anatomical Pathology Laboratory: 5/F, Pathology Block, PYNEH, 3 Lok Man Rd, Chai Wan, HK
香港柴灣樂民道三號東區尤德夫人那打素醫院病理學大樓五樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics	**Molecular Genetics (anatomical pathology)** Breast tissue	Amplification of erb-b2 receptor tyrosine kinase 2 (ERBB2, HER2) by Dual In-situ Hybridization (DISH)	INFORM HER2 Dual ISH DNA Probe Cocktail (Roche) in conjunction with ultraView SISH DNP Detection kit and ultraView Red ISH DIG Detection kit on the Ventana BenchMark ULTRA Autostainer as documented in MP-OP-ISH

Hospital Authority - Hong Kong East Cluster, Department of Clinical Pathology
醫院管理局–港島東聯網臨床病理部
Chemical Pathology Laboratory: 1/F, Main Block; 3/F, Pathology Block, PYNEH, 3 Lok Man Rd, Chai Wan, HK
香港柴灣樂民道三號東區尤德夫人那打素醫院一樓；病理學大樓三樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology	**Biogenic Amine**		
	Urine (Spot, 24-hour)	Catecholamines and Metanephrines by Liquid chromatography-mass spectrometry (LC-MS)	Waters Xevo TQ system
	Blood gases and Co-oximetry		
	Heparinized whole blood	Blood Gas include:	
		- pCO_2 by Potentiometry (pCO_2-Sensing Electrode)	Siemens RapidLab 1265 System
		- pH by Potentiometry (Ion-Selective Electrode)	Siemens RapidLab 1265 System
		- pO_2 by Polarography (Oxygen-Sensing)	Siemens RapidLab 1265 System
		- Bicarbonate by Auto calculation	Siemens RapidLab 1265 System
		- Base Excess by Auto calculation	Siemens RapidLab 1265 System
		- O_2 Saturation by Auto calculation	Siemens RapidLab 1265 System
		Carboxyhaemoglobin by Co-oximetry	Siemens RapidLab 1265 System
		Methaemoglobin by Co-oximetry	Siemens RapidLab 1265 System
	General Chemistry		
	Heparinized plasma	Alanine Aminotransferase (ALT) by Spectrophotometry	Abbott Architect c16000 System, ALT assay
		Albumin by Spectrophotometry	Abbott Architect c16000 System, AlbBCG2 assay
		Alkaline Phosphatase (ALP) by Spectrophotometry	Abbott Architect c16000 System, AlkP assay
	EDTA plasma	Ammonia by Spectrophotometry	Abbott Architect c16000 System, Amm assay

Hospital Authority - Hong Kong East Cluster, Department of Clinical Pathology
醫院管理局–港島東聯網臨床病理部
Chemical Pathology Laboratory: 1/F, Main Block; 3/F, Pathology Block, PYNEH, 3 Lok Man Rd, Chai Wan, HK
香港柴灣樂民道三號東區尤德夫人那打素醫院一樓；病理學大樓三樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**General Chemistry (cont'd)**		
	Heparinized plasma	Amylase by Spectrophotometry	Abbott Architect c16000 System, AMY2 assay
		Aspartate Aminotransferase (AST) by Spectrophotometry	Abbott Architect c16000 System, AST2 assay
	Heparinized plasma	Beta-hydroxybutyrate by Spectrophotometry	Abbott Architect c16000 System, Randox Beta-hydroxybutyrate assay
		Bilirubin - Direct by Spectrophotometry	Abbott Architect c16000 System, BilD assay
		Bilirubin - Neonates by Spectrophotometry	Leica Bilirubinometer
		Bilirubin - Total by Spectrophotometry	Abbott Architect c16000 System, BiliT assay
		Calcium by Spectrophotometry	Abbott Architect c16000 System, CaC assay
	Low heparinized whole blood	Calcium, ionized by Potentiometry (Ion-Selective Electrode)	Siemens RapidLab 1265 System
	Heparinized plasma	Chloride by Potentiometry (Ion-Selective Electrode)	Abbott Architect c16000 System, Chloride assay
		Cholesterol by Spectrophotometry	Abbott Architect c16000 System, Chol2 assay
		Cholesterol - high density lipoproteins (HDL) by Spectrophotometry	Abbott Architect c16000 System, UHDL assay
		Creatine Kinase (CK) by Spectrophotometry	Abbott Architect c16000 System, CK assay
		Creatinine by Spectrophotometry	Abbott Architect c16000 System, Crea2 assay

Hospital Authority - Hong Kong East Cluster, Department of Clinical Pathology
醫院管理局–港島東聯網臨床病理部
Chemical Pathology Laboratory: 1/F, Main Block; 3/F, Pathology Block, PYNEH, 3 Lok Man Rd, Chai Wan, HK
香港柴灣樂民道三號東區尤德夫人那打素醫院一樓；病理學大樓三樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**General Chemistry (cont'd)**		
	Heparinized plasma (cont'd)	Estimated GFR by Calculation	Calculated from plasma creatinine
		Gamma Glutamyl Transpeptidase (GGT) by Spectrophotometry	Abbott Architect c16000 System, GGT2 assay
		Globulin by Calculation	Calculated from plasma Total Protein and Albumin
	Fluoride plasma, CSF	Glucose by Spectrophotometry	Abbott Architect c16000 System, GluC assay
	Heparinized plasma	Iron by Spectrophotometry	Abbott Architect c16000 System, Iron2 assay
		Iron Saturation by Calculation	Calculated from plasma Iron and TIBC
	Fluoride plasma, CSF	Lactate by Spectrophotometry	Abbott Architect c16000 System, LactA assay
	Heparinized plasma	Lactate dehydrogenase (LDH) by Spectrophotometry	Abbott Architect c16000 System, LDH2 assay
		LDL cholesterol by Calculation	Calculated from Cholesterol, HDL Cholesterol and Triglycerides
		Magnesium by Spectrophotometry	Abbott Architect c16000 System, MAG assay
	Serum	Osmolality by Freezing Point Depression	A2O Advanced Automated Osmometer
	Heparinized plasma	Phosphate by Spectrophotometry	Abbott Architect c16000 System, Phos assay
		Potassium by Potentiometry (Ion-Selective Electrode)	Abbott Architect c16000 System, Potassium assay

Hospital Authority - Hong Kong East Cluster, Department of Clinical Pathology
醫院管理局–港島東聯網臨床病理部
Chemical Pathology Laboratory: 1/F, Main Block; 3/F, Pathology Block, PYNEH, 3 Lok Man Rd, Chai Wan, HK
香港柴灣樂民道三號東區尤德夫人那打素醫院一樓；病理學大樓三樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**General Chemistry (cont'd)**		
	Heparinized plasma (cont'd)	Protein, Total by Spectrophotometry	Abbott Architect c16000 System, TPRO2 assay
	CSF	Protein, Total by Spectrophotometry	Abbott Architect c16000 System, UPro assay
	Whole blood	Pyruvate by Spectrophotometry	Abbott Architect c16000 System, Biochemical Enterprise Pyruvate assay
	Heparinized plasma	Sodium by Potentiometry (Ion-Selective Electrode)	Abbott Architect c16000 System, Sodium assay
		Total Iron Binding Capacity, (TIBC) by Calculation	Calculated from plasma Iron and UIBC
		Triglycerides by Spectrophotometry	Abbott Architect c16000 System, Trig2 assay
		Troponin I by Immunoassay (Chemiluminescent label)	Abbott Architect *i*2000SR System, STAT hsTnI assay
		Unsaturated Iron Binding Capacity (UIBC) by Spectrophotometry	Abbott Architect c16000 System, UIBC assay
		Urate by Spectrophotometry	Abbott Architect c16000 System, Uric2 assay
		Urea by Spectrophotometry	Abbott Architect c16000 System, Urea2 assay
	Urine (spot, 24-hour)	Calcium by Spectrophotometry	Abbott Architect c16000 System, CaC assay
		Chloride by Potentiometry (Ion-Selective Electrode)	Abbott Architect c16000 System, Chloride assay
		Creatinine by Spectrophotometry	Abbott Architect c16000 System, Crea2 assay
	Urine (spot)	Osmolality by Freezing Point Depression	A2O Advanced Automated Osmometer
	Urine (spot, 24-hour)	Phosphate by Spectrophotometry	Abbott Architect c16000 System, Phos assay
		Potassium by Potentiometry (Ion-Selective Electrode)	Abbott Architect c16000 System, Potassium assay

Hospital Authority - Hong Kong East Cluster, Department of Clinical Pathology
醫院管理局–港島東聯網臨床病理部
Chemical Pathology Laboratory: 1/F, Main Block; 3/F, Pathology Block, PYNEH, 3 Lok Man Rd, Chai Wan, HK
香港柴灣樂民道三號東區尤德夫人那打素醫院一樓；病理學大樓三樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**General Chemistry (cont'd)** Urine (spot, 24-hour) (cont'd)	Protein, Total by Spectrophotometry	Abbott Architect c16000 System, UPro assay
		Sodium by Potentiometry (Ion-Selective Electrode)	Abbott Architect c16000 System, Sodium assay
		Urate by Spectrophotometry	Abbott Architect c16000 System, Uric2 assay
		Urea by Spectrophotometry	Abbott Architect c16000 System, Urea2 assay
		Urine albumin by Immunonephelometry	Beckman Coulter IMMAGE 800 System, MA assay
		Urine Albumin/Creatinine ratio by Calculation	Calculated from urine Albumin and urine Creatinine
		Urine Protein/Creatinine ratio by Calculation	Calculated from urine Protein and urine Creatinine
		Urine Urea/Creatinine ratio by Calculation	Calculated from urine Urea and urine Creatinine

Hospital Authority - Hong Kong East Cluster, Department of Clinical Pathology
醫院管理局–港島東聯網臨床病理部
Chemical Pathology Laboratory: 1/F, Main Block; 3/F, Pathology Block, PYNEH, 3 Lok Man Rd, Chai Wan, HK
香港柴灣樂民道三號東區尤德夫人那打素醫院一樓；病理學大樓三樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**Hormones** Serum	Cortisol by Immunoassay (Competitive binding immunoenzymatic assay)	Beckman Coulter UniCel DxI 800 Access Immunoassay System, Access Cortisol assay
		Estradiol by Immunoassay (Competitive binding immunoenzymatic assay)	Beckman Coulter UniCel DxI 800 Access Immunoassay System, Access Sensitive Estradiol assay
		Follicle stimulating hormone by Immunoassay (Sequential two-step immunoenzymatic assay)	Beckman Coulter UniCel DxI 800 Access Immunoassay System, Access hFSH assay
		Growth Hormone by Immunoassay (Simultaneous one-step immunoenzymatic assay)	Beckman Coulter UniCel DxI 800 Access Immunoassay System, Access Ultrasensitive hGH assay
		β-HCG, Total by Immunoassay (Chemiluminescent label)	Abbott Architect i2000SR System, β-hCG assay
		Luteinizing hormone by Immunoassay (Sequential two-step immunoenzymatic assay)	Beckman Coulter UniCel DxI 800 Access Immunoassay System, Access hLH assay
		Parathyroid hormone by Immunoassay (Two-site immunoenzymatic assay)	Beckman Coulter UniCel DxI 800 Access Immunoassay System, Access INTACT PTH (iPTH) assay
		Progesterone by Immunoassay (Competitive binding immunoenzymatic assay)	Beckman Coulter UniCel DxI 800 Access Immunoassay System, Access Progesterone assay
		Prolactin by Immunoassay (Simultaneous one-step immunoenzymatic assay)	Beckman Coulter UniCel DxI 800 Access Immunoassay System, Access Prolactin assay
		Prolactin Recovery by Calculation	Calculated from Prolactin

Hospital Authority - Hong Kong East Cluster, Department of Clinical Pathology
醫院管理局–港島東聯網臨床病理部
Chemical Pathology Laboratory: 1/F, Main Block; 3/F, Pathology Block, PYNEH, 3 Lok Man Rd, Chai Wan, HK
香港柴灣樂民道三號東區尤德夫人那打素醫院一樓；病理學大樓三樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**Hormones (cont'd)**		
	Serum (cont'd)	Testosterone by Immunoassay (Competitive binding immunoenzymatic assay)	Beckman Coulter UniCel DxI 800 Access Immunoassay System, Access Testosterone assay
		Thyroid Stimulating Hormone (TSH) by Immunoassay (Two-site Immunoenzymatic assay)	Beckman Coulter UniCel DxI 800 Access Immunoassay System, Access TSH (3rd IS) assay
		Thyroxine, free (FT3) by Immunoassay (Competitive binding immunoenzymatic assay)	Beckman Coulter UniCel DxI 800 Access Immunoassay System, Access Free T3 assay
		Thyroxine, free (FT4) by Immunoassay (Two-step enzyme immunoassay)	Beckman Coulter UniCel DxI 800 Access Immunoassay System, Access Free T4 assay
	Protein, qualitative analysis		
	Serum, urine (spot)	Protein pattern by agarose gel electrophoresis	INTERLAB G26 system
		Monoclonal protein by immunofixation	Sebia HYDRASYS 2 Scan Focusing system
	Protein, quantitative analysis		
	Serum	C-Reactive Protein by Turbidimetry	Abbott Architect c16000 System, CRP assay
		Ferritin by Immunoassay (Two-site immunoenzymatic assay)	Beckman Coulter UniCel DxI 800 Access Immunoassay System, Access Ferritin assay
	Therapeutic Drug Monitoring		
	Serum	Carbamazepine by Immunoassay (Chemiluminescent label)	Abbott Architect i2000SR System, iCarb assay

Hospital Authority - Hong Kong East Cluster, Department of Clinical Pathology
醫院管理局–港島東聯網臨床病理部
Chemical Pathology Laboratory: 1/F, Main Block; 3/F, Pathology Block, PYNEH, 3 Lok Man Rd, Chai Wan, HK
香港柴灣樂民道三號東區尤德夫人那打素醫院一樓；病理學大樓三樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**Therapeutic Drug Monitoring (cont'd)**		
	EDTA whole blood	Cyclosporin A by Liquid chromatography-tandem mass spectrometry (LC-MS/MS)	Waters TQD Mass Spectrometer
	Serum	Digoxin by Immunoassay (Chemiluminescent label)	Abbott Architect i2000SR System, iDigoxin assay
		Lithium by Spectrophotometry	Abbott Architect c16000 System, Lith assay
		Phenobarbital by Immunoassay (Chemiluminescent label)	Abbott Architect i2000SR System, iPhenobarbital assay
		Phenytoin by Immunoassay (Chemiluminescent label)	Abbott Architect i2000SR System, iPhenytoin assay
	EDTA whole blood	Tacrolimus by Liquid chromatography-tandem mass spectrometry (LC-MS/MS)	Waters TQD Mass Spectrometer
	Serum	Theophylline by Immunoassay (Chemiluminescent label)	Abbott Architect i2000SR System, iTheophylline assay
		Valproic acid by Immunoassay (Chemiluminescent label)	Abbott Architect i2000SR System, iValproic acid assay

Hospital Authority - Hong Kong East Cluster, Department of Clinical Pathology
醫院管理局–港島東聯網臨床病理部
Chemical Pathology Laboratory: 1/F, Main Block; 3/F, Pathology Block, PYNEH, 3 Lok Man Rd, Chai Wan, HK
香港柴灣樂民道三號東區尤德夫人那打素醫院一樓；病理學大樓三樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**Toxicology**		
	Heparinized plasma	Acetaminophen by Spectrophotometry	Abbott Architect c16000 System, Aceta assay
		Cholinesterase by Spectrophotometry	Abbott Architect c16000 System, ChE assay
		Ethanol by Spectrophotometry	Abbott Architect c16000 System, EtohM assay
		Salicylate by Spectrophotometry	Abbott Architect c16000 System, Sali assay
	Urine	Toxicology Screening by Liquid Chromatography - Time-of-flight Mass Spectrometry (LC-MS-TOF)	Method as documented in CC-SOP-G2XS-TEST using Waters Acquity I class UPLC – Waters Vevo G2-XS Mass Spectrometer
	Tumour Markers		
	Serum	Alpha-fetoprotein (AFP) by Immunoassay (Two-site immunoenzymatic assay)	Beckman Coulter UniCel DxI 800 Access Immunoassay System, Access AFP assay
		CA 125 by Immunoassay (Two-site immunoenzymatic assay)	Beckman Coulter UniCel DxI 800 Access Immunoassay System, Access OV MONITOR assay
		CA 15.3 by Immunoassay (Two-site immunoenzymatic assay)	Beckman Coulter UniCel DxI 800 Access Immunoassay System, Access BR MONITOR assay
		CA 19.9 by Immunoassay (Two-site immunoenzymatic assay)	Beckman Coulter UniCel DxI 800 Access Immunoassay System, Access GI MONITOR assay
		CEA by Immunoassay (Two-site immunoenzymatic assay)	Beckman Coulter UniCel DxI 800 Access Immunoassay System, Access CEA assay

Hospital Authority - Hong Kong East Cluster, Department of Clinical Pathology
醫院管理局–港島東聯網臨床病理部
Chemical Pathology Laboratory: 1/F, Main Block; 3/F, Pathology Block, PYNEH, 3 Lok Man Rd, Chai Wan, HK
香港柴灣樂民道三號東區尤德夫人那打素醫院一樓；病理學大樓三樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**Tumour Markers (cont'd)** Serum (cont'd)	PSA by Immunoassay (Two-site immunoenzymatic assay)	Beckman Coulter UniCel DxI 800 Access Immunoassay System, Access Hybritech PSA assay
		Free PSA by Immunoassay (Two-site immunoenzymatic assay)	Beckman Coulter UniCel DxI 800 Access Immunoassay System, Access Hybritech free PSA assay
		p2PSA by Immunoassay (Two-site immunoenzymatic assay)	Beckman Coulter UniCel DxI 800 Access Immunoassay System, Access Hybritech p2PSA assay
		Prostate Health Index (phi) by Calculation	Calculated from total PSA, Free PSA and p2PSA
		Thyroglobulin by Immunoassay (Simultaneous one-step immunoenzymatic assay)	Beckman Coulter UniCel DxI 800 Access Immunoassay System, Access Thyroglobulin assay

Hospital Authority - Hong Kong East Cluster, Department of Clinical Pathology
醫院管理局–港島東聯網臨床病理部
Chemical Pathology Laboratory: 1/F, Main Block; 3/F, Pathology Block, PYNEH, 3 Lok Man Rd, Chai Wan, HK
香港柴灣樂民道三號東區尤德夫人那打素醫院一樓；病理學大樓三樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Immunology	**Immunochemistry**		
	Serum	C3 Complement (C3) by Immunonephelometry	Beckman Coulter IMMAGE 800 System, C3 assay
		C4 Complement (C4) by Immunonephelometry	Beckman Coulter IMMAGE 800 System, C4 assay
		Ceruloplasmin by Immunonephelometry	Beckman Coulter IMMAGE 800 System, CER assay
		Haptoglobin by Immunonephelometry	Beckman Coulter IMMAGE 800 System, HPT assay
		Immunoglobulin A, IgA by Immunonephelometry	Beckman Coulter IMMAGE 800 System, IGA assay
		Immunoglobulin E, IgE by Immunoturbidimetry	Beckman Coulter IMMAGE 800 System, IGE assay
	Serum, CSF	Immunoglobulin G, IgG by Immunonephelometry	Beckman Coulter IMMAGE 800 System, IGG assay
	Serum	Immunoglobulin M, IgM by Immunonephelometry	Beckman Coulter IMMAGE 800 System, IGM assay
	Autoantibodies		
	Serum	Rheumatoid factor (RF) by Immunoturbidimetry	Abbott Architect c16000 System, RF assay

Hospital Authority - Hong Kong East Cluster, Department of Clinical Pathology
醫院管理局–港島東聯網臨床病理部
Microbiology Laboratory: 4/F, Pathology Block, PYNEH, 3 Lok Man Rd, Chai Wan, HK
香港柴灣樂民道三號東區尤德夫人那打素醫院，病理學大樓四樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection	**Bacteriology - Culture and sensitivity tests and/or microscopy**		
	Enteric samples (including stool and rectal swab)	Culture and antimicrobial susceptibility test for enteric pathogens by Aerobic and microaerophilic culture	Method as documented in CM-SOP-STCU
		Culture and antimicrobial susceptibility test for specific pathogens or those with clinical indications by Aerobic culture	Method as documented in CM-SOP-STCU
		- Escherichia coli O157 - Vancomycin resistant Enterococcus	Method as documented in CM-SOP-VRE
		- Carbapenem resistant Enterobacteriaceae	Method as documented in CM-SOP-CPE
		Anaerobic culture - Clostridium difficile	Method as documented in CM-SOP-STCU
	Urine	Culture and antimicrobial susceptibility test for urinary pathogens by Standard loop method and aerobic culture	Method as documented in CM-SOP-URCU
	Suprapubic urine	Culture and antimicrobial susceptibility test for urinary pathogens by Aerobic, CO_2 and anaerobic culture	Method as documented in CM-SOP-URCU
	Upper respiratory tract samples (including throat swab, nasal swab etc.)	Culture and antimicrobial susceptibility test for upper respiratory tract pathogens by Aerobic and CO_2 culture	Method as documented in CM-SOP-SPCU
	Nasal swab and Nasopharyngeal/pernasal swab	Culture and antimicrobial susceptibility test for specific pathogens or those with clinical indications by Aerobic culture	Method as documented in CM-SOP-SPCU
		- Staphylococcus aureus - Methicillin-resistant Staphylococcus aureus(MRSA)	
		- Bordetella pertussis	Method as documented in CM-SOP-MRSA

Hospital Authority - Hong Kong East Cluster, Department of Clinical Pathology
醫院管理局–港島東聯網臨床病理部
Microbiology Laboratory: 4/F, Pathology Block, PYNEH, 3 Lok Man Rd, Chai Wan, HK
香港柴灣樂民道三號東區尤德夫人那打素醫院，病理學大樓四樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Bacteriology - Culture and sensitivity tests and/or microscopy (cont'd)**		
	Lower respiratory tract samples (including sputum, bronchial aspirate, tracheal aspirate etc.)	Microscopy for cell morphology and microorganisms by Gram Stain	Method as documented in CM-SOP-SPCU
		Culture and antimicrobial susceptibility test for lower respiratory tract pathogens by Aerobic and CO_2 culture	Method as documented in CM-SOP-SPCU
		Culture and antimicrobial susceptibility test for specific pathogens or those with clinical indications by Aerobic culture - *Nocardia* species	Method as documented in CM-SOP-SPCU
	Brochioalveolar lavage (BAL) and Protected bronchial brush	Microscopy for cell morphology and microorganisms by Gram Stain	Method as documented in CM-SOP-SPCU
		Culture and antimicrobial susceptibility test for pathogens by Aerobic, CO_2 and anaerobic culture	Method as documented in CM-SOP-SPCU
	Genital sample	Microscopy for cell morphology and microorganisms by Gram Stain	Method as documented in CM-SOP-MSCU
		Culture and antimicrobial susceptibility test for genital pathogens by Aerobic and CO_2 culture	Method as documented in CM-SOP-MSCU
	Miscellaneous sample	Culture and antimicrobial susceptibility test for *Neisseria gonorrhoeae* by CO_2 culture	Method as documented in CM-SOP-MSCU

Hospital Authority - Hong Kong East Cluster, Department of Clinical Pathology
醫院管理局–港島東聯網臨床病理部
Microbiology Laboratory: 4/F, Pathology Block, PYNEH, 3 Lok Man Rd, Chai Wan, HK
香港柴灣樂民道三號東區尤德夫人那打素醫院，病理學大樓四樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Bacteriology - Culture and sensitivity tests and/or microscopy (cont'd)**		
	Miscellaneous samples (including body fluid, swab, pus, tissue etc.)	Microscopy for cell morphology and microorganisms by Gram Stain	Method as documented in CM-SOP-MSCU
		Cell count (body fluid) by Counting chamber	Method as documented in CM-SOP-MSCU
		Fluorescent Flow Cytometry	Sysmex XN-450 analyser
	Superficial wound	Culture and antimicrobial susceptibility test for pathogens by Aerobic and CO_2 culture	Method as documented in CM-SOP-MSCU
	Deep wound and tissue	Culture and antimicrobial susceptibility test for pathogens by Aerobic, CO_2 and anaerobic culture	Method as documented in CM-SOP-MSCU
	Sterile body fluid	Culture and antimicrobial susceptibility test for pathogens by Aerobic, CO_2 and anaerobic culture	Method as documented in CM-SOP-MSCU
	Eye sample (swab)	Culture and antimicrobial susceptibility test for pathogens by Aerobic and CO_2 culture	Method as documented in CM-SOP-MSCU
	Eye sample (pus, aspirate, intraocular fluid etc.)	Culture and antimicrobial susceptibility test for pathogens by Aerobic, CO_2 and anaerobic culture	Method as documented in CM-SOP-MSCU
	Ear sample (swab)	Culture and antimicrobial susceptibility test for pathogens by Aerobic and CO_2 culture	Method as documented in CM-SOP-MSCU

Hospital Authority - Hong Kong East Cluster, Department of Clinical Pathology
醫院管理局–港島東聯網臨床病理部
Microbiology Laboratory: 4/F, Pathology Block, PYNEH, 3 Lok Man Rd, Chai Wan, HK
香港柴灣樂民道三號東區尤德夫人那打素醫院，病理學大樓四樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Bacteriology - Culture and sensitivity tests and/or microscopy (cont'd)**		
	Ear sample (pus and discharge)	Culture and antimicrobial susceptibility test for pathogens by Aerobic, CO_2 and anaerobic culture	Method as documented in CM-SOP-MSCU
	Blood	Culture and antimicrobial susceptibility test for pathogens by Aerobic and anaerobic broth culture	Method as documented in CM-SOP-BLCU using BD BACTEC FX and BacT/ALERT® 3D System bioMerieux VIRTUO System
	CSF	Microscopy for - Cell count by Counting chamber	Method as documented in CM-SOP-CSFC
		Fluorescent Flow Cytometry	Sysmex XN-450 analyser
		- Microorganisms by Gram Stain	Method as documented in CM-SOP-STAIN
		- Encapsulated yeast by India Ink Stain	Method as documented in CM-SOP-STAIN
		Culture and antimicrobial susceptibility tests for pathogens, by Aerobic and CO_2 culture	Method as documented in CM-SOP-CSFC
	Clinical isolates	Identification of clinical isolates by MALDI-TOF Mass Spectrometry	Method as documented in CM-SOP-MALDI using BD Bruker IVD MALDI-TOF Biotype System
	Clinical isolates	Antimicrobial susceptibility test for pathogen by Automated microbroth MIC determination	Biomerieux VITEK 2 XL System Thermo Scientific Sensititre ARIS HiQ™

Hospital Authority - Hong Kong East Cluster, Department of Clinical Pathology
醫院管理局–港島東聯網臨床病理部
Microbiology Laboratory: 4/F, Pathology Block, PYNEH, 3 Lok Man Rd, Chai Wan, HK
香港柴灣樂民道三號東區尤德夫人那打素醫院，病理學大樓四樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Bacteriology – Serology**		
	Serum	Anti-Streptolysin O antibody by Latex agglutination test	Biokit rheumajet ASO
		Brucella antibody by Agglutination test	Method as documented in CM-SOP-SERO
	CSF, Serum	Cryptococcal antigen by Lateral flow assay	IMMY CrAg® LFA
	Urine	Legionella pneumophilia serogroup 1 antigen by Rapid immunochromatographic assay	BinaxNOW Legionella Urinary Antigen Card
		Streptococcus pneumoniae antigen by Rapid immunochromatographic assay	BinaxNOW Streptococcus pneumoniae Antigen Card
	Bacteriology – Therapeutic drug monitoring		
	Serum	Vancomycin (Quantitative) by Immunoassay (Kinetic interaction of microparticles in a solution)	Roche Cobas c503 System, VANC3 assay

Hospital Authority - Hong Kong East Cluster, Department of Clinical Pathology
醫院管理局–港島東聯網臨床病理部
Microbiology Laboratory: 4/F, Pathology Block, PYNEH, 3 Lok Man Rd, Chai Wan, HK
香港柴灣樂民道三號東區尤德夫人那打素醫院，病理學大樓四樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Mycobacteriology – Microscopy**		
	CSF, Respiratory specimens and miscellaneous samples	Microscopy for acid fast bacilli (AFB) by Ziehl- Neelsen stain Auramine O fluorescent stain	Method as documented in CM-SOP-TB
	Mycology – Culture, ID and Serology		
	Dermatological samples (including tissue, skin, hair and nail)	Microscopy for fungal filaments and yeasts by KOH preparation	Method as documented in CM-SOP-FGCU
	Respiratory and body fluids	Microscopy for fungal filaments and yeasts - Lacto Pheno Cotton Blue Stain - Gram stain	Method as documented in CM-SOP-FGCU Method as documented in CM-SOP-STAIN
	All samples	Culture for fungi and identification by Aerobic culture	Method as documented in CM-SOP-FGCU
	Parasitology – Microscopy and staining		
	Stool	Microscopy for enteric parasites by - Direct wet smear - Smear after concentration	Method as documented in CM-SOP-PAR
		Microscopy for Amoeba by - Direct wet smear - Smear after concentration	Method as documented in CM-SOP-PAR
		Identification of intestinal protozoa parasites by - Iron Haematoxylin stain - Gomori's Trichome stain	Method as documented in CM-SOP-PAR

Hospital Authority - Hong Kong East Cluster, Department of Clinical Pathology
醫院管理局–港島東聯網臨床病理部
Microbiology Laboratory: 4/F, Pathology Block, PYNEH, 3 Lok Man Rd, Chai Wan, HK
香港柴灣樂民道三號東區尤德夫人那打素醫院，病理學大樓四樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Syphilis Serology**		
	Serum	Treponemal pallidum antibody by	
		Treponemal pallidum passive particle agglutination test (TPPA)	Method as documented in CM-SOP-SERO using Fujirebio Serodia TP.PA Kit
	Urinalysis and/or urine microscopy		
	Urine	Urine formed elements by	
		Microscopic examination with fixed volume in microtitre plate	Method as documented in CM-SOP-URCU
		Automated imaging and evaluation technology	Roche Cobas u701 microscopy analyser
		Urinalysis by dipstick method, including: - Glucose - Bilirubin - Ketone - Specific Gravity - Blood - pH - Protein - Urobilinogen - Nitrate	Method as documented in CM-SOP-URCU using Roche Cobas u601 urine analyser Roche Cobas u pack urine test strips
	Virology – Serology		
	Respiratory samples (mainly NPA & NPS)	Adenovirus by	
		Direct Immunofluorescence	Method as documented in CM-SOP-RVDIF D3 Ultra 8 DFA Respiratory Virus Screening & ID Kit – D3Ultra Adenovirus DFA Reagent, Diagnostic Hybrids
		Human Metapneumovirus by	
		Direct Immunofluorescence	Method as documented in CM-SOP-RVDIF D3 Ultra 8 DFA Respiratory Virus Screening & ID Kit – D3 Ultra Metapneumovirus DFA Reagent, Diagnostic Hybrids

Hospital Authority - Hong Kong East Cluster, Department of Clinical Pathology
醫院管理局–港島東聯網臨床病理部
Microbiology Laboratory: 4/F, Pathology Block, PYNEH, 3 Lok Man Rd, Chai Wan, HK
香港柴灣樂民道三號東區尤德夫人那打素醫院，病理學大樓四樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Virology – Serology (cont'd)**		
	Respiratory samples (mainly NPA & NPS) (cont'd)	Influenza virus by Direct Immunofluorescence Test	Method as documented in CM-SOP-RVDIF D3 Ultra 8 DFA Respiratory Virus Screening & ID Kit – D3 Ultra Influenza A and Influenza B DFA Reagents, Diagnostic Hybrids
		Parainfluenza virus by Direct Immunofluorescence Test	Method as documented in CM-SOP-RVDIF D3 Ultra 8 DFA Respiratory Virus Screening & ID Kit – D3 Ultra Parainfluenza 1, Parainfluenza 2 & Parainfluenza 3DFA Reagents, Diagnostic Hybrids
		Respiratory syncytial virus by Direct Immunofluorescence Test	Method as documented in CM-SOP-RVDIF D3 Ultra 8 DFA Respiratory Virus Screening & ID Kit – D3Ultra RSV DFA Reagent, Diagnostic Hybrids
	Serum	Hepatitis B virus core antibody (Qualitative) by Immunoassay (Chemiluminescent label)	Roche Cobas e801 System, Elecsys Anti-HBc II assay
		Hepatitis B virus e antibody (Qualitative) by Immunoassay (Chemiluminescent label)	Roche Cobas e801 System, Elecsys Anti-HBe assay
		Hepatitis B virus e antigen (Qualitative) by Immunoassay (Chemiluminescent label)	Roche Cobas e801 System, Elecsys HBeAg assay
		Hepatitis B virus surface antigen (Quantitative) by Immunoassay (Chemiluminescent label)	Roche Cobas e801 System, Elecsys HBsAg II assay and Elecsys HBsAg II Auto Confirm assay

Hospital Authority - Hong Kong East Cluster, Department of Clinical Pathology
醫院管理局–港島東聯網臨床病理部
Microbiology Laboratory: 4/F, Pathology Block, PYNEH, 3 Lok Man Rd, Chai Wan, HK
香港柴灣樂民道三號東區尤德夫人那打素醫院，病理學大樓四樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Virology – Serology (cont'd)** Serum (cont'd)	Human immunodeficiency virus I & II antibody and p24 antigen (Qualitative) by Immunoassay (Chemiluminescent label)	Roche Cobas e801 System Elecsys HIV Duo assay
		Rubella virus antibody (IgG) (Qualitative) by Immunoassay (Chemiluminescent label)	Roche Cobas e801 System Elecsys Rubella IgG assay
		Varicella zoster virus antibody by Enzyme-linked Fluorescent Assay (ELFA)	bioMerieux VIDAS Varicella-zoster IgG Assay

Hospital Authority - Hong Kong East Cluster, Department of Clinical Pathology
醫院管理局–港島東聯網臨床病理部
Haematology Laboratory: 2/F, Pathology Block and 1/F Main Block, PYNEH, 3 Lok Man Rd, Chai Wan, HK
香港柴灣樂民道三號東區尤德夫人那打素醫院一樓，病理學大樓二樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology	**Coagulation**		
	Citrate blood	Coagulation studies, automated including	
		- Prothrombin Time (PT)	Beckman Coulter ACLTop550 CTS
		- Activated partial thromboplastin time (APTT)	Beckman Coulter ACLTop550 CTS
		- Fibrinogen	ACL TOP 550
		D-Dimer by Enzyme linked fluorescent assay (ELFA)	mini VIDAS
		Factor II assay	Beckman Coulter ACLTop550 CTS
		Factor V assay	Beckman Coulter ACLTop550 CTS
		Factor VII assay	Beckman Coulter ACLTop550 CTS
		Factor VIII assay	Beckman Coulter ACLTop550 CTS
		Factor IX assay	Beckman Coulter ACLTop550 CTS
		Factor X assay	Beckman Coulter ACLTop550 CTS
		Factor XI assay	Beckman Coulter ACLTop550 CTS
		Factor XII assay	Beckman Coulter ACLTop550 CTS

Hospital Authority - Hong Kong East Cluster, Department of Clinical Pathology
醫院管理局–港島東聯網臨床病理部
Haematology Laboratory: 2/F, Pathology Block and 1/F Main Block, PYNEH, 3 Lok Man Rd, Chai Wan, HK
香港柴灣樂民道三號東區尤德夫人那打素醫院一樓，病理學大樓二樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology (cont'd)	**Coagulation (cont'd)** Citrate blood (cont'd)	Factor inhibitor screening	Method as documented in HS 006 using Beckman Coulter ACLTop550 CTS
		Lupus Anti-coagulant detection by Dilute Russell's Viper Venom Time (DRVVT)	Method as documented in HS 006 using Beckman Coulter ACLTop550 CTS
		Mixing Study	Method as documented in HS 006
		Thrombophilia screening: - Protein C - Free Protein S - Anti-thrombin - Activated Protein C Resistance	Method as documented in HS 006 using Beckman Coulter ACLTop550 CTS
		Thrombin Time	Method as documented in HS 003 and HS 006 using ACL TOP 550
		Von Willebrand Disease screening: - vWF Antigen - vWF Ristocetin Cofactor	Method as documented in HS 006 Beckman Coulter ACLTop550 CTS

Hospital Authority - Hong Kong East Cluster, Department of Clinical Pathology
醫院管理局–港島東聯網臨床病理部
Haematology Laboratory: 2/F, Pathology Block and 1/F Main Block, PYNEH, 3 Lok Man Rd, Chai Wan, HK
香港柴灣樂民道三號東區尤德夫人那打素醫院一樓，病理學大樓二樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology (cont'd)	**Haematology – General** EDTA whole blood	Complete blood count including: - Haemoglobin - Haematocrit - Leucocyte count (WBC count) - Mean corpuscular volume (MCV) - Mean corpuscular haemoglobin concentration (MCHC) - Mean corpuscular haemoglobin (MCH) - Platelet count - Red cell count - Red cell distribution width (RDW) - Mean Platelet Volume (MPV)	Sysmex XN9100
		Leucocyte differential count by Automated method	Sysmex XN9100

Hospital Authority - Hong Kong East Cluster, Department of Clinical Pathology
醫院管理局–港島東聯網臨床病理部
Haematology Laboratory: 2/F, Pathology Block and 1/F Main Block, PYNEH, 3 Lok Man Rd, Chai Wan, HK
香港柴灣樂民道三號東區尤德夫人那打素醫院一樓，病理學大樓二樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology (cont'd)	**Haematology – General**		
	EDTA whole blood	Peripheral blood smear examination by May Grunwald – Giemsa stain	Sysmex SP-50
		Reticulocyte count, automated by Polymethine dye	Sysmex XN9100
		Reticulocyte count (Manual) by New Methylene Blue stain	Method as documented in HS 006
		Malaria parasite examination by Thick and thin films	Method as documented in HS 008: Smear preparation and Giemsa staining (pH7.2)
	Haematology – Special		
	EDTA marrow blood aspirate, clot, trephine	Bone Marrow Examination	Specimen preparation and staining as documented in HS 006 and HS 009 Marrow smear by May Grunwald - Giemsa and Perl's Prussian Blue stain as documented in HS 006 Peripheral blood smear by May Grunwald –Giemsa or Wright –Giemsa stain
	EDTA whole blood	Glucose-6-phosphate dehydrogenase (G6PD): - screening by fluorescence test	Method as documented in HS 008
		Haemoglobin A2 and F quantitation by High performance liquid chromatography (HPLC)	BioRad Variant II HPLC analyzer
		Haemoglobin H inclusion bodies by - New Methylene Blue stain	Method as documented in HS 007
		Haemoglobin pattern by Capillary electrophoresis	Sebia Capillarys 3 Tera

Hospital Authority - Hong Kong East Cluster, Department of Clinical Pathology
醫院管理局–港島東聯網臨床病理部
Haematology Laboratory: 2/F, Pathology Block and 1/F Main Block, PYNEH, 3 Lok Man Rd, Chai Wan, HK
香港柴灣樂民道三號東區尤德夫人那打素醫院一樓，病理學大樓二樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology (cont'd)	**Haematology – Special**		
	Serum	Monospot Test	Meridian Bioscience Monospot Test Kit
		Holotranscobalamin (Active B12) by Immunoassay (Chemiluminescent label)	Abbott Architect i1000SR, Vitamin B12 assay
		Folate by Immunoloassay (Chemiluminescent label)	Abbott Architect i1000SR, Folate assay
	EDTA whole blood	Kleihauer's test	Method as documented in HS 008
	Plasma and heparinized blood	Plasma haemoglobin by Spectrophotometry	Method as documented in HS 008

Hospital Authority - Hong Kong East Cluster, Department of Clinical Pathology
醫院管理局–港島東聯網臨床病理部
Blood Bank: 1/F, Main Block, PYNEH, 3 Lok Man Rd, Chai Wan, HK
香港柴灣樂民道三號東區尤德夫人那打素醫院一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology (cont'd)	**Blood bank – Antenatal screen**		
	Clotted blood and EDTA blood	ABO and Rh(D) typing and antibody screening for anti-D for Rh(D) negative patients	Method as documented in BB-SOP-GLP and BB-SOP-TEST
	Blood bank – General		
	Clotted blood and EDTA blood	ABO and Rh (D) typing by Direct agglutination	Method as documented in BB-SOP-TEST
		ABO and Rh (D) typing by - Red Cell Agglutination, automated	Method as documented in BB-SOP-IH1000 using Bio-Rad IH1000
		ABO and Rh (D) - Weak D Testing by Indirect antiglobulin test (IAT)	Method as documented in BB-SOP-TEST
		Antibody screening by - Red Cell Agglutination, manual	Method as documented in BB-SOP-TEST using Bio-Rad reagents
		- Red Cell Agglutination, automated	Method as documented in BB-SOP-IH1000 using Bio-Rad IH1000
		- Saline-Indirect antiglobulin test	Method as documented in BB-SOP-TEST
		Red cell phenotyping by - Direct agglutination	Method as documented in BB-SOP-TEST
		- Indirect antiglobulin test (IAT)	Method as documented in BB-SOP-TEST
		- Rec Cell Agglutination, automated	Method as documented in BB-SOP-IH1000 using Bio-Rad IH1000
		Crossmatch by - Computer crossmatch	Method as documented in BB-SOP-GLP and BB-SOP-TEST
		- Immediate spin	Method as documented in BB-SOP-GLP and BB-SOP-TEST
		- Saline-Indirect antiglobulin test	Method as documented in BB-SOP-TEST
		- Red Cell Agglutination, manual	Method as documented in BB-SOP-TEST using Bio-Rad reagents
		- Red Cell Agglutination, automated	Method as documented in BB-SOP-IH1000 using Bio-Rad IH1000

Hospital Authority - Hong Kong East Cluster, Department of Clinical Pathology
醫院管理局–港島東聯網臨床病理部
Blood Bank: 1/F, Main Block, PYNEH, 3 Lok Man Rd, Chai Wan, HK
香港柴灣樂民道三號東區尤德夫人那打素醫院一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology (cont'd)	**Blood bank – Immunohaematology**		
	EDTA Blood	Direct antiglobulin test (DAT) by	
		- Conventional method	Method as documented in BB_SOP-TEST
		- Red Cell Agglutination, manual	Method as documented in BB-SOP-TEST using Bio-Rad gel card
	Blood bank – Special		
	EDTA blood	Antibody elution and identification by Acid Glycine/EDTA elution	Method as documented in BB-SOP-TEST
	Clotted blood	Antibody identification by	
		- Red Cell Agglutination, manual	Method as documented in BB-SOP-TEST using Bio-Rad reagents
		- Red Cell Agglutination, automated	Method as documented in BB-SOP-IH1000 using Bio-Rad IH1000
	Clotted blood and EDTA blood	Investigation of ABO Blood Group Anomaly	Method as documented in BB-SOP-GLP
	Maternal clotted blood	Investigation of haemolytic disease of newborn, including: - ABO and Rh(D) typing	Method as documented in BB-SOP-TEST
	Clotted blood and EDTA blood	Transfusion reaction, including - ABO and Rh(D) typing - Red cell antigen phenotyping - Antibody identification - Crossmatching	Method as documented in BB-SOP-GLP

Hospital Authority - Hong Kong East Cluster, Department of Clinical Pathology
醫院管理局–港島東聯網臨床病理部
Molecular Laboratory: 1/F and 3/F, Pathology Block, PYNEH, 3 Lok Man Rd, Chai Wan, HK
香港柴灣樂民道三號東區尤德夫人那打素醫院病理學大樓一樓及三樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics	**Molecular Genetics (microbiology)**		
	CSF	Multiple meningitis and encephalitis pathogens detection and identification by multiplexed nucleic acid test, qualitative - *Escherichia coli* K1 - *Haemophilus influenzae* - *Listeria monocytogenes* - *Neisseria meningitidis* - *Streptococcus agalactiae* - *Streptococcus pneumoniae* - Cytomegalovirus (CMV) - Enterovirus (EV) - Herpes simplex virus 1 (HSV-1) - Herpes simplex virus 2 (HSV-2) - Human herpesvirus 6 (HHV-6) - Human parechovirus (HPeV) - Varicella zoster virus (VZV) - *Cryptococcus neoformans/gattii* (Target regions: proprietary)	The BioFire FilmArray Meningitis/ Encephalitis (ME) panel Method as documented in CM-SOP-FAME
	Respiratory samples	*Chlamydophila pneumoniae* – Detection by Real-Time Polymerase Chain Reaction, qualitative (Target region: J38 genomic region)	Nucleic acid extraction by MagNA Pure 96 automated nucleic acid extraction system Nucleic acid amplification and detection as documented in MP-OP-ChPn
	Stool	*Clostridium difficile* – Detection by Real-time Polymerase Chain Reaction, qualitative (Target region: tcdC gene)	Cepheid Xpert C. difficile BT Nucleic acid extraction, amplification and detection by Xpert C. difficile assay as documented in MP-OP-Cldif

Hospital Authority - Hong Kong East Cluster, Department of Clinical Pathology
醫院管理局–港島東聯網臨床病理部
Molecular Laboratory: 1/F and 3/F, Pathology Block, PYNEH, 3 Lok Man Rd, Chai Wan, HK
香港柴灣樂民道三號東區尤德夫人那打素醫院病理學大樓一樓及三樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics (cont'd)	**Molecular Genetics (microbiology) (cont'd)**		
	EDTA Blood	Hepatitis B Virus (HBV) – Detection by Real-Time Polymerase Chain Reaction (PCR), quantitative (Target region: pre-Core / Core region of the HBV genome)	Nucleic acid extraction, amplification and detection by Roche Cobas 4800 using cobas® HBV assay
	EDTA Blood	Hepatitis C Virus – detection by Real-Time Polymerase Chain Reaction, quantitative (Target region: 5' NTR)	Nucleic acid extraction by Roche cobas x480 Nucleic acid amplification and detection by Roche cobas z480 Method as documented in MP-OP-HCV
		Hepatitis C Virus genotyping by Real-Time Polymerase Chain Reaction	RealTime PCR using Roche Cobas HCV GT Nucleic acid extraction by Roche cobas x 480 Nucleic acid amplification and detection by Roche cobas z480 Method as documented in MP-OP-HCV
	Respiratory samples	Influenza A virus – Detection by Reverse transcription and Real-time Polymerase Chain Reaction, qualitative (Target region: M gene)	Nucleic acid extraction by KingFisher Flex System, EMAG and MagNA Pure 96 automated nucleic acid extraction system Method as documented in MP-OP-Influenza A
		Influenza A virus (H1, H3, H5 and Swine H1subtype) – Detection by Reverse transcription and Real-time Polymerase Chain Reaction, qualitative (Target region: HA gene)	Nucleic acid extraction by KingFisher Flex System, EMAG and MagNA Pure 96 automated nucleic acid extraction system Method as documented in MP-OP-Influenza A

Hospital Authority - Hong Kong East Cluster, Department of Clinical Pathology
醫院管理局–港島東聯網臨床病理部
Molecular Laboratory: 1/F and 3/F, Pathology Block, PYNEH, 3 Lok Man Rd, Chai Wan, HK
香港柴灣樂民道三號東區尤德夫人那打素醫院病理學大樓一樓及三樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics (cont'd)	**Molecular Genetics (microbiology) (cont'd)**		
	Respiratory samples	Influenza A virus, Influenza B virus and Respiratory Syncytial Virus by Reverse Transcription and Real-Time Polymerase Chain Reaction, qualitative (Target region: Influenza A virus: M, PB2 and PA gene Influenza B virus: M and NS gene RSV: RSV A and RSV B nucleocapsid gene)	Cepheid Xpert Xpress Flu/RSV Assay in Cepheid GeneXpert System Method as documented in MP-OP-FLUABRSV
		Legionella pneumophila – Detection by Real-time Polymerase Chain Reaction, qualitative (Target region: MIP gene)	Nucleic acid extraction by EMAG, MagNA Pure 96 automated nucleic acid extraction system Method as documented in MP-OP-LegPn
	Sputum, non-sterile samples	*Mycobacterium tuberculosis* – Detection by Polymerase Chain Reaction and Real-time Polymerase Chain reaction, qualitative (Target region: IS6110)	Nucleic acid extraction by Cobas-AMPLICOR Respiratory Specimen Preparation Kit Method as documented in MP-OP-MTB

Hospital Authority - Hong Kong East Cluster, Department of Clinical Pathology
醫院管理局–港島東聯網臨床病理部
Molecular Laboratory: 1/F and 3/F, Pathology Block, PYNEH, 3 Lok Man Rd, Chai Wan, HK
香港柴灣樂民道三號東區尤德夫人那打素醫院病理學大樓一樓及三樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics (cont'd)	**Molecular Genetics (microbiology) (cont'd)** Respiratory samples	*Mycoplasma pneumoniae* – Detection by Real-time Polymerase Chain Reaction, qualitative (Target region: P1 gene)	Nucleic acid extraction by EMAG, MagNA Pure 96 automated nucleic acid extraction system Method as documented in MP-OP-MyPn
		Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) – detection by Reverse Transcription and Real-Time Polymerase Chain Reaction, qualitative (Target region: E gene and N2 gene)	Cepheid Xpress SARS-CoV-2 Assay Nucleic acid amplification and detection of SARS-CoV-2 Viral RNA in Cepheid GeneXpert System Method as documented in MP-OP-SARS-CoV-2-GX
		Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2), Influenza A Virus, Influenza B Virus and Respiratory Syncytial Virus (RSV) – detection by Reverse Transcription and Real-Time Polymerase Chain Reaction, qualitative (Target region: SARS-CoV-2: E gene, N2 and RdRP gene, Influenza A virus: M, PB2 and PA gene, Influenza B virus: M and NS gene, RSV: RSV A and RSV B nucleocapsid gene)	Cepheid Xpress SARS-CoV-2/Flu/RSV Assay *plus* Nucleic acid amplification and detection of SARS-CoV-2 / Flu/RSV Viral RNA in Cepheid GeneXpert System, Method as documented in MP-OP-SARS-CoV-2-GX
		Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2), Influenza A Virus, Influenza B Virus and Respiratory Syncytial Virus (RSV) – detection by Reverse Transcription and Real-Time Polymerase Chain Reaction, qualitative (Target region: SARS-CoV-2: E gene, N2, Influenza A virus: M, PB2 and PA gene, Influenza B virus: M and NS gene, RSV: RSV A and RSV B nucleocapsid gene)	Cepheid Xpress SARS-CoV-2/Flu/RSV Assay Nucleic acid amplification and detection of SARS-CoV-2 / Flu/RSV Viral RNA in Cepheid GeneXpert System, Method as documented in MP-OP-SARS-CoV-2-GX
		Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) – detection by Reverse Transcription and Real Time Polymerase Chain Reaction, qualitative (Target region: E gene and N gene)	LightMix® Kit SARS-CoV-2 E+N UBC Assay Nucleic acid extraction by EMAG, KingFisher Flex System, MagNA Pure 96 automated nucleic acid extraction system Nucleic acid amplification and detection using Roche LightCycler 480 II machine Method as documented in MP-OP-SARS-CoV-2-LC

Hospital Authority - Hong Kong East Cluster, Department of Clinical Pathology
醫院管理局–港島東聯網臨床病理部
Molecular Laboratory: 1/F and 3/F, Pathology Block, PYNEH, 3 Lok Man Rd, Chai Wan, HK
香港柴灣樂民道三號東區尤德夫人那打素醫院病理學大樓一樓及三樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics (cont'd)	**Molecular Genetics (microbiology) (cont'd)** Respiratory samples (cont'd)	Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) – detection by Reverse Transcription and Real Time Polymerase Chain Reaction, qualitative (Target region: Orf1ab gene and E gene)	Cobas 6800 System SARS CoV 2 Assay Method as documented in MP-OP-SARS-CoV-2-6800
	Upper respiratory samples	Multiple respiratory pathogens - Detection and identification by Multiplex Polymerase Chain Reaction, qualitative (Viruses) - Adenovirus - Coronavirus 229E - Coronavirus HKU1 - Coronavirus NL63 - Coronavirus OC43 - Middle East Respiratory Syndrome Coronavirus (MERS-CoV) - SARS-CoV-2 - Human metapneumovirus - Human rhinovirus /enterovirus - Influenza A virus - Influenza A virus / H1 - Influenza A virus / H3 - Influenza A virus / H1-2009 - Influenza B virus - Parainfluenza virus 1 - Parainfluenza virus 2 - Parainfluenza virus 3 - Parainfluenza virus 4 - Respiratory syncytial virus (Bacteria) - *Bordetella parapertussis* - *Bordetella pertussis* - *Chlamydia pneumoniae* - *Mycoplasma pneumoniae* (Target regions: proprietary) - - - -	BioFire Respiratory 2.1 (RP2.1 plus) Panel Method as documented in MP-OP-FARP2

Hospital Authority - Hong Kong East Cluster, Department of Clinical Pathology
醫院管理局–港島東聯網臨床病理部
Molecular Laboratory: 1/F and 3/F, Pathology Block, PYNEH, 3 Lok Man Rd, Chai Wan, HK
香港柴灣樂民道三號東區尤德夫人那打素醫院病理學大樓一樓及三樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics (cont'd)	**Molecular Genetics (microbiology) (cont'd)** Bronchoalveolar Lavage (BAL), sputum endotracheal aspirate (ETA)	Pneumonia pathogens – detection and Identification by Multiplex Polymerase Chain Reaction (Bacteria) - *Acinetobacter calcoaceticus-baumannii* complex - *Enterobacter cloacae* complex - *Escherichia coli* - *Haemophilus influenzae* - *Klebsiella aerogenes* - *Klebsiella oxytoca* - *Klebsiella pneumoniae* group - *Moraxella catarrhalis* - *Proteus* spp. - *Pseudomonas aeruginosa* - *Serratia marcescens* - *Staphylococcus aureus* - *Streptococcus agalactiae* - *Streptococcus pneumoniae* - *Streptococcus pyogenes* - *Chlamydia pneumoniae* - *Legionella pneumophila* - *Mycoplasma pneumoniae* (Viruses) - Adenovirus - Coronavirus - Human metapneumovirus - Human rhinovirus/enterovirus - Influenza A virus - Influenza B virus - Parainfluenza virus - Respiratory syncytial virus (Antimicrobial Resistance Genes) - Carbapenemases (IMP, KPC, NDM OXA-48-like, VIM) - ESBL (CTX-M) - Methicillin resistance (mecA/C and MERJ) (Target regions: proprietary)	BioFire FilmArray Pneumonia (PN) Panel plus Method as documented in MP-OP-FAPN

Hospital Authority - Hong Kong East Cluster, Department of Clinical Pathology
醫院管理局–港島東聯網臨床病理部
Molecular Laboratory: 1/F and 3/F, Pathology Block, PYNEH, 3 Lok Man Rd, Chai Wan, HK
香港柴灣樂民道三號東區尤德夫人那打素醫院病理學大樓一樓及三樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics (cont'd)	**Molecular Genetics (anatomical pathology)**		
	Histological and cytological specimen	Epidermal growth factor receptor (EGFR) Exons 18- 21 mutation by Real-time Polymerase Chain Reaction	therascreen® EGFR RGQ PCR Kit Method as documented in MP-OP-EGFR
		KRAS and NRAS genes Exons 2, 3, and 4 mutations by Real-time Polymerase Chain Reaction and Sanger sequencing	Idylla System using Idylla™ KRAS Mutation Assay and Idylla™ NRAS-BRAF Mutation Assay
	EDTA Blood	Epidermal growth factor receptor (EGFR) Exons 18- 21 mutation by Real-time Polymerase Chain Reaction	Roche Cobas Z480 using cobas® EGFR Mutation Test v2
	Molecular Genetics (haematology)		
	EDTA Blood	JAK2 V617F Mutation by Polymerase Chain Reaction	Method as documented in MP-OP-JAK2
		Alpha globin genotyping by Polymerase Chain Reaction	Method as documented in MP-OP-AT1 and MP-OP-AT2 and MP-OP-AT3

Hospital Authority - Hong Kong East Cluster, Department of Clinical Pathology
醫院管理局–港島東聯網臨床病理部
Molecular Laboratory: 1/F and 3/F, Pathology Block, PYNEH, 3 Lok Man Rd, Chai Wan, HK
香港柴灣樂民道三號東區尤德夫人那打素醫院病理學大樓一樓及三樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics (cont'd)	**Molecular Genetics (chemical pathology)** EDTA Blood	Nudix hydrolase 15 (NUDT15) gene mutation by Polymerase Chain Reaction and Sanger sequencing	Method as documented in MP-OP-TPMT/NUDT15
		ATP7B mutations in Wilson disease by Polymerase Chain Reaction (PCR) and Sanger sequencing (Target region: all coding exons)	Nucleic acid extraction as documented in MP-OP-NAExT-Bld Nucleic acid amplification and post amplification processing as documented in MP-OP-ATP7B
		Nudix hydrolase 15 (NUDT15) c.415C>T variant by - Amplification Refectory Mutation System Polymerase Chain Reaction (ARMS PCR) - Restriction Fragment Length Polymorphism (RFLP)	Nucleic acid extraction as documented in MP-OP-NAExT-Bld Nucleic acid amplification and post-amplification processing as documented in MP-OP-TPMT/NUDT15
		Thiopurine S- methyltransferase (TPMT) c.719A>G variant by - Amplification Refectory Mutation System Polymerase Chain Reaction (ARMS PCR) - Restriction Fragment Length Polymorphism (RFLP)	Nucleic acid extraction as documented in MP-OP-NAExT-Bld Nucleic acid amplification and post-amplification processing as documented in MP-OP-TPMT/NUDT15
		BRCA germline mutation detection by MLPA and Sanger Sequencing	Nucleic acid extraction as documented in MP-OP-NAExT-Bld Nucleic acid amplification and post-amplification processing as documented in MP-OP-BRCA-germ

Hospital Authority - Hong Kong East Cluster, Department of Clinical Pathology
醫院管理局–港島東聯網臨床病理部
Rapid Response Laboratory: LG1, RHTSK, 266 Queen's Road East, Wan Chai, HK
香港灣仔皇后大道東 266 號律敦治及鄧肇堅醫院地庫一層

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology	**Blood gases and Co-oximetry**		
	Heparinized whole blood	Blood Gas include:	
		- pCO_2 by	
		Potentiometry (pCO_2 Sensing Electrode)	Siemens RapidLab 1265 System
		- pH by	
		Potentiometry (Ion-Selective Electrode)	Siemens RapidLab 1265 System
		- pO_2 by	
		Polarography (Oxygen Sensing Amperometric Electrode)	Siemens RapidLab 1265 System
		- Bicarbonate by	
		Auto calculation	Siemens RapidLab 1265 System
		- Base Excess by	
		Auto calculation	Siemens RapidLab 1265 System
		- O_2 Saturation by	
		Auto calculation	Siemens RapidLab 1265 System
		Carboxyhaemoglobin by	
		Co-oximetry	Siemens RapidLab 1265 System
		Methaemoglobin by	
		Co-oximetry	Siemens RapidLab 1265 System
	General Chemistry		
	Heparinized plasma	Alanine Aminotransferase (ALT) by	
		Spectrophotometry	Abbott Architect c16000 System, ALT assay
		Albumin by	
		Spectrophotometry	Abbott Architect c16000 System, AlbBCG2 assay
		Alkaline Phosphatase (ALP) by	
		Spectrophotometry	Abbott Architect c16000 System, AlkP assay
	EDTA plasma	Ammonia by	
		Spectrophotometry	Abbott Architect c16000 System, Amm assay
	Heparinized plasma	Amylase by	
		Spectrophotometry	Abbott Architect c16000 System, AMY2 assay
		Bilirubin - Total by	
		Spectrophotometry	Abbott Architect c16000 System, BiliT assay

Hospital Authority - Hong Kong East Cluster, Department of Clinical Pathology
醫院管理局–港島東聯網臨床病理部
Rapid Response Laboratory: LG1, RHTSK, 266 Queen's Road East, Wan Chai, HK
香港灣仔皇后大道東 266 號律敦治及鄧肇堅醫院地庫一層

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**General Chemistry (cont'd)**		
	Heparinized plasma (cont'd)	Calcium by Spectrophotometry	Abbott Architect c16000 System, CaC assay
	Low heparinized whole blood	Calcium, ionized by Potentiometry (Ion-Selective Electrode)	Siemens RapidLab 1265 System
		Chloride by Potentiometry (Ion-Selective Electrode)	Abbott Architect c16000 System, Chloride assay
		Cholesterol by Spectrophotometry	Abbott Architect c16000 System, Chol2 assay
		Cholesterol – high density lipoproteins (HDL) by Spectrophotometry	Abbott Architect c16000 System, UHDL assay
		Creatine Kinase (CK) by Spectrophotometry	Abbott Architect c16000 System, CK assay
		Creatinine by Spectrophotometry	Abbott Architect c16000 System, Crea2 assay
		Estimated GFR by Calculation	Calculated from plasma creatinine
		Gamma Glutamyl Transpeptidase (GGT) by Spectrophotometry	Abbott Architect c16000 System, GGT2 assay
		Globulin by Calculation	Calculated from plasma Total Protein and Albumin
	Fluoride plasma, CSF	Glucose by Spectrophotometry	Abbott Architect c16000 System, GluC assay
	Heparinized plasma	Iron by Spectrophotometry	Abbott Architect c16000 System, Iron2 assay

Hospital Authority - Hong Kong East Cluster, Department of Clinical Pathology
醫院管理局–港島東聯網臨床病理部
Rapid Response Laboratory: LG1, RHTSK, 266 Queen's Road East, Wan Chai, HK
香港灣仔皇后大道東 266 號律敦治及鄧肇堅醫院地庫一層

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**General Chemistry (cont'd)**		
	Heparinized plasma (cont'd)	Iron Saturation by Calculation	Calculated from plasma Iron and TIBC
		Lactate dehydrogenase (LDH) by Spectrophotometry	Abbott Architect c16000 System, LDH2 assay
		LDL cholesterol by Calculation	Calculated from Cholesterol, HDL Cholesterol and Triglycerides
	Serum	Osmolality by Freezing Point Depression	A2O Advanced Automated Osmometer
	Heparinized plasma	Phosphate by Spectrophotometry	Abbott Architect c16000 System, Phos assay
		Potassium by Potentiometry (Ion-Selective Electrode)	Abbott Architect c16000 System, Potassium assay
		Protein, Total by Spectrophotometry	Abbott Architect c16000 System, TPRO2 assay
	CSF	Protein, Total by Spectrophotometry	Abbott Architect c16000 System, UPro assay
	Heparinized plasma	Sodium by Potentiometry (Ion-Selective Electrode)	Abbott Architect c16000 System, Sodium assay
		Total Iron Binding Capacity (TIBC) by Calculation	Calculated from plasma Iron and UIBC
		Triglycerides by Spectrophotometry	Abbott Architect c16000 System, Trig2 assay
		Troponin I by Immunoassay (Chemiluminescent label)	Abbott Architect *i*2000SR System, STAT hsTNI assay
		Unsaturated Iron Binding Capacity (UIBC) by Spectrophotometry	Abbott Architect c16000 System, UIBC assay

Hospital Authority - Hong Kong East Cluster, Department of Clinical Pathology
醫院管理局–港島東聯網臨床病理部
Rapid Response Laboratory: LG1, RHTSK, 266 Queen's Road East, Wan Chai, HK
香港灣仔皇后大道東 266 號律敦治及鄧肇堅醫院地庫一層

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**General Chemistry (cont'd)**		
	Heparinized plasma (cont'd)	Urate by Spectrophotometry	Abbott Architect c16000 System, Uric2 assay
		Urea by Spectrophotometry	Abbott Architect c16000 System, Urea2 assay
	Urine (spot, 24-hour)	Calcium by Spectrophotometry	Abbott Architect c16000 System, CaC assay
		Creatinine by Spectrophotometry	Abbott Architect c16000 System, Crea2 assay
	Urine (spot)	Osmolality by Freezing Point Depression	A2O Advanced Automated Osmometer
	Urine (spot, 24-hour)	Phosphate by Spectrophotometry	Abbott Architect c16000 System, Phos assay
		Potassium by Potentiometry (Ion-Selective Electrode)	Abbott Architect c16000 System, Potassium assay
		Protein, Total by Spectrophotometry	Abbott Architect c16000 System, UPro assay
		Sodium by Potentiometry (Ion-Selective Electrode)	Abbott Architect c16000 System, Sodium assay
		Urine Protein/Creatinine ratio by Calculation	Calculated from urine Protein and urine Creatinine
		Urate by Spectrophotometry	Abbott Architect c16000 System, Uric2 assay
		Urea by Spectrophotometry	Abbott Architect c16000 System, Urea2 assay
		Urine Urea/Creatinine ratio by Calculation	Calculated from urine Urea and urine Creatinine

Hospital Authority - Hong Kong East Cluster, Department of Clinical Pathology
醫院管理局–港島東聯網臨床病理部
Rapid Response Laboratory: LG1, RHTSK, 266 Queen's Road East, Wan Chai, HK
香港灣仔皇后大道東 266 號律敦治及鄧肇堅醫院地庫一層

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**Toxicology**		
	Heparinized plasma	Acetaminophen by	
		Spectrophotometry	Abbott Architect c16000 System, Aceta assay
		Ethanol by	
		Spectrophotometry	Abbott Architect c16000 System, EtohM assay
		Salicylate by	
		Spectrophotometry	Abbott Architect c16000 System, Sali assay

Hospital Authority - Hong Kong East Cluster, Department of Clinical Pathology
醫院管理局–港島東聯網臨床病理部
Rapid Response Laboratory: LG1, RHTSK, 266 Queen's Road East, Wan Chai, HK
香港灣仔皇后大道東 266 號律敦治及鄧肇堅醫院地庫一層

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology	**Coagulation**		
	Citrate blood	Coagulation studies, automated including - Prothrombin Time (PT) - Activated partial thromboplastin time (APTT)	ACL TOP 350
	Haematology – General		
	EDTA whole blood	Complete blood count including: - Haemoglobin - Haematocrit - Leucocyte count (WBC count) - Mean corpuscular volume (MCV) - Mean corpuscular haemoglobin concentration (MCHC) - Mean corpuscular haemoglobin (MCH) - Platelet count - Red cell count - Red cell distribution width (RDW) - Mean Platelet Volume (MPV)	Sysmex XN9100

Hospital Authority - Hong Kong East Cluster, Department of Clinical Pathology
醫院管理局–港島東聯網臨床病理部
Rapid Response Laboratory: LG1, RHTSK, 266 Queen's Road East, Wan Chai, HK
香港灣仔皇后大道東 266 號律敦治及鄧肇堅醫院地庫一層

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology (cont'd)	**Haematology – General (cont'd)**		
	EDTA whole blood (cont'd)	Leucocyte differential count by Automated method	Sysmex XN9100
		Peripheral blood smear examination by May – Grunwald Giemsa stain	Sysmex SP-50
		Reticulocyte count, automated by Polymethine dye	Sysmex XN9100
		Reticulocyte Count (Manual) by New Methylene Blue	Method as documented in RLRH 004
	Haematology – Special		
	EDTA marrow blood, aspirate, clot, trephine	Bone Marrow Examination	Method as documented in RLRH 004: Specimen preparation and routine staining as documented in RLRH 004 Marrow smear by May Grunwald – Giemsa and Perl's Prussian Blue stain Peripheral blood smear by May Grunwald– Giemsa or Wright – Giemsa stain
	EDTA whole blood	Malaria parasite examination by Thick and thin films	Specimen preparation and routine staining as documented in RLRH 004

Hospital Authority - Hong Kong East Cluster, Department of Clinical Pathology
醫院管理局–港島東聯網臨床病理部
Rapid Response Laboratory: LG1, RHTSK, 266 Queen's Road East, Wan Chai, HK
香港灣仔皇后大道東 266 號律敦治及鄧肇堅醫院地庫一層

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology (cont'd)	**Blood bank – General**		
	Clotted blood and EDTA blood	ABO and Rh(D) typing by Direct agglutination	Method as documented in BB-SOP-TEST
		ABO and Rh (D) typing by - Red Cell Agglutination, automated	Method as documented in BB-SOP-IH1000 using Bio-Rad IH1000
		Antibody screening by - Red Cell Agglutination, manual	Method as documented in BB-SOP-TEST using Bio-Rad reagents
		- Red Cell Agglutination, automated	Method as documented in BB-SOP-IH1000 using Bio-Rad IH1000
		- Saline-Indirect antiglobulin test	Method as documented in BB-SOP-TEST
		Crossmatch by - Computer crossmatch	Method as documented in BB-SOP-GLP and BB-SOP-TEST
		- Immediate spin	Method as documented in BB-SOP-GLP and BB-SOP-TEST
		- Saline-Indirect antiglobulin test	Method as documented in BB-SOP-TEST
		- Red Cell Agglutination, manual	Method as documented in BB-SOP-TEST using Bio-Rad reagents
		- Red Cell Agglutination, automated	Method as documented in BB-SOP-IH1000 using Bio-Rad IH1000
		Red cell phenotyping by - Rec Cell Agglutination, automated	Method as documented in BB-SOP-IH1000 using Bio-Rad IH1000
	Blood bank – Immunohaematology		
	EDTA Blood	Direct antiglobulin test (DAT) by - Conventional method	Method as documented in BB-SOP-TEST
		- Red Cell Agglutination, manual	Method as documented in BB-SOP-TEST using Bio-Rad reagents
	Blood bank – Special		
	Clotted blood and EDTA blood	Investigation of ABO Blood Group Anomaly	Method as documented in BB-SOP-GLP
		Transfusion reaction, including - ABO and Rh(D) typing	Method as documented in BB-SOP-GLP
		- Crossmatching	

Hospital Authority - Hong Kong East Cluster, Department of Clinical Pathology
醫院管理局–港島東聯網臨床病理部
Rapid Response Laboratory: LG1, RHTSK, 266 Queen's Road East, Wan Chai, HK
香港灣仔皇后大道東 266 號律敦治及鄧肇堅醫院地庫一層

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection	**Bacteriology – culture and sensitivity tests and/or microscopy**		
	CSF	Microscopy for	
		- Cell count by Counting chamber	Method as documented in CM-SOP-UMSCL
		- Microorganisms by Gram Stain	Method as documented in CM-SOP-STAIN
		- Encapulated yeast by India Ink Stain	Method as documented in CM-SOP-STAIN
	Mycobacteriology – Microscopy		
	CSF, Respiratory Specimens, Urine, Sterile Body Fluid, Tissue and Miscellaneous Specimens	Microscopy for acid fast bacilli (AFB) by	
		- Auramine O fluorescent stain, manual	Method as documented in CM-SOP-TB
		- Ziehl-Neelsen stain	
		- Auramine O fluorescent stain by Automated method	Märzhäuser Wetzlar SlideExpress 2 for Nikon Eclipse Ni-E
	Mycobacteriology – Culture		
	CSF, Respiratory Specimens, Urine Sterile Body Fluid, Tissue and Miscellaneous Specimens	Culture for acid fast bacilli (AFB) by Conventional method	Method as documented in CM-SOP-TB

Hospital Authority - Hong Kong East Cluster, Department of Clinical Pathology
醫院管理局–港島東聯網臨床病理部

Summary of Voluntary Suspension

.vs. denotes the examination for which accreditation has been voluntarily suspended with effect from 27 May 2025 (Notification Letter No. HOKLAS821P-49).

KingMed Diagnostics (Hong Kong) Limited
金域檢驗(香港)有限公司

ADDRESS **地址**	:	15/F, Rykadan Capital Tower, 135 Hoi Bun Road, Kwun Tong, Kowloon 九龍觀塘海濱道135號宏基資本大廈十五樓
ENQUIRY **查詢**	:	Mr MA Chiu-kit 馬超傑先生
TELEPHONE **電話**	:	(852) 2919 7222
FAX **傳真**	:	(852) 2997 0799
E-MAIL **電郵**	:	oliver.ma@kingmed.com.hk
WEBSITE ADDRESS **網址**		www.kingmed.com.hk
CLIENTELE **服務對象**	:	Private physicians, medical centres 私家醫生, 醫療中心

Contact details last updated on: 5 June 2023

KingMed Diagnostics (Hong Kong) Limited
金域檢驗(香港)有限公司

ADDRESS
地址

Main facility: 15/F, Rykadan Capital Tower, 135 Hoi Bun Road, Kwun Tong, Kowloon
九龍觀塘海濱道135號宏基資本大廈十五樓

Branch facility:

Central Branch: Room 302, 3/F, Prosperous Building, 48-52 Des Voeux Road, Central, Hong Kong
香港中環德輔道中48-52號裕昌大廈3樓302室

Collection Centres 樣本收集中心:

1. Room 607, 6/F, Capitol Centre, 5-19 Jardine's Bazaar, Causeway Bay, Hong Kong
香港銅鑼灣渣甸街5-19號京華中心6樓607室
2. Suite 1224, 12/F, Ocean Centre, 5 Canton Road, Tsim Sha Tsui, Kowloon, Hong Kong
香港九龍尖沙咀廣東道5號海洋中心12樓1224室
3. Room 805, 8/F, Office Tower One, Grand Plaza, 625 & 639 Nathan Road, Mong Kok, Kowloon, Hong Kong
香港九龍旺角彌敦道625及639號雅蘭中心辦公樓1期8樓805室
4. Room 813, 8/F, Nam Fung Centre, 264-298 Castle Peak Road, Tsuen Wan, N.T., Hong Kong
香港新界荃灣青山道264-298號南豐中心8樓813室

LABORATORY DIRECTOR
化驗所主管
: **Biomedical Scientist Director 醫務科學主管:**
Mr MA Chiu-kit
馬超傑先生
M.Sc., B.Sc.(Hons), MLT I (HK), CChem, FRSC, CSci

PATHOLOGIST IN CHARGE OF THE ACCREDITED DISCIPLINE
負責認可範疇的病理學專科醫生
: Chemical Pathology 化學病理學
Dr Morris TAI Hok-leung 戴學良醫生 (Consulting 諮詢)

ACCREDITED TEST CATEGORY
認可測試類別
: **Medical Testing 醫務化驗**

Chemical Pathology	化學病理學
Clinical Microbiology and Infection	臨床微生物學及傳染病
Haematology	血液學
Immunology	免疫學
Medical Genetics (Molecular Genetics)	醫學遺傳學 (分子遺傳學)

KingMed Diagnostics (Hong Kong) Limited
金域檢驗(香港)有限公司
15/F, Rykadan Capital Tower, 135 Hoi Bun Road, Kwun Tong, Kowloon
九龍觀塘海濱道 135 號宏基資本大廈十五樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology	**General Chemistry** Serum	Alanine Aminotransferase (ALT) by Spectrophotometry	Roche Cobas c702 system (ALTL) assay
		Albumin by Spectrophotometry	Roche Cobas c702 system (ALB2) assay
		Albumin/Globulin (A/G) Ratio by Calculation	Calculated from Albumin and Globulin as documented in 7.3.6-B-c01-ALB
		Alkaline Phosphatase (ALP) by Spectrophotometry	Roche Cobas c502 system (ALP2L) assay
		Amylase by Spectrophotometry	Roche Cobas c502 system (AMYL2) assay
		Aspartate Aminotransferase (AST) by Spectrophotometry	Roche Cobas c702 system (ASTL) assay
		Bilirubin, Direct (DBIL) by Spectrophotometry	Roche Cobas c702 system (BILD2) assay
		Bilirubin, Total (TBIL) by Spectrophotometry	Roche Cobas c702 system (BILT3) assay
		Bilirubin, Indirect by Calculation	Calculated from Bilirubin, Total and Bilirubin, Direct as documented in 7.3.6-B-c04-BIL-Dir
		Calcium by Spectrophotometry	Roche Cobas c502 system (CA2) assay
		Calcium (albumin adjusted) by Calculation	Calculated from Albumin and Calcium as documented in 7.3.6-C-c03-CA
		Chloride by Potentiometry	Roche Cobas ISE system (Cl) assay

KingMed Diagnostics (Hong Kong) Limited
金域檢驗(香港)有限公司
15/F, Rykadan Capital Tower, 135 Hoi Bun Road, Kwun Tong, Kowloon
九龍觀塘海濱道 135 號宏基資本大廈十五樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**General Chemistry** (cont'd) Serum (cont'd)	Cholesterol by Spectrophotometry	Roche Cobas c702 system (CHO2I) assay
		Cholesterol/HDL Ratio by Calculation	Calculated from Cholesterol and HDL as documented in 7.3.6-B-c08-Chol-HDL
		Cholesterol - low-density lipoprotein (LDL), Direct by Spectrophotometry	Roche Cobas c702 system (LDL_C) assay
		Cholesterol - low-density lipoprotein (LDL) by Calculation	Calculated from Cholesterol, HDL and Triglyceride as documented in 7.3.6-B-c09-Chol-LDL
		Cholesterol - high density lipoprotein (HDL) by Spectrophotometry	Roche Cobas c702 system (HDLC3) assay
		Creatine Kinase (CK) by Spectrophotometry	Roche Cobas c502 system (CK) assay
		Creatinine (CREA) by Spectrophotometry	Roche Cobas c502 system (CREJ2) assay
		Estimated Glomerular Filtration Rate (eGFR) by Calculation	Calculated from Creatinine as documented in 7.3.6-C-c05-CREA
		Gamma-Glutamyl Transferase (GGT) by Spectrophotometry	Roche Cobas c502 system (GGT-2) assay
		Globulin by Calculation	Calculated from Protein, Total and Albumin as documented in 7.3.6-B-c01-ALB

KingMed Diagnostics (Hong Kong) Limited
金域檢驗(香港)有限公司
15/F, Rykadan Capital Tower, 135 Hoi Bun Road, Kwun Tong, Kowloon
九龍觀塘海濱道 135 號宏基資本大廈十五樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**General Chemistry** (cont'd)		
	Fluoride Plasma	Glucose by Spectrophotometry	Roche Cobas c702 system (GLUC3) assay
	Serum	Iron by Spectrophotometry	Roche Cobas c502 system (IRON2) assay
		Lactate Dehydrogenase (LDH) by Spectrophotometry	Roche Cobas c502 system (LDHI2) assay
		Magnesium by Spectrophotometry	Roche Cobas c502 system (MG2) assay
	Fluoride Plasma	Oral Glucose Tolerance Test (OGTT) by Spectrophotometry	Roche Cobas c702 System (GLU3) assay Method as documented in 7.3.6-B-c11-GLU
	Serum	Phosphate by Spectrophotometry	Roche Cobas c502 system (PHOS2) assay
		Potassium by Potentiometry	Roche Cobas ISE system (K) assay
		Protein, Total by Spectrophotometry	Roche Cobas c702 system (TP2) assay
		Sodium by Potentiometry	Roche Cobas ISE system (Na) assay

KingMed Diagnostics (Hong Kong) Limited
金域檢驗(香港)有限公司
15/F, Rykadan Capital Tower, 135 Hoi Bun Road, Kwun Tong, Kowloon
九龍觀塘海濱道 135 號宏基資本大廈十五樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**General Chemistry** (cont'd)		
	Serum (cont'd)	Total iron-binding capacity (TIBC) by Calculation	Calculated from Iron and UIBC as documented in 7.3.6-C-c24-UIBC-TIBC
		Triglyceride (TRIG) by Spectrophotometry	Roche Cobas c702 system (TRIGL) assay
		Unsaturated iron-binding capacity (UIBC) by Spectrophotometry	Roche Cobas c502 system (UIBC) assay
		Urate by Spectrophotometry	Roche Cobas c702 system (UA2) assay
		Urea by Spectrophotometry	Roche Cobas c702 system (UREAL) assay
	Urine	Calcium by Spectrophotometry	Roche Cobas c502 system (CA2) assay
		Creatinine (CREA) by Spectrophotometry	Roche Cobas c502 system (CRJ2U) assay
		Creatinine Clearance by Calculation	Calculated from Creatinine as documented in 7.3.6-C-c05-CREA
		Chloride by Potentiometry	Roche Cobas ISE system (Cl) assay
		Microalbumin (MA) by Rate nephelometry	Roche Cobas c502 system (ALBU2) assay
		Microalbumin / Creatinine Ratio by Calculation	Calculated from Microalbumin and Creatinine as documented in 7.3.6-C-c22-MA
		Phosphate by Spectrophotometry	Roche Cobas c502 system (PHO2U) assay
		Potassium by Potentiometry	Roche Cobas ISE system (K) assay

KingMed Diagnostics (Hong Kong) Limited
金域檢驗(香港)有限公司
15/F, Rykadan Capital Tower, 135 Hoi Bun Road, Kwun Tong, Kowloon
九龍觀塘海濱道 135 號宏基資本大廈十五樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**General Chemistry** (cont'd)		
	Urine (cont'd)	Protein by Turbidimetry	Roche Cobas c502 system (TPU3) assay
		Protein / Creatinine Ratio by Calculation	Calculated from Protein and Creatinine as documented in 7.3.6-C-c12-UPRO
		Sodium by Potentiometry	Roche Cobas ISE system (Na) assay
		Urate by Spectrophotometry	Roche Cobas c702 system (UA2-U) assay
		Urea by Spectrophotometry	Roche Cobas c702 system (UREL-U) system
	Hormones		
	Serum	25 (Hydroxy) Vitamin D by Immunoassay (Chemiluminescent label)	Roche Cobas e602 system (Vitamin D total) assay
		Cortisol by Immunoassay (Chemiluminescent label)	Roche Cobas e602 system (Cortisol II) assay
		Beta-Human Chorionic Gonadotropin (β-HCG), Quantitative by Immunoassay (Chemiluminescent label)	Roche Cobas e602 system (BHCG) assay
		Estradiol (E2) by Immunoassay (Chemiluminescent label)	Roche Cobas e602 system (E2) assay
		Free Thyroxine Index (FTI) by Calculation	Calculated from T Uptake and T4 as documented in 7.3.6-D-i15-TUPT
		Follicle Stimulating Hormone (FSH) by Immunoassay (Chemiluminescent label)	Roche Cobas e602 system (FSH) assay
		Luteinizing Hormone (LH) by Immunoassay (Chemiluminescent label)	Roche Cobas e602 system (LH) assay

KingMed Diagnostics (Hong Kong) Limited
金域檢驗(香港)有限公司
15/F, Rykadan Capital Tower, 135 Hoi Bun Road, Kwun Tong, Kowloon
九龍觀塘海濱道 135 號宏基資本大廈十五樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**Hormones** (cont'd) Serum (cont'd)	Progesterone by Immunoassay (Chemiluminescent label)	Roche Cobas e602 system (PROG) assay
		Prolactin by Immunoassay (Chemiluminescent label)	Roche Cobas e602 system (PRL) assay
		Testosterone by Immunoassay (Chemiluminescent label)	Roche Cobas e602 system (TESTO) assay
		Thyroid Stimulating Hormone (TSH) by Immunoassay (Chemiluminescent label)	Roche Cobas e602 system (TSH) assay
		Thyroxine, Free (Free T4) by Immunoassay (Chemiluminescent label)	Roche Cobas e602 system (FT4 II) assay
		Thyroxine, Total (T4) by Immunoassay (Chemiluminescent label)	Roche Cobas e602 system (T4) assay
		Triiodothyronine, Free (Free T3) by Immunoassay (Chemiluminescent label)	Roche Cobas e602 system (FT3 III) assay
		Triiodothyronine, Total (T3) by Immunoassay (Chemiluminescent label)	Roche Cobas e602 system (T3) assay
		T-Uptake by Immunoassay (Chemiluminescent label)	Roche Cobas e602 system (T-uptake) assay
	Protein, quantitative analysis Serum	C-Reactive Protein (CRP) by Spectrophotometry	Roche Cobas c702 system (CRPL3) assay
		C-Reactive Protein (CRP), high sensitivity by Spectrophotometry	Roche Cobas c502 system (CRPHS) assay
		N-terminal pro b-type natriuretic peptide (NT-proBNP) by Immunoassay (Chemiluminescent label)	Roche Cobas e602 system (NT-proBNP) assay

KingMed Diagnostics (Hong Kong) Limited
金域檢驗(香港)有限公司
15/F, Rykadan Capital Tower, 135 Hoi Bun Road, Kwun Tong, Kowloon
九龍觀塘海濱道 135 號宏基資本大廈十五樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**Special Chemistry** Serum	Ferritin by Immunoassay (Chemiluminescent label)	Roche Cobas e602 system (Ferritin) assay
		Folic Acid by Immunoassay (Chemiluminescent label)	Roche Cobas e602 system (Folate III) assay
		Vitamin B12 by Immunoassay (Chemiluminescent label)	Roche Cobas e602 system (Vitamin B12 II) assay
	Stool	Faecal haemoglobin (Occult Blood) by Latex agglutination	HM-JACKarc Auto-Nephelometer
	Special Lipid Serum	Apolipoprotein A-1 by Spectrophotometry	Roche Cobas c502 system (APOAT) assay
		Apolipoprotein B by Spectrophotometry	Roche Cobas c502 system (APOBT) assay
		Apolipoprotein B/A1 Ratio by Calculation	Calculated from Apolipoprotein A-1 and Apolipoprotein B as documented in 7.3.6-C-c16-APB
	Tumour Markers Serum	Alpha-fetoprotein (AFP) by Immunoassay (Chemiluminescent label)	Roche Cobas e602 system (AFP) assay
		CA 15-3 by Immunoassay (Chemiluminescent label)	Roche Cobas e602 system (CA 15-3 II) assay
		CA 19-9 by Immunoassay (Chemiluminescent label)	Roche Cobas e602 system (CA 19-9) assay
		CA 125 by Immunoassay (Chemiluminescent label)	Roche Cobas e602 system (CA 125 II) assay
		Carcinoembryonic Antigen (CEA) by Immunoassay (Chemiluminescent label)	Roche Cobas e602 system (CEA) assay

KingMed Diagnostics (Hong Kong) Limited
金域檢驗(香港)有限公司
15/F, Rykadan Capital Tower, 135 Hoi Bun Road, Kwun Tong, Kowloon
九龍觀塘海濱道 135 號宏基資本大廈十五樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**Tumour Markers (cont'd)** Serum (cont'd)	Prostate Specific Antigen, Free (Free PSA) by Immunoassay (Chemiluminescent label)	Roche Cobas e602 system (Free PSA) assay
		Prostate Specific Antigen, Total (Total PSA) Immunoassay (Chemiluminescent label)	Roche Cobas e602 system (Total PSA) assay
		Prostate Specific Antigen, Free / Total ratio by Calculation	Calculated from Free PSA and Total PSA as documented in 7.3.6-D-i08-FPSA
		Thyroglobulin (Tg) by Immunoassay (Chemiluminescent label)	Roche Cobas e602 system (Thyroglobulin) assay

KingMed Diagnostics (Hong Kong) Limited
金域檢驗(香港)有限公司
15/F, Rykadan Capital Tower, 135 Hoi Bun Road, Kwun Tong, Kowloon
九龍觀塘海濱道 135 號宏基資本大廈十五樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Immunology	**Autoantibodies**		
	Serum	Anti-Thyroglobulin (Anti-Tg) by Immunoassay (Chemiluminescent label)	Roche Cobas e602 system (Anti-Tg) assay
		Anti-Thyroid Peroxidase (Anti-TPO) by Immunoassay (Chemiluminescent label)	Roche Cobase602 system (Anti-TPO) assay
		Rheumatoid Factor (RF) by Spectrophotometry	Roche Cobas c502 system (RF-II) assay
	Immunochemistry		
	Serum	Complement C3 (C3) by Spectrophotometry	Roche Cobas c502 system (C3C-2) assay
		Complement C4 (C4) by Spectrophotometry	Roche Cobas c502 system (C4-2) assay
		Immunoglobulin A (IgA) by Spectrophotometry	Roche Cobas c502 system (IGA-2) assay
		Immunoglobulin E (IgE), Total by Immunoassay (Chemiluminescent label)	Roche Cobas e602 system (IgE) assay
		Immunoglobulin G (IgG) by Spectrophotometry	Roche Cobas c502 system (IGG-2) assay
		Immunoglobulin M (IgM) by Spectrophotometry	Roche Cobas c502 system (IGM-2) assay

KingMed Diagnostics (Hong Kong) Limited
金域檢驗(香港)有限公司
15/F, Rykadan Capital Tower, 135 Hoi Bun Road, Kwun Tong, Kowloon
九龍觀塘海濱道 135 號宏基資本大廈十五樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Clinical Microbiology and Infection	**Urinalysis and/or urine microscopy** Urine	Urinalysis by Dipstick method, including: - Bilirubin - Blood - Glucose - Ketone - Leucocytes - Nitrite - pH - Protein - Specific gravity - Urobilinogen	Sysmex UC-3500 Automated Urine Chemistry Analyser Method as documented in 7.3.6-KB
		Urine formed elements by - Automated method - Microscopic examination with fixed volume in microtitre plate well	Sysmex UF-4000 Urine Sediment Analyser Method as documented in 7.3.6-KA

KingMed Diagnostics (Hong Kong) Limited
金域檢驗(香港)有限公司
15/F, Rykadan Capital Tower, 135 Hoi Bun Road, Kwun Tong, Kowloon
九龍觀塘海濱道 135 號宏基資本大廈十五樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Clinical Microbiology and Infection	**Syphilis serology** Serum	*Treponema pallidum* (TP) Antibody for Syphilis by Immunoassay (Chemiluminescent label)	Roche Cobas e801 system (Syphilis) assay
	Virology – Serology Serum	Hepatitis A virus antibody, Total (HAVT) by Immunoassay (Chemiluminescent label)	Roche Cobas e801 system (Anti-HAV II) assay
		Hepatitis B virus antibody, anti-HBs by Immunoassay (Chemiluminescent label)	Roche Cobas e801 system (Anti-HBs II) assay
		Hepatitis B virus e-antigen (HBeAg) by Immunoassay (Chemiluminescent label)	Roche Cobas e602 system (HBeAg) assay
		Hepatitis B virus surface antigen (HBsAg), qualitative by Immunoassay (Chemiluminescent label)	Roche Cobas e801 system (HBsAg II) assay
		Lateral flow chromatographic immunoassay	Alere Determine HBsAg 2 Test Method as documented in 7.3.6-D-App1
		Confirmatory neutralisation immunoassay	Roche Cobas e801 Method as documented in 7.3.6-E-03-HBsAg II C
		Hepatitis B virus surface antigen (HBsAg), quantitative by Immunoassay (Chemiluminescent label)	Roche Cobas e602 system (HBsAg II quant II) assay
		Hepatitis C virus antibody by Immunoassay (Chemiluminescent label)	Roche Cobas e801 system (Anti-HCV II) assay
		Human immunodeficiency virus (HIV)I p24 antigen/HIV I and II antibody by Immunoassay (Chemiluminescent label)	Roche Cobas e801 system (HIV Duo) assay
		Rubella virus antibody, IgG by Immunoassay (Chemiluminescent label)	Roche Cobas e801 system (Rubella IgG) assay
		Severe Acute Respiratory Syndrome (SARS-CoV-2) Total Antibody by Immunoassay (Chemiluminescent label)	Roche cobas e801 System Anti-SARS-CoV-2 Quant assay

KingMed Diagnostics (Hong Kong) Limited
金域檢驗(香港)有限公司
15/F, Rykadan Capital Tower, 135 Hoi Bun Road, Kwun Tong, Kowloon
九龍觀塘海濱道 135 號宏基資本大廈十五樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Haematology	**Coagulation**		
	Citrated plasma	Coagulation studies, automated including: - Activated Partial Thromboplastin Time (APTT) - Prothrombin Time (PT)	Sysmex CS-1600 System
		International Normalised Ratio (INR) by Calculation	Calculated from Prothrombin Time as documented in 7.3.6-L-01- PT
	Haematology – General		
	EDTA whole blood	Complete blood count including: - Red cell count - Platelet count - Haemoglobin - Haematocrit (HCT) - Mean corpuscular volume (MCV) - Mean corpuscular haemoglobin (MCH) - Mean corpuscular haemoglobin concentration (MCHC) - Red cell distribution width (RDW) - White cell count	Automated system : Sysmex XN-3100
		Leucocyte differential count, automated	Sysmex XN-3100
		Peripheral blood smear examination by Wright stain	Method as documented in 7.3.6-N-App2
		Reticulocyte count, automated	Sysmex XN-3100
	EDTA Plasma	Erythrocyte Sedimentation Rate (ESR) by Microphotometrical capillary stopped flow kinetic analysis	Alifax TEST1

KingMed Diagnostics (Hong Kong) Limited
金域檢驗(香港)有限公司
15/F, Rykadan Capital Tower, 135 Hoi Bun Road, Kwun Tong, Kowloon
九龍觀塘海濱道 135 號宏基資本大廈十五樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Haematology	**Haematology – Special** EDTA whole blood	Haemoglobin A1c (HbA1c) by High performance liquid chromatography	TOSOH HLC-723 G11 automated HPLC testing system
		Mean Blood Glucose (MBG) by Calculation	Calculated from HbA1c as documented in 7.3.6-M-App1
	Haematology – Immunohaematology Clotted blood and EDTA whole blood or cord blood	ABO and Rh(D) Typing by Red Cell Agglutination (Manual)	Method as documented in 7.3.6-Q-02-ABO & Rh Typing
	EDTA whole blood	ABO and Rh(D) Typing by Red Cell Agglutination (Automated)	BioRad IH-500

KingMed Diagnostics (Hong Kong) Limited
金域檢驗(香港)有限公司
15/F, Rykadan Capital Tower, 135 Hoi Bun Road, Kwun Tong, Kowloon
九龍觀塘海濱道 135 號宏基資本大廈十五樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Medical Genetics	**Molecular Genetics (Microbiology)** Urine, male and female genital swabs	*Chlamydia trachomatis* (CT) - detection by Real-Time Polymerase Chain Reaction, qualitative (Target region: Cryptic plasmid)	Nucleic acid extraction by Sansure Sample Release Reagent Nucleic acid amplification and detection by Sansure CT/UU/NG DNA Diagnostic Kit as documented in 7.3.6-I-01-CT_NG DNA
		Neisseria Gonorrhoeae (NG) - detection by Real-Time Polymerase Chain Reaction, qualitative (Target region: Cryptic plasmid)	Nucleic acid extraction by Sansure Sample Release Reagent Nucleic acid amplification and detection by Sansure CT/UU/NG DNA Diagnostic Kit as documented in 7.3.6-I-01-CT_NG DNA

KingMed Diagnostics (Hong Kong) Limited
金域檢驗(香港)有限公司
Room 302, 3/F, Prosperous Building, 48-52 Des Voeux Road, Central, Hong Kong
香港中環德輔道中 48-52 號裕昌大廈 3 樓 302 室

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology	**Hormones** Serum	Beta-Human Chorionic Gonadotropin (β-HCG), Quantitative by Immunoassay (Chemiluminescent label)	Roche Cobas e601 system (BHCG) assay
		Estradiol (E2) by Immunoassay (Chemiluminescent label)	Roche Cobas e601 system (E2) assay
		Follicle Stimulating Hormone (FSH) by Immunoassay (Chemiluminescent label)	Roche Cobas e601 system (FSH) assay
		Luteinizing Hormone (LH) by Immunoassay (Chemiluminescent label)	Roche Cobas e601 system (LH) assay
		Progesterone by Immunoassay (Chemiluminescent label)	Roche Cobas e601 system (PROG) assay
		Prolactin by Immunoassay (Chemiluminescent label)	Roche Cobas e601 system (PRL) assay
		Testosterone by Immunoassay (Chemiluminescent label)	Roche Cobas e601 system (TESTO) assay

KingMed Diagnostics (Hong Kong) Limited
金域檢驗(香港)有限公司
Room 302, 3/F, Prosperous Building, 48-52 Des Voeux Road, Central, Hong Kong
香港中環德輔道中 48-52 號裕昌大廈 3 樓 302 室

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Haematology	**Coagulation**		
	Citrated plasma	Coagulation studies, automated including: - Prothrombin Time (PT)	Sysmex CA-600 System
	Haematology - General		
	EDTA whole blood	Complete blood count including: - Red cell count - Platelet count - Haemoglobin - Haematocrit (HCT) - Mean corpuscular volume (MCV) - Mean corpuscular haemoglobin (MCH) - Mean corpuscular haemoglobin concentration (MCHC) - Red cell distribution width (RDW) - White cell count	Automated system: Sysmex XN-350
		Leucocyte differential count, automated	Sysmex XN-350

Onco Medical Laboratory Ltd.
安球醫學化驗所有限公司

ADDRESS **地址**	:	Room 2910, Trendy Centre, 682 Castle Peak Road, Lai Chi Kok, Kowloon 九龍荔枝角青山道 682 號潮流工貿中心 29 樓 10 室
ENQUIRY **查詢**	:	Mr CHEUNG Ho-one 張皓雲先生
TELEPHONE **電話**	:	2783 8213
FAX **傳真**	:	3520 1216
E-MAIL **電郵**	:	one@onco.com.hk
WEBSITE ADDRESS **網址**	:	http://www.onco.com.hk
CLIENTELE **服務對象**	:	Private physicians, medical centre, private and public hospitals, and pathology and healthcare related institutes 私家醫生,醫療中心,私營及公營醫院和與病理及保健有關的機構

Onco Medical Laboratory Ltd.
安球醫學化驗所有限公司

ADDRESS
地址

Main facility : Room 2910, Trendy Centre, 682 Castle Peak Road, Lai Chi Kok, Kowloon
九龍荔枝角青山道 682 號潮流工貿中心 29 樓 10 室

LABORATORY DIRECTOR
化驗所主管 : **Biomedical Scientist Director 醫務科學主管:**
Mr Stephen TSANG Chun-ho
曾晉浩先生
BSc, Reg Part I MLT (HK)

PATHOLOGIST IN CHARGE OF THE ACCREDITED DISCIPLINE
負責認可範疇的病理學專科醫生 : Anatomical Pathology
解剖病理學

Dr NG Wai-kuen (Consulting 諮詢)
吳偉權醫生

ACCREDITED TEST CATEGORY
認可測試類別 : **Medical Testing 醫務化驗**
Anatomical Pathology 解剖病理學

Onco Medical Laboratory Ltd.
安球醫學化驗所有限公司
Cytology Laboratory: Room 2906 and Room 2910, Trendy Centre, 682 Castle Peak Road, Lai Chi Kok, Kowloon
九龍荔枝角青山道 682 號潮流工貿中心 29 樓 06 室及 10 室

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology	**Cytopathology** Gynaecological specimens	Gynaecological cytology examination by Manual method	Specimen preparation and staining (manual method): Method as documented in SOP-1003 BD SurePath Pap test + Papanicolaou staining

Seventh- Day Adventist Corporation (HK) Limited - Clinical Laboratories, Adventist Health
基督復臨安息日會(香港)有限公司 – 港安臨床化驗室

ADDRESS : 1/F, Main Block, Hong Kong Adventist Hospital – Tsuen Wan, 199 Tsuen King Circuit, Tsuen Wan, New Territories, Hong Kong
地址

ENQUIRY : Mr WONG Kwok-keung
查詢 黃國強先生

TELEPHONE : 2275 6166
電話

FAX : 2275 6164
傳真

E-MAIL : ben.wong@hkah.org.hk
電郵

WEBSITE ADDRESS : www.hkah.org.hk ; www.twah.org.hk
網址

CLIENTELE : Private hospitals and clinics
服務對象 私營醫院和診所

Seventh-Day Adventist Corporation (HK) Limited - Clinical Laboratories, Adventist Health
基督復臨安息日會(香港)有限公司 - 港安臨床化驗室

ADDRESS :
地址

Main Facility
Clinical Laboratory and Pathology Department
1/F, Main Block, Hong Kong Adventist Hospital – Tsuen Wan, 199 Tsuen King Circuit, Tsuen Wan, New Territories, Hong Kong
病理化驗中心
香港新界荃灣荃景圍 199 號荃灣港安醫院主座一樓

Branch Facility
Clinical Laboratory
7/F, 40 Stubbs Road, Hong Kong Adventist Hospital, Hong Kong
醫學化驗室
香港司徒拔道40號香港港安醫院七樓

LABORATORY DIRECTOR
化驗所主管 : **Biomedical Scientist Director 醫務科學主管:**
Dr Stanley LEUNG Wai-ming
梁偉明博士
PhD, MSc, MBA, BSc, Reg Part I MLT

ACCREDITED TEST CATEGORY
認可測試類別 : **Medical Testing**
醫務化驗

Chemical Pathology	化學病理學
Clinical Microbiology and Infection	臨床微生物學及傳染病
Haematology	血液學
Immunology	免疫學
Medical Genetics (Molecular Genetics)	醫學遺傳學 (分子遺傳學)

Seventh-Day Adventist Corporation (HK) Limited - Clinical Laboratories, Adventist Health
基督復臨安息日會(香港)有限公司 – 港安臨床化驗室
Main Facility: 1/F, Main Block, Hong Kong Adventist Hospital – Tsuen Wan, 199 Tsuen King Circuit, Tsuen Wan, NT, HK.
香港新界荃灣荃景圍199號荃灣港安醫院主座一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology	**Blood gases and co-oximetry** Whole blood	Blood Gas include: pCO_2 by Potentiometry (pCO_2-sensing electrode)	Instrumentation Laboratory GEM Premier 3000 & 3500 Blood Gas Analyser
		pH by Potentiometry (Ion-Selective Electrode)	Instrumentation Laboratory GEM Premier 3000 & 3500 Blood Gas Analyser
		pO_2 by Potentiometry (Oxygen – Sensing Electrode)	Instrumentation Laboratory GEM Premier 3000 & 3500 Blood Gas Analyser
		Base Excess by Calculation	Instrumentation Laboratory GEM Premier 3000 & 3500 Blood Gas Analyser
		Bicarbonate by Calculation	Instrumentation Laboratory GEM Premier 3000 & 3500 Blood Gas Analyser
		O_2 Saturation by Calculation	Instrumentation Laboratory GEM Premier 3000 & 3500 Blood Gas Analyser

Seventh-Day Adventist Corporation (HK) Limited - Clinical Laboratories, Adventist Health
基督復臨安息日會(香港)有限公司 – 港安臨床化驗室
Main Facility: 1/F, Main Block, Hong Kong Adventist Hospital – Tsuen Wan, 199 Tsuen King Circuit, Tsuen Wan, NT, HK.
香港新界荃灣荃景圍199號荃灣港安醫院主座一樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology (cont'd)	**Drug of abuse testing** Urine	Amphetamine, qualitative by Immunoassay (Fluorescent label)	The Triage® TOX Drug Screen, Biosite Incorporated
		Acetaminophen/Paracetamol by Immunoassay (Fluorescent label)	The Triage® TOX Drug Screen, Biosite Incorporated
		Barbiturates, qualitative by Immunoassay (Fluorescent label)	The Triage® TOX Drug Screen, Biosite Incorporated
		Benzodiazepines, qualitative by Immunoassay (Fluorescent label)	The Triage® TOX Drug Screen, Biosite Incorporated
		Cannobinoides (THC), qualitative by Immunoassay (Fluorescent label)	The Triage® TOX Drug Screen, Biosite Incorporated
		Cocaine, qualitative by Immunoassay (Fluorescent label)	The Triage® TOX Drug Screen, Biosite Incorporated
		Ketamine, qualitative by One-step lateral flow chromatography	Drug Screen Urine Test kit, ABON Multi-Line Screen Test Device
		Methadone, qualitative by Immunoassay (Fluorescent label)	The Triage® TOX Drug Screen, Biosite Incorporated
		Methamphetamines by Immunoassay (Fluorescent label)	The Triage® TOX Drug Screen, Biosite Incorporated
		Nicotine, qualitative by One-step lateral flow chromatography	Drug Screen Urine Test kit, ABON Multi-Line Screen Test Device
		Opiates, qualitative by Immunoassay (Fluorescent label)	The Triage® TOX Drug Screen, Biosite Incorporated
		Phencyclidine (PCP), qualitative by Immunoassay (Fluorescent label)	The Triage® TOX Drug Screen, Biosite Incorporated
		Tricyclic Antidepressants by Immunoassay (Fluorescent label)	The Triage® TOX Drug Screen, Biosite Incorporated
		Urine Temperature by Direct measurement	Method as documented in CLAB/CHEM/SOP/TOXDS

Seventh-Day Adventist Corporation (HK) Limited - Clinical Laboratories, Adventist Health
基督復臨安息日會(香港)有限公司 – 港安臨床化驗室
Main Facility: 1/F, Main Block, Hong Kong Adventist Hospital – Tsuen Wan, 199 Tsuen King Circuit, Tsuen Wan, NT, HK.
香港新界荃灣荃景圍199號荃灣港安醫院主座一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology (cont'd)	**General chemistry** Serum	Albumin by Spectrophotometry	Roche Cobas 8000 System, ALB2 assay
		A/G ratio by Calculation	Roche Cobas 8000 System (calculated from serum albumin and serum globulin)
		Alkaline Phosphatase (ALP) by Spectrophotometry	Roche Cobas 8000 System, ALP2 assay
		Alanine Aminotransferase (ALT) by Spectrophotometry	Roche Cobas 8000 System, ALT assay
		Amylase by Spectrophotometry	Roche Cobas 8000 System, AMYL2 assay
		Aspartate Aminotransferase (AST) by Spectrophotometry	Roche Cobas 8000 System, AST assay
		Bilirubin, Direct by Spectrophotometry	Roche Cobas 8000 System, BILD2 assay
		Bilirubin, Total by Spectrophotometry	Roche Cobas 8000 System, BILT3 assay
		Bilirubin, Indirect by Calculation	Roche Cobas 8000 System (calculated from serum Bilirubin, Total and serum Bilirubin, Direct)
		Calcium by Spectrophotometry	Roche Cobas 8000 System, CA2 assay
		Corrected calcium by Calculation	Roche Cobas 8000 System (calculated from serum Albumin and serum Calcium)
		Cholesterol High Density Lipoprotein (HDL) by Spectrophotometry	Roche Cobas 8000 System, HDLC4 assay
		Cholesterol Low Density Lipoprotein (LDL) by Spectrophotometry	Roche Cobas 8000 System, LDLC3 assay

Seventh-Day Adventist Corporation (HK) Limited - Clinical Laboratories, Adventist Health
基督復臨安息日會(香港)有限公司 – 港安臨床化驗室
Main Facility: 1/F, Main Block, Hong Kong Adventist Hospital – Tsuen Wan, 199 Tsuen King Circuit, Tsuen Wan, NT, HK.
香港新界荃灣荃景圍199號荃灣港安醫院主座一樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology (cont'd)	**General chemistry (cont'd)** Serum (cont'd)	Cholesterol, non HDL-C by Calculation	Roche Cobas 8000 System (calculated from serum Cholesterol, Total and serum HDL)
		Cholesterol, Total by Spectrophotometry	Roche Cobas 8000 System, CHOL2 assay
		Cholesterol/HDL ratio by Calculation	Roche Cobas 8000 System (calculated from serum Cholesterol, Total and serum HDL)
		Creatine Kinase (CK) by Spectrophotometry	Roche Cobas 8000 System, CK assay
		CK-MB isoenzyme (CK-MB) by Immunoassay (Chemiluminescent label)	Abbott Alinity i System, CK-MB assay
		Creatinine by Spectrophotometry	Roche Cobas 8000 System, CREJ2 assay
		Creatinine clearance by Calculation	Roche Cobas 8000 System (calculated from serum creatinine, 24 hours urine volume, urine creatinine and body surface area)
		Estimated Glomerular Filtration Rate (eGFR) by Calculation	Roche Cobas 8000 System (calculated from creatinine using Modification of Diet in Renal Disease (MDRD) Study equation)
		γ Glutamyl Transferase (GGT) by Spectrophotometry	Roche Cobas 8000 System, GGT2 assay
		Globulin by Calculation	Roche Cobas 8000 System (calculated from Serum Protein, Total and serum Albumin)

Seventh-Day Adventist Corporation (HK) Limited - Clinical Laboratories, Adventist Health
基督復臨安息日會(香港)有限公司 – 港安臨床化驗室
Main Facility: 1/F, Main Block, Hong Kong Adventist Hospital – Tsuen Wan, 199 Tsuen King Circuit, Tsuen Wan, NT, HK.
香港新界荃灣荃景圍199號荃灣港安醫院主座一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology (cont'd)	**General chemistry (cont'd)**		
	Serum (cont'd)	Glucose by Spectrophotometry	Roche Cobas 8000 System, GLUC3 assay
		Lactate Dehydrogenase (LDH) by Spectrophotometry	Roche Cobas 8000 System, LDHI2 assay
		Oral Glucose Tolerance Test (OGTT) by Spectrophotometry	Roche Cobas 8000 System, GLUC3 assay
	Serum or urine	Osmolality by Freezing point	Advanced Instrument Osmometer 3320
	Serum	Phosphate by Spectrophotometry	Roche Cobas 8000 System, PHOS2 assay
		Potassium by Potentiometry (Ion Selective Electrode)	Roche Cobas 8000 System, ISE-K assay
		Protein, Total by Spectrophotometry	Roche Cobas 8000 System, TP2 assay
		Sodium by Potentiometry (Ion Selective Electrode)	Roche Cobas 8000 System, ISE-NA assay
		Triglyceride by Spectrophotometry	Roche Cobas 8000 System, TRIGL assay
		Troponin I by Immunoassay (Chemiluminescent label)	Abbott Alinity i System, Troponin I assay
		Uric acid by Spectrophotometry	Roche Cobas 8000 System, UA2 assay
		Urea by Spectrophotometry	Roche Cobas 8000 System, UREAL assay

Seventh-Day Adventist Corporation (HK) Limited - Clinical Laboratories, Adventist Health
基督復臨安息日會(香港)有限公司 – 港安臨床化驗室
Main Facility: 1/F, Main Block, Hong Kong Adventist Hospital – Tsuen Wan, 199 Tsuen King Circuit, Tsuen Wan, NT, HK.
香港新界荃灣荃景圍199號荃灣港安醫院主座一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology (cont'd)	**General chemistry (cont'd)**		
	Urine (spot and 24 hours)	Albumin by Spectrophotometry	Roche Cobas 8000 System, ALBT2 assay
		Albumin/Creatinine ratio by Calculation	Roche Cobas 8000 System (calculated from urine Albumin and urine Creatinine)
		Creatinine by Spectrophotometry	Roche Cobas 8000 System, CREJ2 assay
		Creatinine clearance by Calculation	Roche Cobas 8000 System (calculated from serum creatinine, 24 hours urine volume, urine creatinine and body surface area)
		Potassium by Potentiometry (Ion Selective Electrode)	Roche Cobas 8000 System, ISE-K assay
		Protein by Spectrophotometry	Roche Cobas 8000 System, TPUC3 assay
		Protein/Creatinine ratio by Calculation	Roche Cobas 8000 System (calculated from urine Protein and urine Creatinine)
		Sodium by Potentiometry (Ion Selective Electrode)	Roche Cobas 8000 System, ISE-NA assay
	Heavy metals and trace elements		
	Whole blood	Lead by Electrochemistry (Anodic Stripping Voltammetry)	Magellan Diagnostics LeadCare Plus System

Seventh-Day Adventist Corporation (HK) Limited - Clinical Laboratories, Adventist Health
基督復臨安息日會(香港)有限公司 – 港安臨床化驗室
Main Facility: 1/F, Main Block, Hong Kong Adventist Hospital – Tsuen Wan, 199 Tsuen King Circuit, Tsuen Wan, NT, HK.
香港新界荃灣荃景圍199號荃灣港安醫院主座一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology (cont'd)	**Hormones** Serum	Follicle stimulating hormone (FSH) by Immunoassay (Chemiluminescent label)	Roche Cobas 8000 System, Elecsys FSH assay
		Free Thyroxine Index (FTI) by Calculation	Calculated from Cobas 8000 Elecsys T4 and Cobas 8000 Elecsys T-uptake assay
		Luteinizing hormone (LH) by Immunoassay (Chemiluminescent label)	Roche Cobas 8000 System, Elecsys LH assay
		Prolactin by Immunoassay (Chemiluminescent label)	Roche Cobas 8000 System, Elecsys Prolactin II assay
		T-uptake by Immunoassay (Chemiluminescent label)	Roche Cobas 8000 System, Elecsys T-uptake assay
		Triiodothyronine (T3), Free by Immunoassay (Chemiluminescent label)	Roche Cobas 8000 System, ElecsysFT3 III assay
		Thyroxine (T4), Free by Immunoassay (Chemiluminescent label)	Roche Cobas 8000 System, Elecsys FT4 IV assay
		Thyroxine (T4), Total by Immunoassay (Chemiluminescent label)	Roche Cobas 8000 System, Elecsys T4 assay
		Thyroid Stimulating Hormone (TSH) by Immunoassay (Chemiluminescent label)	Roche Cobas 8000 System, Elecsys TSH assay
	Protein, quantitative analysis Serum	C-reactive protein by Immunoturbidimetry	Roche Cobas 8000 System, CRP4 assay

Seventh-Day Adventist Corporation (HK) Limited - Clinical Laboratories, Adventist Health
基督復臨安息日會(香港)有限公司 – 港安臨床化驗室
Main Facility: 1/F, Main Block, Hong Kong Adventist Hospital – Tsuen Wan, 199 Tsuen King Circuit, Tsuen Wan, NT, HK.
香港新界荃灣荃景圍199號荃灣港安醫院主座一樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology (cont'd)	**Special chemistry**		
	EDTA whole blood	Haemoglobin A1c (HbA1c) by	
		Ion exchange high performance liquid	Bio-Rad D-100 Haemoglobin Testing System
	Stool	Fecal Occult Blood by	
		Latex agglutination immunoturbidimetry	OC-SENSOR io Automated Fecal Occult Blood Test Analyser OC-SENSOR DIANA Latex Reagent OC-SENSOR PLEDIA Automated Fecal Occult Blood Test Analyser OC-SENSOR DIANA Latex Reagent
	Tumour markers		
	Serum	Alpha-feto Protein (AFP) by	
		Immunoassay (Chemiluminescent label)	Roche Cobas 8000 System, Elecsys AFP assay
.		CA 15.3 by	
		Immunoassay (Chemiluminescent label)	Roche Cobas 8000 System, Elecsys CA15.3 II assay
		CA 19.9 by	
		Immunoassay (Chemiluminescent label)	Roche Cobas 8000 System, Elecsys CA19.9 assay
		CA 72.4 by	
		Immunoassay (Chemiluminescent label)	Roche Cobas 8000 System, Elecsys CA72.4 assay
		CA125 by	
		Immunoassay (Chemiluminescent label)	Roche Cobas 8000 System, Elecsys CA125 II assay
		Carcinoembryonic Antigen (CEA) by	
		Immunoassay (Chemiluminescent label)	Roche Cobas 8000 System, Elecsys CEA assay
		Human Chorionic Gonadotropin (HCG), β by	
		Immunoassay (Chemiluminescent label)	Abbott Alinity i System Total β hCG assay
		Prostate Specific Antigen (PSA), Total by	
		Immunoassay (Chemiluminescent label)	Beckman Coulter Access 2 System PSA assay Abbott Alinity i System Total PSA assay
		Prostate Specific Antigen, Free (FPSA) by	
		Immunoassay (Chemiluminescent label)	Beckman Coulter Access 2 System, FPSA assay
		Precursor Prostate Specific Antigen Isoform [-2] (p2PSA) by	
		Immunoassay (Chemiluminescent label)	Beckman Coulter Access 2 System, p2PSA assay

Seventh-Day Adventist Corporation (HK) Limited - Clinical Laboratories, Adventist Health
基督復臨安息日會(香港)有限公司 – 港安臨床化驗室
Main Facility: 1/F, Main Block, Hong Kong Adventist Hospital – Tsuen Wan, 199 Tsuen King Circuit, Tsuen Wan, NT, HK.
香港新界荃灣荃景圍199號荃灣港安醫院主座一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Immunology	**Autoantibodies**		
	Serum	Anti-dsDNA antibody by Fluoroenzymeimmunoassay	Phadia 250 System, Anti-DNA assay
		Anti-Thyroid Peroxidase (Anti-TPO) by Immunoassay (Chemiluminescent label)	Roche Cobas 8000 System, Elecsys Anti-TPO assay
		Rheumatoid factor by Immunoturbidimetry	Roche Cobas 8000 System, RF II assay
	Immunochemistry		
	Serum	Thyroglobulin by Immunoassay (Chemiluminescent label)	Roche Cobas 8000 System, Elecsys TG II assay
		Total IgE by Fluoroenzymeimmunoassay	Phadia 250 System, Total IgE assay

Seventh-Day Adventist Corporation (HK) Limited - Clinical Laboratories, Adventist Health
基督復臨安息日會(香港)有限公司 – 港安臨床化驗室
Main Facility: 1/F, Main Block, Hong Kong Adventist Hospital – Tsuen Wan, 199 Tsuen King Circuit, Tsuen Wan, NT, HK.
香港新界荃灣荃景圍199號荃灣港安醫院主座一樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Haematology	**Blood bank - Antenatal screening**		
	EDTA whole blood	ABO and Rh (D) typing by	
		Gel card technique	Ortho Vision Swift System
		Antibody screening by	
		Gel card technique	Ortho Vision Swift System
	Blood bank – General		
	EDTA whole blood	ABO and Rh(D) typing by	
		Gel card technique	Ortho Vision Swift System
		Antibody screening by	
		Gel card technique	Ortho Vision Swift System
		Crossmatch by	
		- Gel card technique	Ortho Vision Swift System
		- Immediate spin	Method as documented in CLAB/HAEM/BBK/IMAT
	Blood bank – Immunohaematology		
	EDTA whole blood	Direct antiglobulin test (DAT) by	
		Gel card technique	Ortho Vision Swift System
		Indirect antiglobulin test (IAT) by	
		Gel card technique	Ortho Vision Swift System
	Blood bank – Special		
	EDTA whole blood	Antibody detection and identification by	
		Gel card technique	Ortho Vision Swift System
	Haematology – General		
	EDTA whole blood	Complete blood count including	Sysmex XN-550 Haematology System
		- Haemoglobin	Sysmex XR-3000 Haematology System
		- Haematocrit	
		- Leucocyte count (WBC count)	
		- Mean corpuscular volume (MCV)	
		- Mean corpuscular haemoglobin (MCH)	
		- Mean corpuscular haemoglobin concentration (MCHC)	
		- Mean Platelet Volume (MPV)	
		- Platelet count	
		- Red cell count	
		- Red cell distribution width (RDW)	

Seventh-Day Adventist Corporation (HK) Limited - Clinical Laboratories, Adventist Health
基督復臨安息日會(香港)有限公司 – 港安臨床化驗室
Main Facility: 1/F, Main Block, Hong Kong Adventist Hospital – Tsuen Wan, 199 Tsuen King Circuit, Tsuen Wan, NT, HK.
香港新界荃灣荃景圍199號荃灣港安醫院主座一樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Haematology (cont'd)	**Haematology – General (cont'd)**		
	EDTA whole blood (cont'd)	Leucocyte differential count by Automated method	Sysmex XN-550 Haematology System Sysmex XR-3000 Haematology System
		Reticulocyte count by Automated method	Sysmex XR-3000 Haematology System
		Peripheral blood smear examination by - Wright Giemsa stain - May-Giemsa stain	Method as documented in CLAB/HAEM/GERN/DC Automated Haematology Slide Preparation Unit Sysmex SP-50
		Erythrocyte Sedimentation Rate (ESR) by Microphotometrical capillary using stopped flow kinetic analysis	Alifax Roller 20PN System
		Malarial Parasite examination by thick and thin films	Method as documented in CLAB/HAEM/SOP/MALS
	Coagulation		
	Citrated blood	Coagulation studies, automated including - Prothrombin Time (PT)	Automated coagulation system: Instrumentation Laboratory ACL TOP 300
		- Activated partial thromboplastin time (APTT)	Automated coagulation system: Instrumentation Laboratory ACL TOP 300

Seventh-Day Adventist Corporation (HK) Limited - Clinical Laboratories, Adventist Health
基督復臨安息日會(香港)有限公司 – 港安臨床化驗室
Main Facility: 1/F, Main Block, Hong Kong Adventist Hospital – Tsuen Wan, 199 Tsuen King Circuit, Tsuen Wan, NT, HK.
香港新界荃灣荃景圍199號荃灣港安醫院主座一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Clinical Microbiology and Infection	**Bacteriology – Culture and sensitivity test and/or microscopy**		
	Genital samples (including HVS, endocervical swab, urethral swab etc.)	Culture of genital pathogens: - Microscopy for cell morphology and microorganisms by Gram stain	Manual method as documented in SOP Gram Stain (CLAB/MICRO/SOP/GRAMS)
		- Culture and antimicrobial susceptibility tests for genital pathogens (including *Neisseria gonorrhoeae*) by Aerobic and CO_2 culture	Culture: Method as documented in SOP Genital culture (CLAB/MICRO/SOP/GCU) Antimicrobial susceptibility tests: Method as documented in SOP Antimicrobial Susceptibility Testing (CLAB/MICRO/SOP/AST)
		- Identification of clinical isolates by MALDI-TOF Mass Spectrometry	Bruker Microflex LT/SH
	Lower respiratory tract samples (including sputum, bronchial aspirate, tracheal aspirate etc.)	Culture of lower respiratory tract pathogens: - Microscopy for cell morphology and microorganisms by Gram stain	Manual method as documented in SOP Gram Stain (CLAB/MICRO/SOP/GRAMS)
		- Culture and antimicrobial susceptibility tests for respiratory tract pathogens by Aerobic and CO_2culture	Culture: Method as documented in SOP Respiratory Culture (CLAB/MICRO/SOP/RC) Antimicrobial susceptibility tests: Method as documented in SOP Antimicrobial Susceptibility Testing (CLAB/MICRO/SOP/AST)
		- Identification of clinical isolates by MALDI-TOF Mass Spectrometry	Bruker Microflex LT/SH

Seventh-Day Adventist Corporation (HK) Limited - Clinical Laboratories, Adventist Health
基督復臨安息日會(香港)有限公司 – 港安臨床化驗室
Main Facility: 1/F, Main Block, Hong Kong Adventist Hospital – Tsuen Wan, 199 Tsuen King Circuit, Tsuen Wan, NT, HK.
香港新界荃灣荃景圍199號荃灣港安醫院主座一樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Bacteriology – Culture and sensitivity test and/or microscopy (cont'd)**		
	Upper respiratory tract samples (including throat swab, nasal swab etc.)	Culture of upper respiratory tract pathogens: - Microscopy for cell morphology and microorganisms by Gram stain	Manual method as documented in SOP Gram Stain (CLAB/MICRO/SOP/GRAMS)
		- Culture and antimicrobial susceptibility tests for respiratory tract pathogens by Aerobic and CO_2culture	Culture: Method as documented in SOP Respiratory Culture (CLAB/MICRO/SOP/RC) Antimicrobial susceptibility tests: Method as documented in SOP Antimicrobial Susceptibility Testing (CLAB/MICRO/SOP/AST)
		- Identification of clinical isolates by MALDI-TOF Mass Spectrometry	Bruker Microflex LT/SH
	Enteric samples (including stool and rectal swab)	Culture of enteric pathogens: - Culture and antimicrobial susceptibility tests for enteric pathogens by Aerobic and microaerophilic culture	Culture: Method as documented in SOP Stool Culture (CLAB/MICRO/SOP/SC) Antimicrobial susceptibility tests: Method as documented in SOP Antimicrobial Susceptibility Testing (CLAB/MICRO/SOP/AST)
		- Identification of clinical isolates by MALDI-TOF Mass Spectrometry	Bruker Microflex LT/SH
		- Culture and antimicrobial susceptibility tests for *Clostridium difficile* by Anaerobic culture	Culture: Method as documented in SOP *Clostridium difficile* Culture (CLAB/MICRO/SOP/CDC) Antimicrobial susceptibility tests: Method as documented in SOP Antimicrobial Susceptibility Testing (CLAB/MICRO/SOP/AST)
		- Identification of clinical isolates by MALDI-TOF Mass Spectrometry	Bruker Microflex LT/SH

Seventh-Day Adventist Corporation (HK) Limited - Clinical Laboratories, Adventist Health
基督復臨安息日會(香港)有限公司 – 港安臨床化驗室
Main Facility: 1/F, Main Block, Hong Kong Adventist Hospital – Tsuen Wan, 199 Tsuen King Circuit, Tsuen Wan, NT, HK.
香港新界荃灣荃景圍199號荃灣港安醫院主座一樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Bacteriology – Culture and sensitivity test and/or microscopy (cont'd)**		
	Superficial wound samples (including eye, ear, skin swabs etc.)	Culture of pathogens: - Microscopy for cell morphology and microorganisms by Gram stain	Manual method as documented in SOP Gram Stain (CLAB/MICRO/SOP/GRAMS)
		- Culture and antimicrobial susceptibility tests for pathogens by Aerobic and CO_2 culture	Culture: Method as documented in SOP Wound/Abscess and Soft Tissue Culture (CLAB/MICRO/SOP/WASTC) Antimicrobial susceptibility tests: Method as documented in SOP Antimicrobial Susceptibility Testing (CLAB/MICRO/SOP/AST)
		- Identification of clinical isolates by MALDI-TOF Mass Spectrometry	Bruker Microflex LT/SH
	Deep wound samples fluid (including abscess pus or tissue etc.)	Culture of deep wound pathogens: - Microscopy for cell morphology and microorganisms by Gram stain	Manual method as documented in SOP Gram Stain (CLAB/MICRO/SOP/GRAMS)
		- Culture and antimicrobial susceptibility tests for deep wound pathogens by Aerobic, CO_2 and anaerobic culture	Culture: Method as documented in SOP Wound/Abscess and Soft Tissue Culture (CLAB/MICRO/SOP/WASTC) Antimicrobial susceptibility tests: Method as documented in SOP Antimicrobial Susceptibility Testing (CLAB/MICRO/SOP/AST)
		- Identification of clinical isolates by MALDI-TOF Mass Spectrometry	Bruker Microflex LT/SH

Seventh-Day Adventist Corporation (HK) Limited - Clinical Laboratories, Adventist Health
基督復臨安息日會(香港)有限公司 – 港安臨床化驗室
Main Facility: 1/F, Main Block, Hong Kong Adventist Hospital – Tsuen Wan, 199 Tsuen King Circuit, Tsuen Wan, NT, HK.
香港新界荃灣荃景圍199號荃灣港安醫院主座一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Bacteriology – Culture and sensitivity test and/or microscopy (cont'd)**		
	Urine	Culture of urinary pathogens: - Culture and antimicrobial susceptibility tests for urinary pathogens by Aerobic culture	Culture: Method as documented in SOP Urine Culture (CLAB/SOP/MICRO/UC) Antimicrobial susceptibility tests: Method as documented in SOP Antimicrobial Susceptibility Testing (CLAB/MICRO/SOP/AST)
		- Identification of clinical isolates by MALDI-TOF Mass Spectrometry	Bruker Microflex LT/SH
	Bacteriology – Serology		
	Serum	Antistreptolysin O titer by Spectrophotometry	Roche Cobas 8000 System, ASOT assay
	Urine	*Streptococcus pneumoniae* Antigen by Immunofluorescent assay	Sofia *S. pneumoniae* FIA Kit
		Legionella Antigen by Immunofluorescent assay	Sofia *Legionella* FIA Kit
	Microbiology – Miscellaneous tests		
	Breath air	*Helicobacter pylori* (*H. pylori*) breath test by Isotope ratio mass spectrometry (IRMS)	$^{13}CO_2$ Urea Breath Analyzer, POCone
	Urine	Pregnancy test for human chorionic gonadotrophin (hCG) by Immunochromatographic assay	OneStep hCG Combo Urine/Serum rapid test kit
	Serum	Toxoplasma antibody, IgG by Immunoassay (Chemiluminescent label)	Roche Cobas 8000 System, Toxo IgG assay
		Toxoplasma antibody, IgM by Immunoassay (Chemiluminescent label)	Roche Cobas 8000 System, Toxo IgM assay
	Mycobateriology – Microscopy		
	Clinical specimens, respiratory specimens, sputum, urine, etc.	Microscopy for acid-fast bacilli (AFB) by Ziehl-Neelsen stain	Method as documented in CLAB/MICRO/SOP/AFS

Seventh-Day Adventist Corporation (HK) Limited - Clinical Laboratories, Adventist Health
基督復臨安息日會(香港)有限公司 – 港安臨床化驗室
Main Facility: 1/F, Main Block, Hong Kong Adventist Hospital – Tsuen Wan, 199 Tsuen King Circuit, Tsuen Wan, NT, HK.
香港新界荃灣荃景圍199號荃灣港安醫院主座一樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Parasitology – Microscopy and staining**		
	Stool	Microscopy for ova and parasite by	
		Concentration method	Method as documented in CLAB/MICRO/SOP/PARA
	Syphilis serology		
	Serum	Rapid Plasma Reagin Antibody (RPR) by	
		Flocculation method	BD Macro-Vue RPR assay
		Treponema pallidum antibody (IgG) by	
		Fluorescent treponemal antibody-absorption test (FTA-Abs)	Euroimmun Anti *Treponema pallidum* IgG assay
		Treponema pallidum antibody (IgM) by	
		Fluorescent treponemal antibody-absorption test (FTA-Abs)	Euroimmun Anti *Treponema pallidum* IgM assay
		Treponema pallidum antibody by	
		- *Treponemal pallidum* Passive Particle Agglutination test (TPPA)	Fujirebio Serodia-TP.PA assay
		- Immunoassay (Chemiluminescent label)	Abbott Alinity i System, Syphilis assay
	Urinalysis and urine microscopy		
	Urine	Urinalysis by dipstick method, including:	Automated Urinalysis – Sysmex UC3500
		- Glucose - Bilirubin - Ketone - Specific Gravity - Blood - pH - Protein - Urobilinogen - Nitrate - Leucocyte	Manual method as documented in CLAB/MICRO/SOP/UR
		Urine formed elements by	
		- Automated urine microscopy system	Automated Urinalysis – Sysmex UF4000
		- Microscopic examination with fixed volume in microtitre plate well	Manual method as documented in CLAB/MICRO/SOP/UR

Seventh-Day Adventist Corporation (HK) Limited - Clinical Laboratories, Adventist Health
基督復臨安息日會(香港)有限公司 – 港安臨床化驗室
Main Facility: 1/F, Main Block, Hong Kong Adventist Hospital – Tsuen Wan, 199 Tsuen King Circuit, Tsuen Wan, NT, HK.
香港新界荃灣荃景圍199號荃灣港安醫院主座一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Virology – Serology** Serum	Cytomegalovirus Antibody (Anti-CMV), IgG by Immunoassay (Chemiluminescent label)	Roche Cobas 8000 System, CMV IgG assay
		Cytomegalovirus Antibody (Anti-CMV), IgM by Immunoassay (Chemiluminescent label)	Roche Cobas 8000 System, CMV IgM assay
		Hepatitis B virus antigen, qualitative & quantitative by - Immunoassay (Enzyme-based label)	Roche Cobas 8000 System HBsAg assay (qualitative)
		- Immunoassay (Chemiluminescent label)	Abbott Alinity i System HBsAg assay (qualitative and quantitative)
		Hepatitis B virus surface antibody (Anti-HBs), quantitative by Immunoassay (Chemiluminescent label)	Abbott Alinity i System Anti-HBs assay
		Hepatitis C Virus Antibody (Anti-HCV) by Immunoassay (Chemiluminescent label)	Roche Cobas 8000 System, HCV assay
		Herpes Simplex Virus-1 Antibody (Anti-HSV-1), IgG by Immunoassay (Chemiluminescent label)	Roche Cobas 8000 System, HSV-1 IgG assay
		Herpes Simplex Virus-2 Antibody (Anti-HSV-2), IgG by Immunoassay (Chemiluminescent label)	Roche Cobas 8000 System, HSV-2 IgG assay
		Human immunodeficiency virus antigen and antibody (Qualitative) by Immunoassay (Chemiluminescent label)	Abbott Alinity i System HIV 1/2 Antigen and Antibodies Combo assay
		Rubella virus antibody (IgG) by Immunoassay (Chemiluminescent label)	Abbott Alinity i System Rubella IgG assay
		Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) Antibody (IgG), quantitative by Immunoassay (Chemiluminescent label)	Abbott Alinity i System SARS-CoV-2 IgG II Quant assay

Seventh-Day Adventist Corporation (HK) Limited - Clinical Laboratories, Adventist Health
基督復臨安息日會(香港)有限公司 – 港安臨床化驗室
Main Facility: 1/F, Main Block, Hong Kong Adventist Hospital – Tsuen Wan, 199 Tsuen King Circuit, Tsuen Wan, NT, HK.
香港新界荃灣荃景圍199號荃灣港安醫院主座一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Medical Genetics	**Molecular genetics (microbiology)**		
	Nasopharyngeal swab	Influenza virus A & B and Respiratory syncytial virus (RSV) by Multiplex real-time RT-PCR, qualitative Target region: Influenza A - M gene Target region: Influenza B -NP gene Target region: RSV -M gene	Cobas LIAT Influenza A/B & RSV Kit
	Deep throat saliva, nasopharyngeal swab, nasal and throat swab	Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) – detection by Real time Multiplex Polymerase Chain Reaction, qualitative (Target regions: N gene and ORF1a/b gene)	Cobas SARS-CoV-2 & Influenza A/B assay Nucleic acid extraction, amplification and detection as documented in CLAB/MICRO/SOP/SARS-L
		(Target regions: E gene and N2 gene)	Cepheid Xpress SARS-CoV-2/Flu/RSV plus assay Nucleic acid extraction, amplification and detection as documented in CLAB/MICRO/SOP/SARS-G

Seventh-Day Adventist Corporation (HK) Limited - Clinical Laboratories, Adventist Health
基督復臨安息日會(香港)有限公司 – 港安臨床化驗室
Branch Facility: 7/F, 40 Stubbs Road, Hong Kong Adventist Hospital, Hong Kong
香港司徒拔道40號香港港安醫院七樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology	**Drug of abuse testing** Urine	Amphetamine, qualitative by Immunoassay (Fluorescent label)	The Triage® TOX Drug Screen, Biosite Incorporated
		Acetaminophen/Paracetamol by Immunoassay (Fluorescent label)	The Triage® TOX Drug Screen, Biosite Incorporated
		Barbiturates, qualitative by Immunoassay (Fluorescent label)	The Triage® TOX Drug Screen, Biosite Incorporated
		Benzodiazepines, qualitative by Immunoassay (Fluorescent label)	The Triage® TOX Drug Screen, Biosite Incorporated
		Cannobinoides (THC), qualitative by Immunoassay (Fluorescent label)	The Triage® TOX Drug Screen, Biosite Incorporated
		Cocaine, qualitative by Immunoassay (Fluorescent label)	The Triage® TOX Drug Screen, Biosite Incorporated
		Ketamine, qualitative by One-step lateral flow chromatography	Drug Screen Urine Test kit, ABON Multi-Line Screen Test Device
		Methadone, qualitative by Immunoassay (Fluorescent label)	The Triage® TOX Drug Screen, Biosite Incorporated
		Methamphetamines by Immunoassay (Fluorescent label)	The Triage® TOX Drug Screen, Biosite Incorporated
		Nicotine, qualitative by One-step lateral flow chromatography	Drug Screen Urine Test kit, ABON Multi-Line Screen Test Device
		Opiates, qualitative by Immunoassay (Fluorescent label)	The Triage® TOX Drug Screen, Biosite Incorporated
		Phencyclidine (PCP), qualitative by Immunoassay (Fluorescent label)	The Triage® TOX Drug Screen, Biosite Incorporated
		Tricyclic Antidepressants by Immunoassay (Fluorescent label)	The Triage® TOX Drug Screen, Biosite Incorporated
		Urine Temperature by Direct measurement	Method as documented in CLAB/CHEM/SOP/TOXDS

Seventh-Day Adventist Corporation (HK) Limited - Clinical Laboratories, Adventist Health
基督復臨安息日會(香港)有限公司 – 港安臨床化驗室
Branch Facility: 7/F, 40 Stubbs Road, Hong Kong Adventist Hospital, Hong Kong
香港司徒拔道40號香港港安醫院七樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology (cont'd)	**General chemistry** Serum	Albumin by Spectrophotometry	Roche Cobas 6000 System, ALB2 assay
		A/G ratio by Calculation	Roche Cobas 6000 System (calculated from serum Albumin and serum Globulin)
		Alkaline Phosphatase (ALP) by Spectrophotometry	Roche Cobas 6000 System, ALP2 assay
		Alanine Aminotransferase (ALT) by Spectrophotometry	Roche Cobas 6000 System, ALT assay
		Amylase by Spectrophotometry	Roche Cobas 6000 System, AMYL2 assay
		Aspartate Aminotransferase (AST) by Spectrophotometry	Roche Cobas 6000 System, AST assay
		Bilirubin, Direct by Spectrophotometry	Roche Cobas 6000 System, BILD2 assay
		Bilirubin, Total by Spectrophotometry	Roche Cobas 6000 System, BILT3 assay
		Bilirubin, Indirect by Calculation	Roche Cobas 6000 System (calculated from serum Bilirubin, Total and Bilirubin, Direct)
		Calcium by Spectrophotometry	Roche Cobas 6000 System, CA2 assay
		Corrected calcium by Calculation	Roche Cobas 6000 System (calculated from serum Albumin and serum Calcium)
		Cholesterol High Density Lipoprotein (HDL) by Spectrophotometry	Roche Cobas 6000 System, HDLC4 assay
		Cholesterol Low Density Lipoprotein (LDL) by Spectrophotometry	Roche Cobas 6000 System, LDLC3 assay

Seventh-Day Adventist Corporation (HK) Limited - Clinical Laboratories, Adventist Health
基督復臨安息日會(香港)有限公司 – 港安臨床化驗室
Branch Facility: 7/F, 40 Stubbs Road, Hong Kong Adventist Hospital, Hong Kong
香港司徒拔道40號香港港安醫院七樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology (cont'd)	**General chemistry (cont'd)** Serum (cont'd)	Cholesterol, non HDL-C by Calculation	Roche Cobas 6000 System (calculated from serum Cholesterol, Total and serum HDL)
		Cholesterol, Total by Spectrophotometry	Roche Cobas 6000 System, CHOL2 assay
		Cholesterol/HDL ratio by Calculation	Roche Cobas 6000 System (calculated from serum Cholesterol, Total and serum HDL)
		CK-MB isoenzyme (CK-MB) by Immunoassay (Chemiluminescent label)	Abbott Alinity i System, CK-MB assay
		Creatine Kinase (CK) by Spectrophotometry	Roche Cobas 6000 System, CK assay
		Creatinine by Spectrophotometry	Roche Cobas 6000 System, CREJ2 assay
		Creatinine clearance by Calculation	Roche Cobas 6000 System (calculated from serum creatinine, 24 hours urine volume, urine creatinine and body surface area)
		Estimated Glomerular Filtration Rate (eGFR) by Calculation	Roche Cobas 6000 System (calculated from serum Creatinine assay using Modification of Diet in Renal Disease (MDRD) Study equation)
		γ Glutamyl Transferase (GGT) by Spectrophotometry	Roche Cobas 6000 System, GGT2 assay
		Globulin by Calculation	Roche Cobas 6000 System (calculated from serum Protein, Total and serum Albumin)

Seventh-Day Adventist Corporation (HK) Limited - Clinical Laboratories, Adventist Health
基督復臨安息日會(香港)有限公司 – 港安臨床化驗室
Branch Facility: 7/F, 40 Stubbs Road, Hong Kong Adventist Hospital, Hong Kong
香港司徒拔道40號香港港安醫院七樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology (cont'd)	**General chemistry (cont'd)**		
	Serum (cont'd)	Glucose by Spectrophotometry	Roche Cobas 6000 System, GLUC3 assay
		Lactate Dehydrogenase (LDH) by Spectrophotometry	Roche Cobas 6000 System, LDHI2 assay
		Oral Glucose Tolerance Test (OGTT) by Spectrophotometry	Roche Cobas 6000 System, GLUC3 assay
	Serum or urine	Osmolality by Freezing point	Advanced Instrument Osmometer 3320
	Serum	Phosphate by Spectrophotometry	Roche Cobas 6000 System, PHOS2 assay
		Potassium by Potentiometry (Ion Selective Electrode)	Roche Cobas 6000 System, ISE-K assay
		Protein, Total by Spectrophotometry	Roche Cobas 6000 System, TP2 assay
		Sodium by Potentiometry (Ion Selective Electrode)	Roche Cobas 6000 System, ISE-NA assay
		Triglyceride by Spectrophotometry	Roche Cobas 6000 System, TRIGL assay
		Troponin I by Immunoassay (Chemiluminescent label)	Abbott Alinity i System, Troponin I assay
		Uric acid by Spectrophotometry	Roche Cobas 6000 System, UA2 assay
		Urea by Spectrophotometry	Roche Cobas 6000 System, UREAL assay

Seventh-Day Adventist Corporation (HK) Limited - Clinical Laboratories, Adventist Health
基督復臨安息日會(香港)有限公司 – 港安臨床化驗室
Branch Facility: 7/F, 40 Stubbs Road, Hong Kong Adventist Hospital, Hong Kong
香港司徒拔道40號香港港安醫院七樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology (cont'd)	**General chemistry (cont'd)** Urine (spot and 24 hours)	Albumin by Spectrophotometry	Roche Cobas 6000 System, ALBT2 assay
		Albumin/Creatinine ratio by Calculation	Roche Cobas 6000 System (calculated from urine Albumin and urine Creatinine)
		Creatinine by Spectrophotometry	Roche Cobas 6000 System, CREJ2 assay
		Creatinine clearance by Calculation	Roche Cobas 6000 System (calculated from serum creatinine, 24 hours urine volume, urine creatinine and body surface area)
		Potassium by Potentiometry (Ion Selective Electrode)	Roche Cobas 6000 System, ISE-K assay
		Sodium by Potentiometry (Ion Selective Electrode)	Roche Cobas 6000 System, ISE-NA assay
		Protein by Spectrophotometry	Roche Cobas 6000 System, TPUC3 assay
		Protein/Creatinine ratio by Calculation	Roche Cobas 6000 System (calculated from urine Protein and urine Creatinine)

Seventh-Day Adventist Corporation (HK) Limited - Clinical Laboratories, Adventist Health
基督復臨安息日會(香港)有限公司 – 港安臨床化驗室
Branch Facility: 7/F, 40 Stubbs Road, Hong Kong Adventist Hospital, Hong Kong
香港司徒拔道40號香港港安醫院七樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology (cont'd)	**Hormones**		
	Serum	Follicle stimulating hormone (FSH) by Immunoassay (Chemiluminescent label)	Roche Cobas 6000 System, Elecsys FSH assay
		Free Thyroxine Index (FTI) by Calculation	Roche Cobas 6000 System (calculated from Elecsys T4 and Elecsys T-uptake assay)
		Luteinizing hormone (LH) by Immunoassay (Chemiluminescent label)	Roche Cobas 6000 System, Elecsys LH assay
		T-uptake by Immunoassay (Chemiluminescent label)	Roche Cobas 6000 System, Elecsys T-uptake assay
		Triiodothyronine (T3), Free by Immunoassay (Chemiluminescent label)	Roche Cobas 6000 System, Elecsys FT3 III assay
		Thyroxine (T4), Free by Immunoassay (Chemiluminescent label)	Roche Cobas 6000 System, Elecsys FT4 IV assay
		Thyroxine (T4), Total by Immunoassay (Chemiluminescent label)	Roche Cobas 6000 System, Elecsys T4 assay
		Thyroid stimulating hormone (TSH) by Immunoassay (Chemiluminescent label)	Roche Cobas 6000 System, Elecsys TSH assay
	Protein, quantitative analysis		
	Serum	C-reactive protein by Immunoturbidmetry	Roche Cobas 6000 System, CRP4 assay
	Special chemistry		
	EDTA whole blood	Haemoglobin A1c (HbA1c) by Ion exchange high performance liquid chromatography (HPLC)	Bio-Rad D-10 Haemoglobin Testing System
	Stool	Fecal Occult Blood by Latex agglutination immunoturbidimetry	HM-JACKarc Automated Fecal Blood Test Analyser

Seventh-Day Adventist Corporation (HK) Limited - Clinical Laboratories, Adventist Health
基督復臨安息日會(香港)有限公司 – 港安臨床化驗室
Branch Facility: 7/F, 40 Stubbs Road, Hong Kong Adventist Hospital, Hong Kong
香港司徒拔道40號香港港安醫院七樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology (cont'd)	**Tumour markers** Serum	Alpha-feto Protein (AFP) by Immunoassay (Chemiluminescent label)	Roche Cobas 6000 System, Elecsys AFP assay
		CA 15.3 by Immunoassay (Chemiluminescent label)	Roche Cobas 6000 System, Elecsys CA15.3 II assay
		CA19.9 by Immunoassay (Chemiluminescent label)	Roche Cobas 6000 System, Elecsys CA19.9 assay
		CA 72.4 by Immunoassay (Chemiluminescent label)	Roche Cobas 6000 System, Elecsys CA72.4 assay
		CA125 by Immunoassay (Chemiluminescentd label)	Roche Cobas 6000 System, ElecsysCA125 II assay
		Carcinoembryonic Antigen (CEA) by Immunoassay (Chemiluminescent label)	Roche Cobas 6000 System, Elecsys CEA assay
		Human Chorionic Gonadotropin (HCG), β by Immunoassay (Chemiluminescent label)	Abbott Alinity i System Total β hCG assay
		Prostate Specific Antigen (PSA), Total by Immunoassay (Chemiluminescent label)	Abbott Alinity i System Total PSA assay

Seventh-Day Adventist Corporation (HK) Limited - Clinical Laboratories, Adventist Health
基督復臨安息日會(香港)有限公司 – 港安臨床化驗室
Branch Facility: 7/F, 40 Stubbs Road, Hong Kong Adventist Hospital, Hong Kong
香港司徒拔道40號香港港安醫院七樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Immunology	**Autoantibodies**		
	Serum	Anti-Thyroid Peroxidase (Anti-TPO) by	
		Immunoassay (Chemiluminescent label)	Roche Cobas 6000 System, Elecsys Anti-TPO assay
		Rheumatoid factor by	
		Immunoturbidimetry	Roche Cobas 6000 System, RF II assay
	Immunochemistry		
	Serum	Thyroglobulin by	
		Immunoassay (Chemiluminescent label)	Roche Cobas 6000 System, Elecsys TG II assay

Seventh-Day Adventist Corporation (HK) Limited - Clinical Laboratories, Adventist Health
基督復臨安息日會(香港)有限公司 – 港安臨床化驗室
Branch Facility: 7/F, 40 Stubbs Road, Hong Kong Adventist Hospital, Hong Kong
香港司徒拔道40號香港港安醫院七樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Haematology	**Blood bank – Antenatal screening**		
	EDTA whole blood	ABO and Rh (D) typing by	
		Gel card technique	Ortho Vision Swift System
		Antibody screening by	
		Gel card technique	Ortho Vision Swift System
	Blood bank – General		
	EDTA whole blood	ABO and Rh(D) typing by	
		Gel card technique	Ortho Vision Swift System
		Antibody screening by	
		Gel card technique	Ortho Vision Swift System
		Crossmatch by	
		- Gel card technique	Ortho Vision Swift System
		- Immediate spin	Method as documented in CLAB/HAEM/BBK/IMAT
	Blood bank – Immunohaematology		
	EDTA whole blood	Direct antiglobulin test (DAT) by	
		Gel card technique	Ortho Vision Swift System
		Indirect antiglobulin test (IAT) by	
		Gel card technique	Ortho Vision Swift System
	Blood bank – Special		
	EDTA whole blood	Antibody detection and identification by	
		Gel card technique	Ortho Vision Swift System

Seventh-Day Adventist Corporation (HK) Limited - Clinical Laboratories, Adventist Health
基督復臨安息日會(香港)有限公司 – 港安臨床化驗室
Branch Facility: 7/F, 40 Stubbs Road, Hong Kong Adventist Hospital, Hong Kong
香港司徒拔道40號香港港安醫院七樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Haematology (cont'd)	**Haematology – General** EDTA whole blood	Complete blood count including - Haemoglobin - Haematocrit - Leucocyte count (WBC count) - Mean corpuscular volume (MCV) - Mean corpuscular haemoglobin (MCH) - Mean corpuscular haemoglobin concentration (MCHC) - Mean Platelet Volume (MPV) - Platelet count - Red cell count - Red cell distribution width (RDW)	Sysmex XR-3000 Haematology System
		Leucocyte differential count by Automated method	Sysmex XR-3000 Haematology System
		Reticulocyte count by Automated method	Sysmex XR-3000 Haematology System
		Peripheral blood smear examination by Wright Giemsa stain	Method as documented in CLAB/HAEM/GERN/DC Automated Haematology Slide Preparation Unit Sysmex SP-50
		Erythrocyte Sedimentation Rate (ESR) by Microphotometrical capillary using stopped flow kinetic analysis	Alifax Roller 20PN System
		Malarial Parasite examination by thick and thin films	Method as documented in CLAB/HAEM/SOP/MALS
	Coagulation Citrated Blood	Coagulation studies, automated including - Activated partial thromboplastin time (APTT)	Automated coagulation system: Instrumentation Laboratory ACL TOP 300
		- Prothrombin Time (PT)	Automated coagulation system: Instrumentation Laboratory ACL TOP 300

Seventh-Day Adventist Corporation (HK) Limited - Clinical Laboratories, Adventist Health
基督復臨安息日會(香港)有限公司 – 港安臨床化驗室
Branch Facility: 7/F, 40 Stubbs Road, Hong Kong Adventist Hospital, Hong Kong
香港司徒拔道40號香港港安醫院七樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Clinical Microbiology and Infection	**Bacteriology – Culture and sensitivity test and/or microscopy**		
	Genital samples (including HVS, endocervical swab, urethral swab etc.)	Culture of genital pathogens: - Microscopy for cell morphology and microorganisms by Gram stain	Manual method as documented in SOP Gram Stain (CLAB/MICRO/SOP/GRAMS)
		- Culture and antimicrobial susceptibility tests for genital pathogens (including *Neisseria gonorrhoeae*) by Aerobic and CO_2 culture	Culture: Method as documented in SOP Genital Culture (CLAB/MICRO/SOP/GCU) Antimicrobial susceptibility tests: Method as documented in SOP Antimicrobial Susceptibility Testing (CLAB/MICRO/SOP/AST)
		- Identification of clinical isolates by MALDI-TOF Mass Spectrometry	bioMerieux VITEK MS
	Lower respiratory tract samples (including sputum, bronchial aspirate, tracheal aspirate etc.)	Culture of lower respiratory tract pathogens: - Microscopy for cell morphology and microorganisms by Gram stain	Manual method as documented in SOP Gram Stain (CLAB/MICRO/SOP/GRAMS)
		- Culture and antimicrobial susceptibility tests for respiratory tract pathogens by Aerobic and CO_2culture	Culture: Method as documented in SOP Respiratory Culture (CLAB/MICRO/SOP/RC) Antimicrobial susceptibility tests: Method as documented in SOP Antimicrobial Susceptibility Testing (CLAB/MICRO/SOP/AST)
		- Identification of clinical isolates by MALDI-TOF Mass Spectrometry	bioMerieux VITEK MS

Seventh-Day Adventist Corporation (HK) Limited - Clinical Laboratories, Adventist Health
基督復臨安息日會(香港)有限公司 – 港安臨床化驗室
Branch Facility: 7/F, 40 Stubbs Road, Hong Kong Adventist Hospital, Hong Kong
香港司徒拔道40號香港港安醫院七樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Bacteriology – Culture and sensitivity test and/or microscopy (cont'd)**		
	Upper respiratory tract samples (including throat swab, nasal swab etc.)	Culture of upper respiratory tract pathogens: - Microscopy for cell morphology and microorganisms by Gram stain	Manual method as documented in SOP Gram Stain (CLAB/MICRO/SOP/GRAMS)
		- Culture and antimicrobial susceptibility tests for respiratory tract pathogens by Aerobic and CO_2culture	Culture: Method as documented in SOP Respiratory Culture (CLAB/MICRO/SOP/RC) Antimicrobial susceptibility tests: Method as documented in SOP Antimicrobial Susceptibility Testing (CLAB/MICRO/SOP/AST)
		- Identification of clinical isolates by MALDI-TOF Mass Spectrometry	bioMerieux VITEK MS
	Enteric samples (including stool and rectal swab)	Culture of enteric pathogens: - Culture and antimicrobial susceptibility tests for enteric pathogens by Aerobic and microaerophilic culture	Culture: Method as documented in SOP Stool Culture (CLAB/MICRO/SOP/SC) Antimicrobial susceptibility tests: Method as documented in SOP Antimicrobial Susceptibility Testing (CLAB/MICRO/SOP/AST)
		- Identification of clinical isolates by MALDI-TOF Mass Spectrometry	bioMerieux VITEK MS
		- Culture and antimicrobial susceptibility tests for *Clostridium difficile* by Anaerobic culture	Culture: Method as documented in SOP *Clostridium difficile* Culture (CLAB/MICRO/SOP/CDC) Antimicrobial susceptibility tests: Method as documented in SOP Antimicrobial Susceptibility Testing (CLAB/MICRO/SOP/AST)
		- Identification of clinical isolates by MALDI-TOF Mass Spectrometry	bioMerieux VITEK MS

Seventh-Day Adventist Corporation (HK) Limited - Clinical Laboratories, Adventist Health
基督復臨安息日會(香港)有限公司 – 港安臨床化驗室
Branch Facility: 7/F, 40 Stubbs Road, Hong Kong Adventist Hospital, Hong Kong
香港司徒拔道40號香港港安醫院七樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Bacteriology – Culture and sensitivity test and/or microscopy (cont'd)**		
	Superficial wound samples (including eye, ear, skin swabs etc.)	Culture of pathogens: - Microscopy for cell morphology and microorganisms by Gram stain	Manual method as documented in SOP Gram Stain (CLAB/MICRO/SOP/GRAMS)
		- Culture and antimicrobial susceptibility tests for pathogens by Aerobic and CO_2 culture	Culture: Method as documented in SOP Wound/Abscess and Soft Tissue Culture (CLAB/MICRO/SOP/WASTC) Antimicrobial susceptibility tests: Method as documented in SOP Antimicrobial Susceptibility Testing (CLAB/MICRO/SOP/AST)
		- Identification of clinical isolates by MALDI-TOF Mass Spectrometry	bioMerieux VITEK MS
	Deep wound samples fluid (including abscess pus or tissue etc.)	Culture of deep wound pathogens: - Microscopy for cell morphology and microorganisms by Gram stain	Manual method as documented in SOP Gram Stain (CLAB/MICRO/SOP/GRAMS)
		- Culture and antimicrobial susceptibility tests for deep wound pathogens by Aerobic, CO_2 and anaerobic culture	Culture: Method as documented in SOP Wound/Abscess and Soft Tissue Culture (CLAB/MICRO/SOP/WASTC) Antimicrobial susceptibility tests: Method as documented in SOP Antimicrobial Susceptibility Testing (CLAB/MICRO/SOP/AST)
		- Identification of clinical isolates by MALDI-TOF Mass Spectrometry	bioMerieux VITEK MS
	Urine	Culture of urinary pathogens: - Culture and antimicrobial susceptibility tests for urinary pathogens by Aerobic culture	Culture: Method as documented in SOP Urine Culture (CLAB/SOP/MICRO/UC) Antimicrobial susceptibility tests: Method as documented in SOP Antimicrobial Susceptibility Testing (CLAB/MICRO/SOP/AST)
		- Identification of clinical isolates by MALDI-TOF Mass Spectrometry	bioMerieux VITEK MS

Seventh-Day Adventist Corporation (HK) Limited - Clinical Laboratories, Adventist Health
基督復臨安息日會(香港)有限公司 – 港安臨床化驗室
Branch Facility: 7/F, 40 Stubbs Road, Hong Kong Adventist Hospital, Hong Kong
香港司徒拔道40號香港港安醫院七樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Bacteriology – Serology**		
	Serum	Antistreptolysin O titer by Spectrophotometry	Roche Cobas 6000 System, ASOT assay
	Urine	*Streptococcus pneumoniae* Antigen by Immunofluorescent assay	Sofia *S. pneumoniae* FIA Kit
		Legionella Antigen by Immunofluorescent assay	Sofia *Legionella* FIA Kit
	Microbiology – Miscellaneous tests		
	Urine	Pregnancy test for human chorionic gonadotrophin (hCG) by Immunochromatographic assay	OneStep hCG Combo Urine/Serum rapid test kit
	Mycobateriology - Microscopy		
	Clinical specimen, respiratory specimens, sputum, urine, etc.	Microscopy for acid-fast bacilli (AFB) by Ziehl-Neelsen stain	Method as documented in CLAB/MICRO/SOP/AFS
	Parasitology – Microscopy and staining		
	Stool	Microscopy for ova and parasite by Concentration method	Method as documented in CLAB/MICRO/SOP/PARA
	Syphilis serology		
	Serum	Rapid Plasma Reagin Antibody (RPR) by Flocculation method	BD Macro-Vue RPR assay
		Treponema pallidum antibody by - *Treponemal pallidum* Passive Particle Agglutination test (TPPA)	Fujirebio Serodia-TP.PA assay
		- Immunoassay (Chemiluminescent label)	Abbott Alinity i System Syphilis assay

Seventh-Day Adventist Corporation (HK) Limited - Clinical Laboratories, Adventist Health
基督復臨安息日會(香港)有限公司 – 港安臨床化驗室
Branch Facility: 7/F, 40 Stubbs Road, Hong Kong Adventist Hospital, Hong Kong
香港司徒拔道40號香港港安醫院七樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Urinalysis and urine microscopy**		
	Urine	Urinalysis by dipstick method, including: - Glucose - Bilirubin - Ketone - Specific Gravity - Blood - pH - Protein - Urobilinogen - Nitrate - Leucocyte	Method as documented in CLAB/MICRO/SOP/UR
		Urine formed elements by Microscopic examination with fixed volume in microtitre plate well	Method as documented in CLAB/MICRO/SOP/UR
	Virology – Serology		
	Serum	Hepatitis B virus antigen, qualitative & quantitative by Immunoassay (Chemiluminescent label)	Abbott Alinity i System HBsAg assay (qualitative and quantitative)
		Hepatitis B virus surface antibody (Anti-HBs), quantitative by Immunoassay (Chemiluminescent label)	Abbott Alinity i System Anti-HBs assay
		Human immunodeficiency virus antigen and antibody (Qualitative) by Immunoassay (Chemiluminescent label)	Abbott Alinity i System HIV 1/2 Antigen and Antibodies Combo assay
		Rubella virus antibody (IgG) by Immunoassay (Chemiluminescent label)	Abbott Alinity i System Rubella IgG assay
		Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) Antibody (IgG), quantitative by Immunoassay (Chemiluminescent label)	Abbott Alinity i System SARS-CoV-2 IgG II Quant assay

Seventh-Day Adventist Corporation (HK) Limited - Clinical Laboratories, Adventist Health
基督復臨安息日會(香港)有限公司 – 港安臨床化驗室
Branch Facility: 7/F, 40 Stubbs Road, Hong Kong Adventist Hospital, Hong Kong
香港司徒拔道40號香港港安醫院七樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Medical Genetics	**Molecular Genetics (microbiology)**		
	Nasopharyngeal swab	Influenza virus A & B and Respiratory syncytial virus (RSV) by Multiplex real-time RT-PCR, qualitative Target region: Influenza A - M gene Target region: Influenza B -NP gene Target region: RSV -M gene	Cobas LIAT Influenza A/B & RSV Kit
	Deep throat saliva, nasopharyngeal swab, nasal and throat swab	Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) – detection by Real time Multiplex Polymerase Chain Reaction, qualitative (Target regions: N gene and ORF1a/b gene)	Cobas SARS-CoV-2 & Influenza A/B assay Nucleic acid extraction, amplification and detection as documented in CLAB/MICRO/SOP/SARS-L
		(Target regions: E gene and N2 gene)	Cepheid Xpress SARS-CoV-2/Flu/RSV plus assay Nucleic acid extraction, amplification and detection as documented in CLAB/MICRO/SOP/SARS-G

Hospital Authority - Princess Margaret Hospital, Department of Pathology
醫院管理局 - 瑪嘉烈醫院病理部

ADDRESS : 2-10 Princess Margaret Hospital Road, Lai Chi Kok, Kowloon, Hong Kong
地址 香港九龍荔枝角瑪嘉烈醫院道二至十號

ENQUIRY : Ms Noel KWONG Wing-kwan
查詢 江詠群女士

TELEPHONE : 2990 1813
電話

FAX : 2370 0969
傳真

E-MAIL : kwk447@ha.org.hk
電郵

WEBSITE ADDRESS : N/A
網址

CLIENTELE : Public and private hospitals and clinics
服務對象 公營及私營醫院和診所

Hospital Authority - Princess Margaret Hospital, Department of Pathology
醫院管理局-瑪嘉烈醫院病理部

ADDRESS :
地址

Main Facility

2-10 Princess Margaret Hospital Road, Lai Chi Kok, Kowloon, Hong Kong
香港九龍荔枝角瑪嘉烈醫院道二至十號

(i) Anatomical Pathology Laboratory, 13/F, Block G
(ii) Autopsy Service, LG3, Block D
(iii) Chemical Pathology Laboratory, 11/F, Block G
(iv) Microbiology Laboratory, 12/F, Block G (Media preparation at Yan Chai Hospital)
(v) Haematology Laboratory and Blood Bank, 10/F, Block G
(vi) Toxicology Reference Laboratory, 7/F, Block P
(vii) Genetics and Genomics Pathology Laboratory, 6/F, Block G
(viii) Molecular Microbiology and Virology Laboratory, 16/F, Block S

Branch Facility

8 Chung Yan Road, Tung Chung, Lantau, New Territories, Hong Kong
香港新界大嶼山東涌松仁路八號

(i) Clinical Laboratory, 7/F, North Lantau Hospital

LABORATORY DIRECTOR
化驗所主管 : **Pathologist Director 病理學主管:**

Dr LUK Shik
陸奭醫生
MBBS(HK), PDipID(HK), MRCP(UK), FRCPath(UK), FRCPath(HK), FHKAM(Pathology)

ACCREDITED TEST CATEGORY
認可測試類別 : **Medical Testing 醫務化驗**

Anatomical Pathology	解剖病理學
Chemical Pathology	化學病理學
Clinical Microbiology and Infection	臨床微生物學及傳染病
Haematology	血液學
Immunology	免疫學
Medical Genetics (Molecular Genetics)	醫學遺傳學 (分子遺傳學)

Hospital Authority - Princess Margaret Hospital, Department of Pathology
醫院管理局-瑪嘉烈醫院病理部
Autopsy Service: LG3, Block D, Princess Margaret Hospital
瑪嘉烈醫院 D 座地庫三層

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology	**Autopsy** Adult, fetal and perinatal autopsy	Autopsy examination by Routine and special staining	Autopsy method and specimen preparation: For routine audit autopsy procedure, method as documented in WI-MOR-ROU-AAUEN and WI-MOR-ROU-AAUCH. For perinatal autopsy procedure, method as documented in WI-MOR-AUT-PEREN Routine staining: Haematoxylin and Eosin staining Special staining as in Histopathology Method as documented in WI-APL-STA-STAIN

Hospital Authority - Princess Margaret Hospital, Department of Pathology
醫院管理局-瑪嘉烈醫院病理部
Anatomical Pathology Laboratory: 13/F, Block G, Princess Margaret Hospital
瑪嘉烈醫院 G 座十三樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology	**Cytopathology**		
	Fine needle aspirates	Fine needle aspiration cytology examination by H&E, Papanicolau and May-Grunwald Giemsa Staining	Specimen collection and preparation as documented in WI-APL-CYT-FNA Routine staining: Haematoxylin and Eosin stain Papanicolaou stain May-Grunwald Giemsa Stain Methods as documented in WI-APL-STA-STAIN
	Electron microscopy		
	Renal, Skeletal muscle, Nerve, Skin, Peripheral blood, Liver, Bronchial biopsy and Bronchial wash for cilia, Cytology material, Tumour, Misc samples	Histology examination by Transmission Electron Microscopy	Method as documented in WI-APL-TEM-SOP01 and WI-APL-TEM-FEIG2

Hospital Authority - Princess Margaret Hospital, Department of Pathology
醫院管理局-瑪嘉烈醫院病理部
Anatomical Pathology Laboratory: 13/F, Block G, Princess Margaret Hospital
瑪嘉烈醫院 G 座十三樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology (cont'd)	**Histopathology** Surgical pathology	Histology examination by H&E and special staining	Specimen preparation as documented in WI-APL-SPE-RECPT; WI-APL-PRO-OUTLI; WI-APL-EMB-OUTLI and WI-APL-SEC-SECTN. H&E staining (Medite – Tissue Stainer TST30) Special staining (manual method): Method as documented in WI-APL-STA-STAIN. Acid fast bacilli by Ziehl Neelsen Acidic mucins by Alcian blue (pH 0.5 and pH 2.5) or Hale's dialysed iron technique Amyloid by Highma's Congo Red Amyloid by Crystal violet (Hucker & Conn) Axon, nerve endings, neurofibrillary tangles, neurotic plaques by Bielschowsky stain (modified) Azurophilic granules and granulocytes by Giemsa technique Basement membrane by Periodic Acid Silver Methenamine (PASM) Calcium salts by von Kossa Calcium salts by modified von Kossa Collagen and muscle by Masson trichrome Copper by Rhodamine technique Eosinophils by Carbol chromotrope Elastic fibre and connective tissue by Victoria Van Gieson Fibrin by Martius yellow-Brilliant Crystal Scarlet-S-soluble blue Fungi by Grocott hexamine silver Glycol groups by Periodic acid-Schiff (PAS) Gram positive and negative bacteria by Gram Technique Haemosiderin by Perl's Prussian blue Helicobacter pylori by Price's Giemsa Hepatitis B antigens by Shikata's Orcein technique Histological architecture by Haematoxylin & Eosin Hyaluronidasedigestion of Mucins by Alcian blue Lipofuscin by Long Ziehl-Neelsen Melanin, argentaffin, chromaffin cells by Schmorl Melanin, argentaffin, lipofuscin, chromaffincells by Masson Fontana Mucin and capsule of Cryptococcus neoformans by Southgate's mucicarmine

Hospital Authority - Princess Margaret Hospital, Department of Pathology
醫院管理局-瑪嘉烈醫院病理部
Anatomical Pathology Laboratory: 13/F, Block G, Princess Margaret Hospital
瑪嘉烈醫院 G 座十三樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology (cont'd)	**Histopathology (cont'd)** Surgical pathology (cont'd)	Histology examination by H&E and special staining (cont'd)	Special staining (manual method) (cont'd): Mycobacteria (M. leprae) by Wade Fite Normal myelin by Luxol Fast Blue Nemaline rods by Gomori trichrome technique (modified) Periodate reactive carbohydrates by PAS with α-amylase digestion (PASD) Reticulin by Gordon & Sweet's technique Unsaturated cholesterol ester, triglycerides and phospholipids by Sudan Black Unsaturated hydrophobic lipid by Oil red O Urate by Hexamine silver technique
	Intra-operative frozen section for fresh tissue specimens and biopsies	Histology examination by H&E staining	Specimen preparation and H&E staining (manual) as documented in WI-APL-FRZ-UFRZS
	Fresh tissue specimens and biopsies; special specimens	Histology examination and enzyme histochemistry by Special staining (manual) and enzyme histochemistry tests	Specimen preparation as documented in WI-APL-MUS-MUSLE Special staining (manual) for muscle: Method as documented in WI-APL-STA-STAIN. One step Gomori trichrome PAS Oil R O Enzyme histochemistry tests for muscle: Method as documented in WI-APL-ENZ-ENZYM NADH-Tetrazolium Reductase COX COX + SDH Alkaline phosphatase Acid phosphatase Phosphofructokinase Myophosphorylase Enzyme histochemistry tests for rectal biopsy: Method as documented in WI-APL-HIR-HIRSD Acetylcholine esterase

Hospital Authority - Princess Margaret Hospital, Department of Pathology
醫院管理局-瑪嘉烈醫院病理部
Anatomical Pathology Laboratory: 13/F, Block G, Princess Margaret Hospital
瑪嘉烈醫院 G 座十三樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology (cont'd)	**Histopathology (cont'd)** Fresh tissue specimens and biopsies; special specimens (cont'd)	Histology examination and enzyme histochemistry by Special staining (manual) and enzyme histochemistry tests (cont'd)	Handling and processing of nerve biopsy: WI-APL-TEM-SOP01 Handling of un-decal metabolic bone:WI-APL-MET-BONE1 - resin embedding
	Immunohistochemistry Histological specimens	Immunohistochemical examination for various antigen markers by Automated staining method	Slide preparation and staining (Dako Cytomation Austostainer Link48) : Method as documented in WI-APL-IHC-AUSTR Detection system: Dako Cytomation Envision detection system Slide preparation and staining (BOND III): Method as documented in WI-APL-IHC-AUBON Detection system: BOND Polymer Detection Kit Slide preparation and staining (VENTANA Benchmark ULTRA instrument): Method as documented in WI-APL-IHC-ULTRA Detection system: ultraView DAB Detection Kit Antigen retrieval: Dako PT Link with Dako EnVision Flex kit high pH retrieval buffer Trypsin digestion (37°C) Dako PT Link with Dako EnVision Flex kit low pH retrieval buffer Ventana Benchmark Ultra by using the CC1 retrieval reagent

Hospital Authority - Princess Margaret Hospital, Department of Pathology
醫院管理局-瑪嘉烈醫院病理部
Anatomical Pathology Laboratory: 13/F, Block G, Princess Margaret Hospital
瑪嘉烈醫院 G 座十三樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology (cont'd)	**Immunohistochemistry (cont'd)**		
	Renal and skin biopsies	Immunofluorescence examination by	
		Manual method	Specimen preparation and staining by Direct Immunofluorescence (manual): For renal biopsy: IgA / IgM / IgG / C1q/Complement 3/ Fibrinogen / Kappa / Lambda / HBsAg / HBcAg (Documented in WI-APL-REN-RENAL) For skin biopsy: IgA / IgM / IgG /Fibrinogen /Complement 3/ Type IV Collagen (MAB1, MAB3, MAB5)
		Automated method	Specimen preparation and staining by Direct Immunofluorescence (automated): For renal biopsy: IgA / IgM / IgG / C1q / Complement 3 / Fibrinogen / Kappa / Lambda For skin biopsy: IgA / IgM / IgG / Fibrinogen / Complement 3 Method as documented in WI-APL-IMF-IMF

Hospital Authority - Princess Margaret Hospital, Department of Pathology
醫院管理局-瑪嘉烈醫院病理部
Anatomical Pathology Laboratory: 13/F, Block G, Princess Margaret Hospital
瑪嘉烈醫院 G 座十三樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics	**Molecular Genetics (anatomical pathology)**		
	Formalin fixed paraffin embedded tissue	Epstein-Barr Virus Early RNA (EBV EBER) by In-situ Hybridization (ISH)	Slide stainer, BOND-III Method as documented in WI-APL-SOP-MTISH
		Kappa and Lambda mRNA by In-situ Hybridization (ISH)	Slide stainer, BOND-III Method as documented in WI-APL-SOP-MTISH
	Breast and gastric tissues	Amplification of Erb-B2 receptor tyrosine kinase 2 (ERBB2)- HER2 by Fluorescence In-situ Hybridization (FISH)	Fluorescence In-situ Hybridization (FISH) with PathVysion HER-2 DNA Probe and Dako histology FISH accessory kit Analysis with BioView FISH Instrumentation
	Formalin fixed paraffin embedded lung cancer specimens	Detection of Anaplastic Lymphoma Kinase (ALK) gene rearrangement by Fluorescence In-situ Hybridization (FISH)	Fluorescence In-situ Hybridization (FISH) with Vysis Break Apart FISH probe kit and Dako histology FISH accessory kit using method as documented in WI-APL-MGT-ALKFT and WI-MGT-ALKEG Analysis with BioView FISH instrumentation
	Formalin fixed paraffin embedded brain tumour	Detection of deletions involving the human chromosomal regions 1p36.31 and 19q13.32-q13.33 by Fluorescence In-situ Hybridization (FISH)	Fluorescence In-situ Hybridization (FISH) with Vysis LSI 1p36 SpectrumOrange/1q25 SpectrumGreen Probes and Vysis LSI 19q13 SpectrumOrange/19p13 SpectrumGreen Probes Kit and Dako histology FISH accessory kit using method as documented in WI-APL-MGT-FISHT Analysis with BioView FISH instrumentation
	Formalin fixed paraffin embedded tissue	Detection of *ROS1* gene rearrangement in chromosomal region 6q22.1 by Fluorescence In-situ Hybridization (FISH)	Fluorescence In-situ Hybridization (FISH) with Zytovision ROS1 dual color break apart probe and Dako histology FISH accessory kit using method as documented in WI-APL-MGT-FISHT Analysis with BioView FISH instrumentation

Hospital Authority - Princess Margaret Hospital, Department of Pathology
醫院管理局-瑪嘉烈醫院病理部
Chemical Pathology Laboratory: 11/F, Block G, Princess Margaret Hospital
瑪嘉烈醫院 G 座十一樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology	**Biogenic Amine** Urine	Adrenaline by Liquid chromatography-tandem mass spectrometry (LC-MS/MS)	Methods as documented in WI-CCP-TSM-TCAT using Waters Xevo TQS LCMS/MS
		Dopamine by Liquid chromatography-tandem mass spectrometry (LC-MS/MS)	Methods as documented in WI-CCP-TSM-TCAT using Waters Xevo TQS LCMS/MS
		Noradrenaline by Liquid chromatography-tandem mass spectrometry (LC-MS/MS)	Methods as documented in WI-CCP-TSM-TCAT using Waters Xevo TQS LCMS/MS
		Homovanillic acid by Liquid chromatography-tandem mass spectrometry (LC-MS/MS)	Methods as documented in WI-CCP-TSM-THIAA using Waters Xevo TQS LCMS/MS
		Metanephrine by Liquid chromatography-tandem mass spectrometry (LC-MS/MS)	Methods as documented in WI-CCP-TSM-TCAT using Waters Xevo TQS LCMS/MS
		Normetanephrine by Liquid chromatography-tandem mass spectrometry (LC-MS/MS)	Methods as documented in WI-CCP-TSM-TCAT using Waters Xevo TQS LCMS/MS
		3-Methoxytyramine by Liquid chromatography-tandem mass spectrometry (LC-MS/MS)	Methods as documented in WI-CCP-TSM-TCAT using Waters Xevo TQS LCMS/MS
		5-Hydroxyindoleacetic acid by Liquid chromatography-tandem mass spectrometry (LC-MS/MS)	Methods as documented in WI-CCP-TSM-THIAA using Waters Xevo TQS LCMS/MS

Hospital Authority - Princess Margaret Hospital, Department of Pathology
醫院管理局-瑪嘉烈醫院病理部
Chemical Pathology Laboratory: 11/F, Block G, Princess Margaret Hospital
瑪嘉烈醫院 G 座十一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**Blood gases and co-oximetry**		
	Heparinized blood	Blood Gas include:	
		pCO_2 by	
		Potentiometry	Siemens RL 1265 Blood Gas Analyzer
		pH by	
		Potentiometry	Siemens RL 1265 Blood Gas Analyzer
		pO_2 by	
		Potentiometry	Siemens RL 1265 Blood Gas Analyzer
		Base Excess by	
		Auto calculation	Siemens RL 1265 Blood Gas Analyzer
		Bicarbonate by	
		Auto calculation	Siemens RL 1265 Blood Gas Analyzer
		O_2 Saturation by	
		Auto calculation	Siemens RL 1265 Blood Gas Analyzer
		Carboxyhaemoglobin by	
		Co-oximetry	Siemens RL 1265 Blood Gas Analyzer
		Ionized Calcium by	
		Potentiometry	Siemens RL 1265 Blood Gas Analyzer
		Methaemoglobin by	
		Co-oximetry	Siemens RL 1265 Blood Gas Analyzer

Hospital Authority - Princess Margaret Hospital, Department of Pathology
醫院管理局-瑪嘉烈醫院病理部
Chemical Pathology Laboratory: 11/F, Block G, Princess Margaret Hospital
瑪嘉烈醫院 G 座十一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**General Chemistry**		
	Plasma	Alanine Aminotransferase (ALT) by Spectrophotometry	Roche cobas 8000 system, ALTPM assay
	Fluid, plasma	Albumin by Spectrophotometry	Roche cobas 8000 system, ALBP assay
	Urine	Albumin by Spectrophotometry	Roche cobas 8000 system, ALBT2 assay
	Plasma	Alkaline Phosphatase (ALP) by Spectrophotometry	Roche cobas 8000 system, ALP2 assay
		Ammonia by Spectrophotometry	Roche cobas 8000 system, NH3L2 assay
	Fluid, plasma, urine	Amylase by Spectrophotometry	Roche cobas 8000 system, AMYL2 assay
	Plasma	Aspartate Aminotransferase (AST) by Spectrophotometry	Roche cobas 8000 system, ASTPM assay
		Bicarbonate by Spectrophotometry	Roche cobas 8000 system, CO2-L assay
		Bilirubin, Direct by Spectrophotometry	Roche cobas 8000 system, BILD2 assay
	Fluid, plasma	Bilirubin, Total by Spectrophotometry	Roche cobas 8000 system, BILT3 assay
	Fluid, plasma, urine	Calcium by Spectrophotometry	Roche cobas 8000 system, CA2 assay
		Chloride by Potentiometry	Roche cobas 8000 system, ISE-CL assay
	Plasma, fluid	Cholesterol, Total by Spectrophotometry	Roche cobas 8000 system, CHOL2 assay

Hospital Authority - Princess Margaret Hospital, Department of Pathology
醫院管理局-瑪嘉烈醫院病理部
Chemical Pathology Laboratory: 11/F, Block G, Princess Margaret Hospital
瑪嘉烈醫院 G 座十一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**General Chemistry (cont'd)**		
	Plasma	Cholesterol High Density Lipoprotein, (HDL-C) by Spectrophotometry	Roche cobas 8000 system, HDLC4 assay
		Cholesterol Low Density Lipoprotein, (LDL-C) by Spectrophotometry	Roche cobas 8000 system, LDLC3 assay
		Creatine Kinase (CK) by Spectrophotometry	Roche cobas 8000 system, CK2 assay
	Fluid, plasma, urine	Creatinine by Enzymatic method	Roche cobas 8000 system, CREA2 assay
	Plasma	Gamma Glutamyl Transferase (GGT) by Spectrophotometry	Roche cobas 8000 system, GGT-2 assay
	CSF, plasma, fluid	Glucose by Enzymatic method	Roche cobas 8000 system, GLUC3 assay
	Serum	Iron by Spectrophotometry	Roche cobas 8000 system, IRON2 assay
	CSF, plasma	Lactate by Spectrophotometry	Roche cobas 8000 system, LACT2 assay
	Fluid, plasma	Lactate dehydrogenase (LDH) by Spectrophotometry	Roche cobas 8000 system, LDHI2 assay
	Plasma, urine	Magnesium by Spectrophotometry	Roche cobas c502 system, MG-2 assay
		Osmolality by Freezing Point Depression	Arkray osmo station
	Fluid, urine	pH by Potentiometry	Thermo Scientific Orion Star A111 pH Benchtop Meter

Hospital Authority - Princess Margaret Hospital, Department of Pathology
醫院管理局-瑪嘉烈醫院病理部
Chemical Pathology Laboratory: 11/F, Block G, Princess Margaret Hospital
瑪嘉烈醫院 G 座十一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**General Chemistry (cont'd)**		
	Fluid, plasma, urine	Phosphate by Spectrophotometry	Roche cobas 8000 system, PHOS2 assay
		Potassium by Potentiometry	Roche cobas 8000 system, ISE-K assay
	CSF	Protein, Total by Turbidimetry	Roche cobas 8000 system, TPC3 assay
	Fluid, plasma	Protein, Total by Spectrophotometry	Roche cobas 8000 system, TP2 assay
	Fluid, plasma, urine	Sodium by Potentiometry	Roche cobas 8000 system, ISE-NA assay
	Plasma, fluid,	Triglycerides by Spectrophotometry	Roche cobas 8000 system, TRIGL assay
	Plasma	Triglycerides-Glycerol Blanked by Spectrophotometry	Roche cobas 8000 system, Triglycerides/Glycerol Blanked assay
	Serum	Unsaturated Iron Binding Capacity (UIBC) by Spectrophotometry	Roche cobas 8000 system, UIBC assay
	Fluid, plasma, urine	Urea by Spectrophotometry	Roche cobas 8000 system, UREAL assay
	Plasma, urine	Uric acid by Spectrophotometry	Roche cobas 8000 system, UA2 assay

Hospital Authority - Princess Margaret Hospital, Department of Pathology
醫院管理局-瑪嘉烈醫院病理部
Chemical Pathology Laboratory: 11/F, Block G, Princess Margaret Hospital
瑪嘉烈醫院 G 座十一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**Hormones** EDTA plasma	Adrenocorticotrophic Hormone (ACTH) by Immunoassay (Electrochemiluminescence label)	Roche cobas 8000 system, Elecsys ACTH assay
	Serum	Cortisol by Immunoassay (Electrochemiluminescence label)	Roche cobas 8000 system, Elecsys Cortisol II assay
		Estradiol (E2) by Immunoassay (Electrochemiluminescence label)	Roche cobas 8000 system, Elecsys Estradiol III assay
		Follicle stimulating hormone (FSH) by Immunoassay (Electrochemiluminescence label)	Roche cobas 8000 system, Elecsys FSH assay
		Human chorionic gonadotrophin (β-HCG), Total by Immunoassay (Electrochemiluminescence label)	Roche cobas 8000 system, Elecsys HCG-BETA assay
		Insulin by Immunoassay (Electrochemiluminescence label)	Roche cobas 8000 system, Elecsys Insulin assay
		Luteinizing hormone (LH) by Immunoassay (Electrochemiluminescence label)	Roche cobas 8000 system, Elecsys LH assay
		Parathyroid hormone (PTH) by Immunoassay (Electrochemiluminescence label)	Roche cobas 8000 system, Elecsys PTH assay

Hospital Authority - Princess Margaret Hospital, Department of Pathology
醫院管理局-瑪嘉烈醫院病理部
Chemical Pathology Laboratory: 11/F, Block G, Princess Margaret Hospital
瑪嘉烈醫院 G 座十一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**Hormones (cont'd)** Serum (cont'd)	Progesterone by Immunoassay (Electrochemiluminescence label)	Roche cobas 8000 system, Elecsys Progesterone III assay
		Prolactin by Immunoassay (Electrochemiluminescence label)	Roche cobas 8000 system, Elecsys Prolactin II assay
		Macroprolactin screening by PEG precipitation	Methods as documented in WI-CCP-TSM-IMPRL using Roche cobas 8000 system, Elecsys Prolactin II assay
		Testosterone by Immunoassay (Electrochemiluminescence label)	Roche cobas 8000 system, Elecsys Testosterone II assay
		Thyroid stimulating hormone (TSH) by Immunoassay (Electrochemiluminescence label)	Roche cobas 8000 system, Elecsys TSH assay
		Thyroxine, Free (FT4) by Immunoassay (Electrochemiluminescence label)	Roche cobas 8000 system, Elecsys FT4 IV assay
		Tri-iodothyronine, Free (FT3) by Immunoassay (Electrochemiluminescence label)	Roche cobas 8000 system, Elecsys FT3 III assay
	Inborn Errors of Metabolism Plasma	Acylcarnitine profile by Liquid Chromatography-Mass Spectrometry (LC-MS/MS)	Methods as documented in WI-CCP-TSM-TPAC using Waters Xevo TQ
	Plasma	Beta-hydroxybutyrate by Spectrophotometry	Roche cobas 8000 system, Randox D-3-Hydroxybutyrate assay
	Urine	Metabolic profile by Liquid Chromatography-Tandem Mass Spectrometry (LC-MS/MS)	Methods as documented in WI-CCP-TSM-TUMPLC using Waters Xevo TQ

Hospital Authority - Princess Margaret Hospital, Department of Pathology
醫院管理局-瑪嘉烈醫院病理部
Chemical Pathology Laboratory: 11/F, Block G, Princess Margaret Hospital
瑪嘉烈醫院 G 座十一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**Inborn Errors of Metabolism (cont'd)**		
	Urine (cont'd)	Mucopolysaccharides by Electrophoresis	Methods as documented in WI-CCP-TSM-TUMUC using Beckman Electrophoresis analyser
	Urine	Reducing substances, qualitative by Colorimetric method	Methods as documented in WI-CCP-TSM-TURS using Fisher Scientific Benedict's reagent
		Sulphite by Dipstick method	Merck, Merckoquant Sulfite Test Strip
	Protein, qualitative analysis		
	Serum	Cryoglobulin by Precipitation in cold	Methods as documented in WI-CCP-TSM-TCRY
	Protein, quantitative analysis		
	Serum	C-Reactive Protein (CRP) by Immunoturbidimetry	Roche cobas 8000 system, CRP4 assay
		Ferritin by Immunoassay (Electrochemiluminescence label)	Roche cobas 8000 system, Elecsys Ferritin assay

Hospital Authority - Princess Margaret Hospital, Department of Pathology
醫院管理局-瑪嘉烈醫院病理部
Chemical Pathology Laboratory: 11/F, Block G, Princess Margaret Hospital
瑪嘉烈醫院 G 座十一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**Special Chemistry**		
	Urine	Chyle by Microscopy	Methods as documented in WI-CCP-TSM-TUCHY
	Serum	Indocyanine green by Spectrophotometry	Methods as documented in WI-CCP-TSM-TICG using Agilent Cary 60 UV-Vis spectrophotometer
	Urine	Porphobilinogen by Spectrophotometry	Methods as documented in WI-CCP-TSM-TUPBG using Agilent Cary 60 UV-Vis spectrophotometer
		Porphyrins by Spectrophotometry	Methods as documented in WI-CCP-TSM-TUPOR using Agilent Cary 60 UV-Vis spectrophotometer

Hospital Authority - Princess Margaret Hospital, Department of Pathology
醫院管理局-瑪嘉烈醫院病理部
Chemical Pathology Laboratory: 11/F, Block G, Princess Margaret Hospital
瑪嘉烈醫院 G 座十一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**Therapeutic Drug Monitoring**		
	Serum	Amikacin by Immunoassay (Kinetic interaction of microparticles in solution)	Roche cobas 8000 system, AMIK2 assay
		Carbamazepine by Immunoassay (Kinetic interaction of microparticles in solution)	Roche cobas 8000 system, CARB4 assay
	EDTA blood	Cyclosporin A by Liquid chromatography-tandem mass spectrometry (LC-MS/MS)	Methods as documented in WI-CCP-TSM-YCYCTQS using Waters TQS LCMS/MS
	Serum	Digoxin by Immunoassay (Kinetic interaction of microparticles in solution)	Roche cobas 8000 system, DIG assay
		Gentamicin by Immunoassay (Kinetic interaction of microparticles in solution)	Roche cobas 8000 system, GENT2 assay
		Lithium by Spectrophotometry	Roche cobas 8000 system, LI assay
		Methotrexate by Spectrophotometry	Roche cobas 8000 system, ARK Methotrexate assay
		Phenobarbital by Immunoassay (Kinetic interaction of microparticles in solution)	Roche cobas 8000 system, PHNO2 assay
		Phenytoin by Immunoassay (Kinetic interaction of microparticles in solution)	Roche cobas 8000 system, PHNY2 assay
	EDTA blood	Tacrolimus by Liquid chromatography-tandem mass spectrometry (LC-MS/MS)	Methods as documented in WI-CCP-TSM-YTACTQS using Waters TQS LCMS/MS
	Serum	Theophylline by Immunoassay (Kinetic interaction of microparticles in solution)	Roche cobas 8000 system, THEO2 assay

Hospital Authority - Princess Margaret Hospital, Department of Pathology
醫院管理局-瑪嘉烈醫院病理部
Chemical Pathology Laboratory: 11/F, Block G, Princess Margaret Hospital
瑪嘉烈醫院 G 座十一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**Therapeutic Drug Monitoring (cont'd)**		
	Serum (cont'd)	Valproate by Immunoassay (Kinetic interaction of microparticles in solution)	Roche cobas 8000 system, VALP2 assay
		Vancomycin by Immunoassay (Kinetic interaction of microparticles in solution)	Roche cobas 8000 system, VANC3 assay

Hospital Authority - Princess Margaret Hospital, Department of Pathology
醫院管理局-瑪嘉烈醫院病理部
Chemical Pathology Laboratory: 11/F, Block G, Princess Margaret Hospital
瑪嘉烈醫院 G 座十一樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**Toxicology**		
	Serum	Acetaminophen (Paracetamol) by	
		Enzymatic method	Roche cobas 8000 system, ACET2 assay
		Cholinesterase by	
		Spectrophotometry	Roche cobas 8000 system, CHE2 assay
	Gastric lavage, urine	Cyanide, Screening by	
		Colorimetric method	Merck analytical Cyanide test strips
	Serum	Ethanol by	
		Spectrophotometry	Roche cobas 8000 system, ETOH2 assay
		Methanol, Screening by	
		Colorimetric method	Methods as documented in WI-CCP-TSM-EMETH
	Urine	Paraquat, Screening by	
		Colorimetric method	Methods as documented in WI-CCP-TSM-TPARQ
	Serum	Salicylate by	
		Spectrophotometry	Roche cobas 8000 system, SALI assay

Hospital Authority - Princess Margaret Hospital, Department of Pathology
醫院管理局-瑪嘉烈醫院病理部
Chemical Pathology Laboratory: 11/F, Block G, Princess Margaret Hospital
瑪嘉烈醫院 G 座十一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**Tumour Markers** Serum	Alpha-fetoprotein (AFP) by Immunoassay (Electrochemiluminescence label)	 Roche cobas 8000 system, Elecsys AFP assay
		CA 125 by Immunoassay (Electrochemiluminescence label)	 Roche cobas 8000 system, Elecsys CA 125 II assay
		CA 19-9 by Immunoassay (Electrochemiluminescence label)	 Roche cobas 8000 system, Elecsys CA 19-9 assay
		Carcinoembryonic antigen (CEA) by Immunoassay (Electrochemiluminescence label)	 Roche cobas 8000 system, Elecsys CEA assay
		Chromogranin A by Immunofluorescent assay	 Thermo Scientific Kryptor Compact Plus Immunoanalyser B.R.A.H.M.S. CgA II Assay
		Prostate specific antigen (PSA) by Immunoassay (Electrochemiluminescence label)	 Roche cobas 8000 system, Elecsys total PSA assay
		Free prostate specific antigen by Immunoassay (Electrochemiluminescence label)	 Roche cobas 8000 system, Elecsys free PSA assay
	Urinalysis Urine	Myoglobin by Dipstick method	 Bayer Haemastix reagent strips
		Urobilinogen by - Dipstick method - Confirmatory test by Ehrlich's reagent	 Roche ComburTest® Test Strip Methods as documented in WI-CCP-TSM-TURO

Hospital Authority - Princess Margaret Hospital, Department of Pathology
醫院管理局-瑪嘉烈醫院病理部
Chemical Pathology Laboratory: 11/F, Block G, Princess Margaret Hospital
瑪嘉烈醫院 G 座十一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Immunology	**Immunochemistry** Serum	C3 Complement (C3) by Immunoturbidimetry	Roche cobas 8000 system, C3C-2 assay
		C4 Complement (C4) by Immunoturbidimetry	Roche cobas 8000 system, C4-2 assay
		Ceruloplasmin by Immunoturbidimetry	Roche cobas 8000 system, CERU assay
		Haptoglobin by Immunoturbidimetry	Roche cobas 8000 system, HAPT2 assay
		Immunoglobulins IgA by Immunoturbidimetry	Roche cobas 8000 system, IgA-2 assay
		Immunoglobulins IgG by Immunoturbidimetry	Roche cobas 8000 system, IgG-2 assay
		Immunoglobulins IgM by Immunoturbidimetry	Roche cobas 8000 system, IgM-2 assay
		Thyroglobulin by Immunoassay	Roche cobas 8000 system, Tg II assay
		Vitamin D by Immunoassay (Electrochemiluminescence label)	Roche cobas 8000 system, Elecsys Vitamin D total III assay

Hospital Authority - Princess Margaret Hospital, Department of Pathology
醫院管理局-瑪嘉烈醫院病理部
Microbiology Laboratory: 12/F, Block G, Princess Margaret Hospital
瑪嘉烈醫院 G 座十二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection	**Bacteriology – Culture and sensitivity and/or gram microscopy**		
	Blood Culture	Culture and antimicrobial susceptibility tests for pathogens by	
		Aerobic and anaerobic broth culture	Method as documented in WI-MIC-BAC-BLOOD BACT/ALERT Method as documented in WI-MIC-BAC-BLOOD Blood culture BD BACTEC FX
	CSF	Microscopy for - Cell count by Counting chamber - Microorganisms by Gram Stain - Encapsulated yeast by India Ink Stain	Method as documented in WI-MIC-BAC-CSFCU
		Microscopy for - Cell count by automated method	Sysmex XN-350
		Culture and antimicrobial susceptibility tests for pathogens by Aerobic and CO_2 culture	Method as documented in WI-MIC-BAC-CSFCU
	Enteric samples (including stool and rectal swab)	Culture and antimicrobial susceptibility tests for enteric pathogens by Aerobic, anaerobic and microaerophilic culture	Method as documented in WI-MIC-BAC-FECAL
	Genital samples (including HVS, endo-cervical swab, urethral swab, etc.)	Microscopy for cell morphology and microorganisms by Gram Stain	Method as documented in WI-MIC-BAC-GENIT
		Culture and antimicrobial susceptibility tests for pathogens by Aerobic and CO_2 culture	Method as documented in WI-MIC-BAC-GENIT

Hospital Authority - Princess Margaret Hospital, Department of Pathology
醫院管理局-瑪嘉烈醫院病理部
Microbiology Laboratory: 12/F, Block G, Princess Margaret Hospital
瑪嘉烈醫院 G 座十二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Bacteriology – Culture and sensitivity and/or gram microscopy (cont'd)**		
	Miscellaneous samples (including body fluid, swab, pus, tissue etc.)	Microscopy for cell morphology and microorganisms by	
		Gram Stain	Method as documented in WI-MIC-BAC-MISCU Method as documented in WI-MIC-BAC-BODYF
		Cell count (internal body fluid) by	
		counting chamber	Method as documented in WI-MIC-BAC-BODYF
		automated method	Sysmex XN-350
		Culture and antimicrobial susceptibility tests for pathogens by	
		Aerobic, CO_2 and anaerobic culture	Method as documented in WI-MIC-BAC-BODYF Method as documented in WI-MIC-BAC-MISCU
	Lower respiratory tract samples (including sputum, bronchial aspirate, tracheal aspirate etc.)	Microscopy for cell morphology and microorganisms by	
		Gram Stain	Method as documented in WI-MIC-BAC-LORTI
		Culture and antimicrobial susceptibility tests for respiratory tract pathogens by	
		Aerobic and CO_2 culture	Method as documented in WI-MIC-BAC-LORTI
	Bronchioalveolar lavage (BAL) and Protected bronchial brush	Microscopy for cell morphology and microorganisms by	
		Gram Stain	Method as documented in WI-MIC-BAC-LORTI
		Quantitative culture and antimicrobial susceptibility tests for pathogens by	
		Aerobic and CO_2 culture	Method as documented in WI-MIC-BAC-LORTI
	Upper respiratory tract samples (including throat swab, nasal swab etc.)	Culture and antimicrobial susceptibility tests for respiratory tract pathogens by	
		Aerobic and CO_2 culture	Method as documented in WI-MIC-BAC-UPRTI
	Urine	Culture and antimicrobial susceptibility tests for pathogens by	
		Standard loop method	Method as documented in WI-MIC-BAC-URINE

Hospital Authority - Princess Margaret Hospital, Department of Pathology
醫院管理局-瑪嘉烈醫院病理部
Microbiology Laboratory: 12/F, Block G, Princess Margaret Hospital
瑪嘉烈醫院 G 座十二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Bacteriology – Serology**		
	Urine	Detection of *Legionella pneumophila* serogroup 1 antigen in urine by	
		Rapid immunochromatographic assay	Binax NOW *Legionella* Urinary Antigen Test
		Detection of *Streptococcus pneumoniae* antigen in urine by	
		Rapid immunochromatographic assay	Binax NOW *Streptococcus pneumoniae* Urinary Antigen Test
	Miscellaneous		
	Urine	Pregnancy Test (Urine hCG) by	
		Rapid chromatographic Immunoassay for the qualitative detection of human chorionic gonadotropin in urine	SureStep One Step hCG Pregnancy Test
	Autoclave biological indicator	Processing of autoclave biological indicator	3M Attest 1262 B.I./Steam
	Clotted blood	Human procalcitonin, PCT by	
		Enzyme-linked Fluorescent Assay	bioMerieux VIDAS® B·R·A·H·M·S PCT™ Assay using VIDAS 3
		Immunoassay (Chemiluminescent label)	Abbott Alinity i BRAHMS PCT reagent Assay Method as documented in WI-MIC-BAC-PCT ALINITY
	Mycobacteriology - Microscopy		
	Respiratory specimens	Microscopy for acid fast bacilli (AFB) by - Auramine O fluorescent stain - Ziehl-Neelsen stain	Method as documented in WI-MIC-BAC-STAIN
	Mycology – Culture, ID and serology		
	Blood culture, bone marrow, samples from central nervous system, enteric samples, genital samples, respiratory samples, miscellaneous samples (including body fluid, swab, pus, tissue etc.), and urological samples	Culture for fungi and identification by Conventional method	Method as documented in WI-MIC-BAC-MYCOL

Hospital Authority - Princess Margaret Hospital, Department of Pathology
醫院管理局-瑪嘉烈醫院病理部
Microbiology Laboratory: 12/F, Block G, Princess Margaret Hospital
瑪嘉烈醫院 G 座十二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Mycology – Culture, ID and serology (cont'd)**		
	Nasal, axilla and Groin swabs	*Candida auris* culture	Chrom agar culture Method as documented in WI-MIC-BAC-MDROS Multi-drug resistant organisms screening
	CSF & Serum	Cryptococcal antigen by - Qualitative latex agglutination test - Quantitative latex agglutination test	Meridian Bioscience Cryptococcal Antigen Latex Agglutination System (CALAS)
	Serum	Galactomannan(*Aspergillus* antigen) by one-stage immunoenzymatic sandwich microplate assay	Platelia™ *Aspergillus* Ag test kit

Hospital Authority - Princess Margaret Hospital, Department of Pathology
醫院管理局-瑪嘉烈醫院病理部
Microbiology Laboratory: 12/F, Block G, Princess Margaret Hospital
瑪嘉烈醫院 G 座十二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Mycology - Microscopy** Dermatological samples (including tissue, skin, hair and nail)	Microscopy for fungal filaments and yeasts by KOH preparation	Method as documented in WI-MIC-BAC-MYCOL
	BAL	Microscopy for - Fungal filament by Calcofluor white Stain	Method as documented in WI-MIC-BAC-MYCOL
		- Yeasts by Gram Stain	Method as documented in WI-MIC-BAC-MYCOL
	Parasitology - Microscopy and Staining Stool	Microscopy for enteric parasites by Concentration method	Method as documented in WI-MIC-BAC-PARAS
		Microscopy for Amoeba by Direct smear and concentration method	Method as documented in WI-MIC-BAC-PARAS
		Microscopy for fecal protozoa by - Wheatley's trichrome stain	Method as documented in WI-MIC-BAC-PARAS
		- Acid fast trichrome stain	Method as documented in WI-MIC-BAC-PARAS
	Parasitology – Serology Serum	*Entamoeba histolytica* antibody by Immunoassay (Enzyme-based label) (IgG)	RIDASCREEN *Entamoeba histolytica* IgG Method as documented in WI-MIC-VIR-AMOAB Antibody Amoebiasis Antibody Bordier *Entamoeba histolytica* ELISA kit Method as documented in WI-MIC-VIR-AMOAB Amoebiasis Antibody
	Syphilis - Serology Serum	*Treponema pallidum* antibody by Immunoassay (Chemiluminescent label)	Abbott Alinity i Syphilis TP reagent Assay

Hospital Authority - Princess Margaret Hospital, Department of Pathology
醫院管理局-瑪嘉烈醫院病理部
Microbiology Laboratory: 12/F, Block G, Princess Margaret Hospital
瑪嘉烈醫院 G 座十二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Urinalysis and/or urine microscopy** Urine	Urine chemical test by visual, including: - Glucose - Protein	Method as documented in WI-MIC-BAC-URINE
		Urine formed elements by Microscopic examination with fixed volume in microtitre plate	Method as documented in WI-MIC-BAC-URINE
		Human urine particles by Flow Cytometry	Automated System: Sysmex UF-5000 Urine Particle Analyser Method as documented in WI-MIC-BAC-URINE

Hospital Authority - Princess Margaret Hospital, Department of Pathology
醫院管理局-瑪嘉烈醫院病理部
Microbiology Laboratory: 12/F, Block G, Princess Margaret Hospital
瑪嘉烈醫院 G 座十二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Virology - Serology** Serum	Cytomegalovirus antibody by Immunoassay (Chemiluminescent label)	 Abbott Alinity i CMV IgG Assay
		Hepatitis A virus antibody (IgM) by Immunoassay (Chemiluminescent label)	 Abbott Alinity i HAVAb IgM Assay
		Hepatitis B virus antibody anti-HBs (Semi-Quantitative) by Immunoassay (Chemiluminescent label)	 Abbott Alinity i HBsAb (AUSAB) Assay
		anti-HBc by - Immunoassay (Chemiluminescent label) (IgM) - Immunoassay (Chemiluminescent label) (Total)	 Abbott Alinity i HBc IgM Assay Abbott Alinity i HBcAb Assay
		anti-HBe by Immunoassay (Chemiluminescent label)	 Abbott Alinity i HBeAbAssay
		Hepatitis B virus antigen HBsAg by Immunoassay (Chemiluminescent label)	 Abbott Alinity i HBsAg qualitative Assay Abbott Alinity i HBsAg Confirmatory Assay
		HBeAg by Immunoassay (Chemiluminescent label)	 Abbott Alinity i HBeAg Assay
		Hepatitis C virus antibody by Immunoassay (Chemiluminescent label)	 Abbott Alinity i anti-HCV Assay
		Human immunodeficiency virus antibody by - Immunoassay (Chemiluminescent label) - Enzyme-linked Fluorescent Assay (ELFA)	 Abbott Alinity i anti-HIV Combo Assay bioMerieux Vitek ImmunoDiagnostic Assay (VIDAS) HIV DUO for anti-HIV 1 and/or anti-HIV 2
		Varicella zoster virus antibody by - Enzyme-linked Fluorescent Assay (ELFA)	 bioMerieux VIDAS Varicella-zoster IgG Assay

Hospital Authority - Princess Margaret Hospital, Department of Pathology
醫院管理局-瑪嘉烈醫院病理部
Microbiology Laboratory: 12/F, Block G, Princess Margaret Hospital
瑪嘉烈醫院 G 座十二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Molecular Genetics (microbiology)** CSF	Central Nervous System (CNS) pathogens detection by Multiplex Polymerase Chain Reaction, qualitative (Target region: *Escherichia coli* K1, *Haemophilus influenza,* *Listeria monocytogenes,* *Neisseria meningitidis* (encapsulated), *Streptococcus agalactiae,* *Streptococcus pneumoniae,* *Cytomegalovirus, Enterovirus,* *Herpes simplex virus 1,* *Herpes simplex virus 2,* *Human herpesvirus 6,* *Human parechovirus,* *Varicella zoster virus, and* *Cryptococcus neoformans/gattii:* *proprietary)*	FilmArray Meningitis/Encephalitis (ME) panel Nucleic acid extraction, amplification and detection by FilmArray Meningitis/Encephalitis (ME) panel Method as documented in WI-MIC-VIR-FAME Multiplex PCR for pathogens detection in CSF by FilmArray Meningitis Encephalitis Panel

Hospital Authority - Princess Margaret Hospital, Department of Pathology
醫院管理局-瑪嘉烈醫院病理部
Molecular Microbiology and Virology Laboratory: 16/F, Block S, Princess Margaret Hospital
瑪嘉烈醫院 S 座十六樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection	**Bacteriology - Serology** Serum	Brucella antibody by Agglutination test	Method as documented in WI-MIC-VIR-BRUCE
		Scrub typhus group antibody by Indirect Immunofluorenscence Test	Method as documented in WI-MIC-VIR-RICKE using Australia Rickettsial Reference Lab IFA slides
		Spotted fever group antibody by Indirect Immunofluorenscence Test	Method as documented in WI-MIC-VIRC-RICKE using Australia Rickettsial Reference Lab IFA slides
		Streptolysin O antibody by polystyrene particle agglutination assay	Rheumajet ASO
		Typhus group antibody by Indirect Immunofluorenscence Test	Method as documented in WI-MIC-VIR-RICKE using Australia Rickettsial Reference Laboratory IFA slides

Hospital Authority - Princess Margaret Hospital, Department of Pathology
醫院管理局-瑪嘉烈醫院病理部
Molecular Microbiology and Virology Laboratory: 16/F, Block S, Princess Margaret Hospital
瑪嘉烈醫院 S 座十六樓

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics	**Molecular Genetics (microbiology)** EDTA Blood	Hepatitis B virus – detection by Real time Polymerase Chain Reaction, quantitative (Target region: precore/core region)	Real Time PCR using Roche cobas HBV Nucleic acid extraction by Roche cobas x 480 instrument Nucleic acid amplification and detection by Roche cobas z 480 analyzer
		Hepatitis C virus – detection by Real time Polymerase Chain Reaction, quantitative (Target region: 5' NTR)	Real Time PCR using Roche cobas HCV Nucleic acid extraction by Roche cobas x 480 instrument Nucleic acid amplification and detection by Roche cobas z 480 analyzer
		Hepatitis C virus – genotyping by Real time Polymerase Chain Reaction (Target region: 5'UTR, Core and NS5B gene)	Real Time PCR using Roche cobas HCV GT Nucleic acid extraction by Roche cobas x 480 instrument Nucleic acid amplification and detection by Roche cobas z 480 analyzer
		Hepatitis C virus – detection and genotyping by Reverse Transcription Polymerase Chain Reaction (RT-PCR) and Sequencing of PCR Product (Target region: 5' Untranslated region)	RT-PCR and sequencing *Primer and test conditions*: Young Y et. al. Detection of hepatitis C virus RNA by a combined reverse transcription polymerase chain reaction assay Journal of Clinical Microbiology 1993; 31: 882-886 DNA sequencing using ABI 3130x Genetic Analyzer
		Human immunodeficiency virus-1 viral load - quantitative determination of RNA by Target capture, transcription mediated amplification, and detection of amplified products by fluorescent labelled probes (Target region : pol and LTR region of HIV-1 Genome)	Hologic Aptima HIV-1 Quant Dx Assay Nucleic acid extraction by Hologic Panther Nucleic acid amplification and detection by Hologic Panther as documented in WI-MIC-VIR-HIVQ Hologic Aptima HIV-1 RNA Quantification Test

Hospital Authority - Princess Margaret Hospital, Department of Pathology
醫院管理局-瑪嘉烈醫院病理部
Molecular Microbiology and Virology Laboratory: 16/F, Block S, Princess Margaret Hospital
瑪嘉烈醫院 S 座十六樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics (cont'd)	**Molecular Genetics (microbiology) (cont'd)** EDTA blood (cont'd)	Human immunodeficiency virus-1 Genotyping Resistance test (HIV-1 GRT) by Detection of HIV-1 genomic mutations that confer resistance to specific antiretroviral drugs (Target region: pol gene of HIV-1 Genome)	HIV-1 genotyping Resistance Test (HIV-1 GRT) Nucleic acid extraction, amplification and sequencing by ViroSeq HIV-1 Genotyping System v2.0 PCR amplification by using ABI Veriti thermal cycler sequencing using ABI 3500xL sequencer Method as documented in WI-MIC-VIR-HIVGRT Test (POL gene) ViroSeq HIV-1 Genotyping Resistance Test and WI-MIC-VIR-ABI3500xL Operation guide of ABI 3500xL sequencer HIV-1 genotyping Resistance Test (HIV-1 GRT) Nucleic acid extraction by EZ1&2 Virus Mini Kit v2.0 and EZ1 Advanced XL instruments PCR amplification and sequencing by Thermo Fisher HIV-1 Genotyping Kit: Amplification and cycle sequencing module PCR amplification using ABI Veriti thermal cycler/Proflex and sequencing using ABI 3500xL Method as documented in WI-MIC-VIR-HIV1GRT ABI HIV-1 Genotyping Resistance Test
	Respiratory Samples (Nasopharyngeal aspirate (NPA), nasopharyngeal swab (NPS), throat & nasal swabs)	*Chlamydia pneumoniae* – detection by Real time Polymerase Chain Reaction, qualitative (Target region: J38 genomic region)	Nucleic acid extraction by NucliSENS easyMAG automated nucleic acid extraction system or Roche Diagnostics High Pure PCR Template Preparation Kit Nucleic acid amplification and detection as documented in WI-MIC-VIR-CPPCR using LightCycler 2.0, Roche
	Respiratory Samples (Nasopharyngeal aspirate (NPA), bronchioalveolar lavage (BAL), endotracheal aspirate (ETA) & sputum)	Human Metapneumovirus (MPV) – detection by Real time Polymerase Chain Reaction, qualitative (Target region: viral fusion protein gene)	Nucleic acid extraction by MagNA Pure 96 automated nucleic acid extraction system or NucliSENS easyMAG automated nucleic acid extraction system Nucleic acid amplification and detection as documented in WI-MIC-VIR-HPMV using LightCycler 480 II, Roche

Hospital Authority - Princess Margaret Hospital, Department of Pathology
醫院管理局-瑪嘉烈醫院病理部
Molecular Microbiology and Virology Laboratory: 16/F, Block S, Princess Margaret Hospital
瑪嘉烈醫院 S 座十六樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics (cont'd)	**Molecular Genetics (microbiology) (cont'd)** Respiratory Samples (Nasopharyngeal aspirate (NPA), nasopharyngeal swab (NPS), throat & nasal swabs)	Influenza A and B virus – detection by Reverse Transcription and Real time Polymerase Chain Reaction , qualitative (Target region: Influenza A - M gene Influenza B - HA gene)	Nucleic acid extraction by MagNAPure 96automated nucleic acid extraction system or NucliSENS easyMAG automated nucleic acid extraction system Nucleic acid amplification and detection as documented in WI-MIC-VIR-ABIC using LightCycler 480 II, Roche
	Respiratory Samples (Nasopharyngeal aspirate (NPA), nasopharyngeal swab (NPS), throat & nasal swabs) (cont'd)	Influenza A virus (H1& H3 subtype) – detection by Reverse Transcription and Real time Polymerase Chain Reaction, qualitative (Target region: HA gene)	Nucleic acid extraction by MagNAPure 96automated nucleic acid extraction system or NucliSENS easyMAG automated nucleic acid extraction system Nucleic acid amplification and detection as documented in WI-MIC-VIR-TYPE using LightCycler 480 II, Roche
		Influenza A virus (H5 subtype) – detection by Reverse Transcription and Real time Polymerase Chain Reaction, qualitative (Target region: HA gene)	Nucleic acid extraction by MagNAPure 96automated nucleic acid extraction system or NucliSENS easyMAG automated nucleic acid extraction system Nucleic acid amplification and detection as documented in WI-MIC-VIR-TYPEusingLightCycler 480 II, Roche
		Influenza A virus (H7N9 subtype) – detection by Reverse Transcription and Real time Polymerase Chain Reaction, qualitative (Target region: H7 - HA gene N9 - NA gene)	Nucleic acid extraction by MagNAPure 96automated nucleic acid extraction system or NucliSENS easyMAG automated nucleic acid extraction system Nucleic acid amplification and detection as documented in WI-MIC-VIR-TYPE using LightCycler 480 II, Roche
		Mycoplasma pneumoniae – detection by Real time Polymerase Chain Reaction, qualitative (Target region: P1 gene)	Nucleic acid extraction by NucliSENS easyMAG automated nucleic acid extraction system or MagNA Pure 96 automated nucleic acid extraction system Nucleic acid amplification and detection as documented in WI-MIC- VIR-MPPCR using LightCycler 2.0, Roche and LightCycler 480 II, Roche

Hospital Authority - Princess Margaret Hospital, Department of Pathology
醫院管理局-瑪嘉烈醫院病理部
Molecular Microbiology and Virology Laboratory: 16/F, Block S, Princess Margaret Hospital
瑪嘉烈醫院 S 座十六樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics (cont'd)	**Molecular Genetics (microbiology) (cont'd)** Respiratory Samples (Nasopharyngeal aspirate (NPA), nasopharyngeal swab (NPS), deep throat saliva (DTS), combined nasal and throat swab, sputum, endotracheal aspirate (ETA))	Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) – detection by Reverse Transcription and Real time Polymerase Chain Reaction, qualitative (Target region: E gene and N gene)	TibMolbiol LightMix Kits SARS-CoV-2 E+N UBC Assay Nucleic acid extraction by NucliSENS EMAG automated nucleic acid extraction system or MagNA Pure 96 automated nucleic acid extraction system Nucleic acid amplification and detection using Roche LightCycler 480 II machine Method as documented in WI-MIC-VIR-SARS CoV-2 PCR Assays in Kowloon West Cluster
		Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) – detection by Reverse Transcription and Real time Polymerase Chain Reaction, qualitative (Target region: E gene and N2 gene)	Cepheid Xpress SARS-CoV-2 Assay Nucleic acid amplification and detection of SARS-CoV-2 viral RNA in Cepheid GeneXpert System Method as documented in WI-MIC-VIR-XPERT XPRESS SARS-COV-2 PCR
		Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2), Influenza A virus, Influenza B virus and respiratory syncytial virus - detection by Reverse Transcription and Real time Polymerase Chain Reaction, qualitative (Target region: SARS-CoV-2: E gene and N2 gene Influenza A virus: M, PB2 and PA gene Influenza B virus: M and NS gene RSV: RSV A and RSV B nucleocapsid gene)	Cepheid Xpress SARS-CoV-2/Flu/RSV Assay Nucleic acid amplification and detection of SARS-CoV-2, Influenza A, Influenza B and Respiratory Syncytial viral RNA in Cepheid GeneXpert System. Method as documented in WI-MIC-VIR-COMBO XPRESS COMBO SARS-COV-2 FLU RSV PCR

Hospital Authority - Princess Margaret Hospital, Department of Pathology
醫院管理局-瑪嘉烈醫院病理部
Molecular Microbiology and Virology Laboratory: 16/F, Block S, Princess Margaret Hospital
瑪嘉烈醫院 S 座十六樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics (cont'd)	**Molecular Genetics (microbiology) (cont'd)** Respiratory Samples (Nasopharyngeal aspirate (NPA), nasopharyngeal swab (NPS), deep throat saliva (DTS), combined nasal and throat swab, sputum, endotracheal aspirate (ETA)) (cont'd)	Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) - detection by Reverse Transcription and Real time Polymerase Chain Reaction, qualitative (Target region: E gene)	TibMolbiol LightMix SarbecoV E-gene plus EAV control assay Nucleic acid extraction by NucliSENS easyMAG/EMAG automated nucleic acid extraction system or MagNA Pure 96 automated nucleic acid extraction system Nucleic acid amplification and detection using Roche LightCycler 480 II machine Method as documented in WI-MIC-VIR-SARS-CoV-2 detection by Roche TIBMIOL Realtime PCR kits
		Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) - detection by Reverse Transcription and Real time Polymerase Chain Reaction, qualitative (Target region: Orf1ab gene and E gene)	cobas SARS-CoV-2 Nucleic acid extraction, amplification and detection by cobas 6800 system Method as documented in WI-MIC-VIR-COBASCOV2 cobas SARS-CoV-2 PCR in cobas 6800 and 8800 systems and WI-MIC-VIR-COBAS Operation guide of cobas 6800and cobas 8800 systems

Hospital Authority - Princess Margaret Hospital, Department of Pathology
醫院管理局-瑪嘉烈醫院病理部
Molecular Microbiology and Virology Laboratory: 16/F, Block S, Princess Margaret Hospital
瑪嘉烈醫院 S 座十六樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics (cont'd)	**Molecular Genetics (microbiology) (cont'd)** Respiratory Samples (Nasopharyngeal aspirate (NPA), nasopharyngeal swab (NPS), deep throat saliva (DTS), combined nasal and throat swab, sputum, endotracheal aspirate (ETA)) (cont'd)	Respiratory viral nucleic acid detection by - Multiplex Polymerase Chain Reaction, qualitative (Target region: SARS-CoV-2: M gene and S gene; Bordetella pertussis: Petussis Toxin promotor, ptxP; Bordetella parapertussis: IS1001; Adenovirus, Human Metapneumovirus, Coronavirus 229E, Coronavirus HKU1, Coronavirus NL63, Coronavirus OC43, Influenza A virus H1, Influenza A virus H1-2009, Influenza A virus H3, Influenza B virus, Parainfluenza virus 1, Parainfluenza virus 2, Parainfluenza virus 3, Parainfluenza virus 4, Respiratory syncytial virus, Human Rhinovirus and/or Enterovirus, Chlamydia pneumoniae, and Mycoplasma pneumoniae: proprietary)	BioFire Respiratory Panel 2.1 (RP2.1) Nucleic acid extraction, amplification and detection by BioFire Respiratory Panel 2.1 (RP2.1) Method as documented in WI-MIC-VIR-FARP Respiratory Pathogens Detection by FilmArray Respiratory and CoV Panel
		- Reverse Transcription and Real Time Polymerase Chain Reaction, qualitative (Target region: SARS-CoV-2: M gene and S gene; Bordetella pertussis: Petussis Toxin promotor, ptxP; Bordetella parapertussis: IS1001; Adenovirus, Human Metapneumovirus, Coronavirus 229E, Coronavirus HKU1, Coronavirus NL63, Coronavirus OC43, Influenza A virus H1, Influenza A virus H1-2009, Influenza A virus H3, Influenza B virus, Parainfluenza virus 1, Parainfluenza virus 2, Parainfluenza virus 3, Parainfluenza virus 4, Respiratory syncytial virus, Human Rhinovirus and/or Enterovirus, Chlamydia pneumoniae, and Mycoplasma pneumoniae: proprietary)	BioFire Respiratory Panel 2.1 (RP2.1 plus) Nucleic acid extraction, amplification and detection by BioFire Respiratory Panel 2.1 (RP2.1 plus) Method as documented in WI-MIC-VIR-FARP Respiratory Pathogens Detection by FilmArray Respiratory and CoV Panel

Hospital Authority - Princess Margaret Hospital, Department of Pathology
醫院管理局-瑪嘉烈醫院病理部
Molecular Microbiology and Virology Laboratory: 16/F, Block S, Princess Margaret Hospital
瑪嘉烈醫院 S 座十六樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics (cont'd)	**Molecular Genetics (microbiology) (cont'd)**		
	Respiratory Samples (Nasopharyngeal aspirate (NPA), nasopharyngeal swab (NPS))	Influenza A virus, Influenza B virus and Respiratory syncytial virus – detection by Reverse Transcription and Real time Polymerase Chain Reaction, qualitative (Target region: Influenza A virus: M, PB2 and PA gene Influenza B virus: M and NS gene RSV: RSV A and RSV B nucleocapsid gene)	Cepheid Xpert Xpress Flu/RSV Assay Nucleic acid amplification and detection as documented in WI-MIC-VIR-XPCR using Cepheid GeneXpert
	Stool	*Clostridium difficile* – detection by Real time Polymerase Chain Reaction, qualitative (Target region: tcdC gene)	Nucleic acid extraction by NucliSENS easyMAG automated nucleic acid extraction system or Roche Diagnostics High Pure PCR Template Preparation Kit Nucleic acid amplification and detection as documented in WI-MIC-VIR-CDPCR using LightCycler 2.0, Roche
		Norovirus /Rotavirus / Astrovirus /Adenovirus / Sapovirus - detection by Real time Polymerase Chain Reaction, qualitative (Target region: Norovirus G1: ORF 1-2 junction Norovirus G2 : ORF 1-2 junction Rotavirus: segment 7, NSP3 gene Astrovirus: outer capsid protein gene Adenovirus: hexon gene Sapovirus: polymerase-capsid junction in ORF1)	Nucleic acid extraction by MagNA Pure 96 automated nucleic acid extraction system or NucliSENS easyMAG automated nucleic acid extraction system Nucleic acid amplification and detection as documented in WI-MIC-VIR-FTDGV using LightCycler 480 II, Roche
	Genital specimen, HVS, ECS, urine specimen	*Chlamydia trachomatis* (CT) – detection by Real-time Polymerase Chain Reaction, qualitative (Target region: CT1)	Nucleic acid extraction, amplification and detection by The Cepheid Xpert CT/NG assay Method as documented in WI-MIC-VIR-CTNG
		Neisseria gonorrhea (NT) – detection by Real-time Polymerase Chain Reaction, qualitative (Target region: NG2 and NG4)	Nucleic acid extraction, amplification and detection by The Cepheid Xpert CT/NG assay Method as documented in WI-MIC-VIR-CTNG

Hospital Authority - Princess Margaret Hospital, Department of Pathology
醫院管理局-瑪嘉烈醫院病理部
Molecular Microbiology and Virology Laboratory: 16/F, Block S, Princess Margaret Hospital
瑪嘉烈醫院 S 座十六樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics (cont'd)	**Molecular Genetics (microbiology) (cont'd)**		
	Axilla/groin swab, nasal swab	*Candida auris* – detection by Real-time Polymerase Chain Reaction, qualitative (Target region: ITS2)	Nucleic acid extraction by MagNA Pure 96 automated nucleic acid extraction system Nucleic acid amplification and detection by Roche LightCycler LC 480 II Method as documented in WI-MIC-VIR-CAUR Candida auris detection by real time PCR
	Vesicle fluid, ulcer swab, oral swab, lesion swab	HSV-1/2/VZV – detection by Real-time Polymerase Chain Reaction, qualitative (Target region: proprietary)	AltoStar alpha Herpesvirus PCR kit Nucleic acid extraction by NucliSENS EMAG or MagNA Pure 96 automated nucleic acid system or EZ1&2 Virus Kit v2.0 and EZ2 advanced XL system Nucleic acid amplification and detection by Roche LightCycler 480 II Method as documented in WI-MIC-VIR-HSVVZVPCR *Herpes Simplex* virus 1&2 and *Varicella Zoster* virus detection by real-time PCR
	Clinical isolates	Antimicrobial susceptibility test for yeast by Microbroth MIC determination	Thermo Fisher Sensititre™ YeastOne™ Method as document in WI-MIC-BAC-STSOP Antimicrobial susceptibility testing bench manual

Hospital Authority - Princess Margaret Hospital, Department of Pathology
醫院管理局-瑪嘉烈醫院病理部
Molecular Microbiology and Virology Laboratory: 16/F, Block S, Princess Margaret Hospital
瑪嘉烈醫院 S 座十六樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology	**Haematology – General** EDTA blood	Complete blood count including - Haemoglobin - Haematocrit - Leucocyte count (WBC count) - Leucocyte differential count - Mean corpuscular volume (MCV) - Mean corpuscular haemoglobin concentration (MCHC) - Mean corpuscular haemoglobin (MCH) - Nucleated red blood cell (NRBC) count - NRBC per 100WBC - Platelet count - Red cell count - Red cell distribution width (RDW) - Mean Platelet Volume (MPV)	Beckman Coulter Unicel DxH800

Hospital Authority - Princess Margaret Hospital, Department of Pathology
醫院管理局-瑪嘉烈醫院病理部
Haematology Laboratory and Blood Bank: 10/F, Block G, Princess Margaret Hospital
瑪嘉烈醫院 G 座十樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology	**Blood Bank - Antenatal screening**		
	EDTA blood	ABO and Rh(D) typing and antibody screening for anti-D for Rh(D) negative patients	Method as documented in WI-BBK-SOP-T0020, WI-BBK-SOP-T0021 and WI-BBK-SOP-T0022 + BioRad IH-1000
		Antibody screening for Rhesus antibodies	Method as documented in WI-HAE-HSP-PS001 + BioRad IH-1000
		Rhesus D antibody titration	Method as documented in WI-HAE-HSP-PS002
	Blood Bank - General		
	EDTA blood	ABO and Rh (D) typing by Red cell agglutination	Method as documented in WI-BBK-SOP-T0020 and WI-BBK-SOP-T0021 + BioRad IH-1000
		Antibody screening by - Red cell agglutination	Method as documented in WI-BBK-SOP-T0022 using Bio-Rad gel card + BioRad IH-1000
		- Saline-Indirect antiglobulin test	Method as documented in WI-BBK-SOP-T0022
		Red cell phenotyping by - Direct agglutination - Indirect antiglobulin test - Red cell agglutination	Method as documented in WI-BBK-SOP-T0025
		Crossmatch by - Computer crossmatch	Method as documented in WI-BBK-SOP-T0023
		- Immediate spin	Method as documented in WI-BBK-SOP-T0023
		- Red cell agglutination	Method as documented in WI-BBK-SOP-T0023 using Bio-Rad gel card + BioRad IH-1000
		- Saline-Indirect antiglobulin test	Method as documented in WI-BBK-SOP-T0023

Hospital Authority - Princess Margaret Hospital, Department of Pathology
醫院管理局-瑪嘉烈醫院病理部
Haematology Laboratory and Blood Bank: 10/F, Block G, Princess Margaret Hospital
瑪嘉烈醫院 G 座十樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology (cont'd)	**Blood Bank - Immunohaematology**		
	EDTA blood	Direct antiglobulin test (DAT) by	
		- Conventional method	Method as documented in WI-BBK-SOP-T0024
		- Red cell agglutination	Method as documented in WI-BBK-SOP-T0024 using Bio-Rad gel card + BioRad IH-1000
	Blood Bank - Special		
	EDTA blood	Antibody elution and identification by	
		ELU Kit Plus	ImmucorGamma ELU Kit Plus Method as documented in WI-BBK-SOP-T0027
	EDTA blood	Antibody identification by	
		Red cell agglutination	Method as documented in WI-BBK-SOP-T0026 using Bio-Rad gel card + BioRad IH-1000
		Investigation of ABO Blood Group Anomaly	Method as documented in WI-BBK-SOP-T0028
		Transfusion reaction, including - ABO and Rh(D) typing - Antibody screening - Red cell antigen phenotyping - Antibody identification - Direct antiglobulin test - Crossmatching	Method as documented in WI-BBK-SOP-T0011
	Coagulation		
	Citrate blood	Coagulation studies, automated including - Prothrombin Time (PT) - Activated partial thromboplastin time (APTT) - Fibrinogen	Automated coagulation system: IL ACL Top 700
		Activated partial thromboplastin time (APTT) by manual method	Method as documented in WI-HAE-COA-P0003
		Prothrombin Time (PT) by manual method	Method as documented in WI-HAE-COA-P0002

Hospital Authority - Princess Margaret Hospital, Department of Pathology
醫院管理局-瑪嘉烈醫院病理部
Haematology Laboratory and Blood Bank: 10/F, Block G, Princess Margaret Hospital
瑪嘉烈醫院 G 座十樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology (cont'd)	**Coagulation (cont'd)** Citrate blood (cont'd)	Factor assay(II, V, VII, VIII, IX, X, XI, XII) by optical detection	ILACL-Top700 Assay: FII-RP, FV-RP, FVII-RP, FVIII-RP, FIX-SS, FX-RP, FXI-SS, FXII-SS
		Factor VIII inhibitor assay by optical detection	Method as documented in WI-HAE-COA-P0011 using IL ACL-TOP 700
		Protein C by chromogenic method	IL ACL-Top 700 Assay: PC
		Free Protein S by latex ligand immunoassay	IL ACL-Top 700 Assay: Free PS
		Antithrombin by chromogenic method	IL ACL-Top 700 Assay: AT
		Detection of Lupus Anticoagulant by Dilute Russell's Viper Venom Time and Silica clotting time	Method as documented in WI-HAE-COA-P0006, WI-HAE-COA-P0015 and WI-HAE-COA-P0017 using IL ACL-Top 700
		D-Dimer by Enzyme-linked Fluorescent Assay	Biomerieux Vidas 3 System D-Dimer Exclusion II Kit
		von Willebrand Factor Antigen (VWF) by Latex enhanced immunoassay	IL ACL-Top 700 Assay: VWF:Ag
		von Willebrand Factor Ristocetin Cofactor Activity (VRC) by Latex enhanced immunoassay	IL ACL-Top 700 Assay: VWF:RCo

Hospital Authority - Princess Margaret Hospital, Department of Pathology
醫院管理局-瑪嘉烈醫院病理部
Haematology Laboratory and Blood Bank: 10/F, Block G, Princess Margaret Hospital
瑪嘉烈醫院 G 座十樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology (cont'd)	**Haematology - General** EDTA blood	Complete blood count including - Haemoglobin - Haematocrit - Leucocyte count (WBC count) - Leucocyte differential count - Mean corpuscular volume (MCV) - Mean corpuscular haemoglobin concentration (MCHC) - Mean corpuscular haemoglobin (MCH) - Nucleated red blood cell (NRBC) count - NRBC per 100WBC - Platelet count - Red cell count - Red cell distribution width (RDW) - Mean Platelet Volume (MPV)	Beckman Coulter Unicel DxH800
		Malaria parasite examination by Thick and thin films	Smear preparation and Giemsa staining (pH7.2) Method as documented in WI-HAE-HGN-P0011
		Rapid Diagnostic Test Kit (RDT)	Method as documented in PMH-PAT-WI-HAE-104 (Malaria Parasites Examination for Cases of Suspected Viral Haemorrhagic Fevers) Method as documented in PMH-PAT-WI-HAE-106 using RDT Kit-RDT Kit-NOW Malaria Binax
		Peripheral blood smear examination by - Wright – Giemsa stain - May-Grunwald Giemsa Stain - Automated staining method	 Method as documented in WI-HAE-HGN-P0006 Method as documented in WI-HAE-HGN-P0005 Method as documented in WI-HAE-HGN-E0004 using Hematek Slide Stainer
		Reticulocyte Count by Immature reticulocyte fraction	 Beckman Coulter Unicel DxH800
		Reticulocyte Count (Manual) by New Methylene Blue Stain	 Method as documented in WI-HAE-HGN-P0010

Hospital Authority - Princess Margaret Hospital, Department of Pathology
醫院管理局-瑪嘉烈醫院病理部
Haematology Laboratory and Blood Bank: 10/F, Block G, Princess Margaret Hospital
瑪嘉烈醫院 G 座十樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology (cont'd)	**Haematology - Special**		
	EDTA blood	Haemoglobin A2 and F quantitation by High Performance Liquid Chromatography (HPLC)	BioRad Variant II HPLC analyzer
		Haemoglobin Electrophoresis	Sebia Hydragel Haemoglobin (E), K20
		Haemoglobin H inclusion bodies by New Methylene Blue Stain	Method as documented in WI-HAE-HSP-PH005
		Glucose-6-phosphate dehydrogenase (G6PD) screening by Fluorescence test	Method as documented in WI-HAE-HSP-PM003
	Serum	Monospot Test	Meridian Bioscience Inc. Monospot Latex Kit
	EDTA / citrate bone marrow aspirate	Bone Marrow Examination : Marrow smear by May-Grunwald-Giemsa and Perl's Prussian Blue stain	Specimen preparation and staining as documented in WI-HAE-HSP-PM001, WI-HAE-HGN-P0005 and WI-HAE-HSP-PC006
		Peripheral blood smear by May-Grunwald-Giemsa	Method as documented in WI-HAE-HGN-P0005
		Cytochemical Staining: - Sudan Black - Periodic Acid Schiff - Leucocyte Acid Phosphatase - Alpha Napthyl Acetate Esterase	Method as documented in WI-HAE HSP-PC001 to PC004

Hospital Authority - Princess Margaret Hospital, Department of Pathology
醫院管理局-瑪嘉烈醫院病理部
Haematology Laboratory and Blood Bank: 10/F, Block G, Princess Margaret Hospital
瑪嘉烈醫院 G 座十樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Immunology	**Autoantibodies** Serum	Antinuclear Antibody by Indirect immunofluorescent method	AESKUSLIDES ANA-HEp-2 by HELIOS System
		Anti-ds DNA Antibody by Immunoassay (Enzyme-based label)	IBL dsDNA-Ab ELISA by Euroimmun Analyzer I
		Anti-Neutrophil Cytoplasmic Antibody by Indirect immunofluorescent method	NOVA Lite ™ ANCA Reagent Kit
		Anti-Myeloperoxidase by Immunoassay (Enzyme-based label)	Anti-Myeloperoxidase ELISA (IgG) by Euroimmun Analyzer I
		Thyroid Autoantibodies by Immunoassay (Enzyme-based label)	Euroimmun Anti-Thyroglobulin ELISA(IgG) and Anti-TPO ELISA (IgG) test kits by Euroimmun Analyzer I
		Anti-Mitochondrial / Anti-Smooth Muscle Antibodies by Indirect Immunofluorescence method	Euroimmun Indirect Immunofluorescence Test Kit Mosaic substrate: Kidney (Rat) / Stomach (Rat)
		Anti-Cardiolipin Antibodies (IgG) by Immunoassay (Enzyme-based label)	Euroimmun Anti-Cardiolipin ELISA (IgG) by Euroimmun Analyzer I
		Rheumatoid Factor by Latex agglutination	Rheumajet RF, Biokit
		Anti-Parietal Cell Antibodies by Indirect Immunofluorescence method	Euroimmun Indirect Immunofluorescence Test Kit

Hospital Authority - Princess Margaret Hospital, Department of Pathology
醫院管理局-瑪嘉烈醫院病理部
Toxicology Reference Laboratory: 7/F, Block P, Princess Margaret Hospital
瑪嘉烈醫院 P 座七樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology	**Toxicology**		
	Urine, non-biological samples	General unknown screening by Ultra performance liquid chromatography with mass spectrometry (UPLC-MS)	Method as documented in WI-TRL-TSM-ORBI using LC-Orbitrap WI-TRL-TSM-TOXU using SCIEX X500R QTOF
	Serum, non-biological samples	Quantitative toxic alcohol analysis by Gas chromatography (GC) with flame ionisation detection (GC-FID)	Method as documented in WI-TRL-TSM-ALCS using Agilent 7890A GC-FID
	Urine, serum, non-biological samples	Target screen for warfarin and superwarfarins by Ultra performance liquid chromatography with mass spectrometry (UPLC-MS)	Method as documented in WI-TRL-TSM-WAR using AB Sciex 5500 QTrap coupled with Waters Acquity UPLC
		Target analysis of toxic plant alkaloids by Ultra performance liquid chromatography with mass spectrometry (UPLC-MS)	Method as documented in WI-TRL-TSM-TPA using AB Sciex 5500 QTrap coupled with Waters Acquity UPLC
	Non-biological samples	Target screen for animal thyroid tissue by Ultra performance liquid chromatography with mass spectrometry (UPLC-MS)	Method as documented in WI-TRL-TSM-THY using AB Sciex 5500 QTrap coupled with Waters Acquity UPLC
		Target screen for corticosteroids by Ultra performance liquid chromatography with mass spectrometry (UPLC-MS)	Method as documented in WI-TRL-TSM-CORT using AB Sciex 5500+ QTrap coupled with Waters Acquity UPLC
	Urine	Target analysis of diuretics and laxatives by High performance liquid chromatography with mass spectrometry (HPLC-MS)	Method as documented in WI-TRL-TSM-DIUR using Agilent 6430 MS coupled with Agilent 1290 Infinity LC
		Target screen for oral antidiabetic agents by Ultra performance liquid chromatography with mass spectrometry (UPLC-MS)	Method as documented in WI-TRL-TSM-OADU using AB Sciex 5500+ QTrap coupled with Waters Acquity UPLC
		Urine Drug of Abuse Testing by Ultra performance liquid chromatography with mass spectrometry (UPLC-MS)	Method as documented in WI-TRL-TSM-UDOA using SCIEX X500R QTOF

Hospital Authority - Princess Margaret Hospital, Department of Pathology
醫院管理局-瑪嘉烈醫院病理部
Toxicology Reference Laboratory: 7/F, Block P, Princess Margaret Hospital
瑪嘉烈醫院 P 座七樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**Toxicology (cont'd)**		
	Serum	Target analysis of glycols by Gas Chromatography with mass spectrometry (GC-MS)	Method as documented in WI-TRL-TSM-GLYCOL using Agilent7890B GC coupled with Agilent 5977A MSD
		Therapeutic drug monitoring of psychotropic drugs by Ultra performance liquid chromatography with mass spectrometry (UPLC-MS)	Method as documented in WI-TRL-TSM-TDMP using AB Sciex 5500+ QTrap coupled with Waters Acquity UPLC
	Heavy metals and Trace Elements		
	Serum, urine	Copper by Inductively Coupled Plasma-Mass Spectrometry	Methods as documented in WI-TRL-TSM-SMEMS and WI-TRL-TSM-UMEMS using Inductively Coupled plasma mass spectrometry Agilent 7900
	Whole blood	Lead by Inductively Coupled Plasma-Mass Spectrometry	Methods as documented in WI-TRL-TSM-BMEMS using Inductively Coupled plasma mass spectrometry Agilent 7900
	Serum	Zinc by Inductively Coupled Plasma-Mass Spectrometry	Method as documented in WI-TRL-TSM-SMEMS using Inductively Coupled plasma mass spectrometry Agilent 7900

Hospital Authority - Princess Margaret Hospital, Department of Pathology
醫院管理局-瑪嘉烈醫院病理部
Genetics and Genomics Pathology Laboratory: 6/F, Block G, Princess Margaret Hospital
瑪嘉烈醫院 G 座六樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics	**Molecular Genetics (anatomical pathology)** Histological and cytological specimen	Detection of mutations in exons 18, 19, 20 and 21 of EGFR (Epidermal Growth Factor Receptor) oncogene by Real-time polymerase chain reaction (Target region: exons 18, 19, 20, 21 of EGFR gene)	Nucleic acid extraction as documented in WI-APL-MGT-FFPEE using Qiagen DNA FFPE Tissue Kit Nucleic acid amplification and post amplification processing as documented in WI-APL-MGT-QIARW, WI-APL-MGT-EGFRA,WI-APL-MGT-EGFRS and WI-APL-MGT-EGFRQ using Qiagen therascreen EGFR RGQ PCR Kit and Qiagen Rotor-Gene Q machine
		Detection of mutations in exons 2, 3 and 4 of the KRAS (Kirsten Rat SarcomaViral Oncogene Homolog) gene by Polymerase chain reaction and Sanger sequencing (Target region: exons 2,3, 4 of KRAS gene)	Nucleic acid extraction as documented in WI-APL-MGT-FFPEE using Qiagen DNA FFPE Tissue Kit Nucleic acid amplification as documented in WI-APL-MGT-KNRAS using ESCO Swift MaxPro Thermal Cycler/ Applied Biosystems Veriti Thermal Cycler Post amplification processing and Sanger sequencing as documented in WI-APL-MGT-SEQUE using Applied Biosystems 3130xl Genetic Analyzer
		Detection of mutations in exons 2, 3 and 4 of the NRAS (Neuroblastoma RAS Viral Oncogene Homolog) gene by Polymerase chain reaction and Sanger sequencing (Target region: exons 2,3, 4 of NRAS gene)	Nucleic acid extraction as documented in WI-APL-MGT-FFPEE using Qiagen DNA FFPE Tissue Kit Nucleic acid amplification as documented in WI-APL-MGT-KNRAS using ESCO Swift MaxPro Thermal Cycler/ Applied Biosystems Veriti Thermal Cycler Post amplification processing and Sanger sequencing as documented in WI-APL-MGT-SEQUE using Applied Biosystems 3130xl Genetic Analyzer

Hospital Authority - Princess Margaret Hospital, Department of Pathology
醫院管理局-瑪嘉烈醫院病理部
Genetics and Genomics Pathology Laboratory: 6/F, Block G, Princess Margaret Hospital
瑪嘉烈醫院 G 座六樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics (cont'd)	**Molecular Genetics (anatomical pathology) (cont'd)** Tissue specimens	Epstein-Barr Virus Early RNA (EBV EBER) by In-situ Hybridization (ISH)	Method as documented in WI-APL-SOP-MTISH
		Human Papilloma Virus (HPV) screening by Polymerase Chain Reaction (PCR) (Target region: L1 gene)	Nucleic acid extraction as documented in WI-APL-SOP-MTPCR Nucleic acid amplification and detection as documented in WI-APL-SOP-MTPCR
		Immunoglobulin Heavy Chain (IgH) gene rearrangement by Invivoscribe IdentiClone IgH Gene Clonality Assay (Target regions: Fr1, Fr2 and Fr3 genes)	Polymerase chain reaction and Fluorescence detection. Nucleic acid extraction as documented in WI-APL-MGT-FFPEE using Qiagen DNA FFPE Tissue Kit Nucleic acid amplification and post amplification processing using ESCO Swift MaxPro Thermal Cycler/Applied Biosystems Veriti Thermal Cycler and Applied Biosystems 3130xl Genetic Analyzer
		Kappa and Lambda mRNA by In-situ Hybridization (ISH) examination (Target region: Light chain mRNA)	Method as documented in WI-APL-SOP-MTISH
		Mycobacterium tuberculosis complex by Polymerase Chain Reaction (PCR) (Target regions: IS6110 and mtp40)	Nucleic acid extraction as documented in WI-APL-SOP-MTPCR Nucleic acid amplification and detection as documented in WI-APL-SOP-MTPCR

Hospital Authority - Princess Margaret Hospital, Department of Pathology
醫院管理局-瑪嘉烈醫院病理部
Genetics and Genomics Pathology Laboratory: 6/F, Block G, Princess Margaret Hospital
瑪嘉烈醫院 G 座六樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics (cont'd)	**Molecular Genetics (anatomical pathology) (cont'd)**		
	Tissue specimens (cont'd)	T-cell receptor beta and gamma gene rearrangement by Invivoscribe IdentiClone TCRB + TCRG T-Cell Clonality Assay (Target regions: Beta and Gamma genes)	Polymerase chain reaction and Fluorescence detection. Nucleic acid extraction as documented in WI-APL-MGT-FFPEE using Qiagen DNA FFPE Tissue Kit Nucleic acid amplification and post amplification processing using ESCO Swift MaxPro Thermal Cycler/Applied Biosystems Veriti Thermal Cycler and Applied Biosystems 3130xl Genetic Analyzer
	Formalin fixed paraffin embedded brain tumour	Detection of mutations in exon 4 of IDH1 (Isocitrate Dehydrogenase 1) and IDH2 (Isocitrate Dehydrogenase 2) gene by Polymerase Chain Reaction (PCR) and Sanger sequencing (Target region: exon 4 of IDH1 and IDH2 gene)	Polymerase chain reaction and Sanger sequencing. Nucleic acid extraction as documented in WI-APL-MGT-FFPEE using Qiagen DNA FFPE Tissue Kit Nucleic acid amplification and post amplification processing as documented in WI-APL-MGT-IDH12 and WI-APL-MGT-SEQUE using ESCO Swift MaxPro Thermal Cycler/Applied Biosystems Veriti Thermal Cycler and Applied Biosystems 3130xl Genetic Analyzer
		Analysis of MGMT (O-6-Methylguanine-DNA Methyltransferase) gene methylation status by bisulfite treatment and methylation-specific PCR (MSP) (Target region: promotor region of MGMT gene)	Bisulfite treatment and methylation-specific PCR. Nucleic acid extraction as documented in WI-APL-MGT-FFPEE using Qiagen DNA FFPE Tissue Kit Bisulfite treatment using EZ DNA Methylation-Direct Kit of Zymo Research and methylation-specific PCR using CpG WIZ MGMT Amplification Kit of Chemicon, Sigma-Aldrich as documented in WI-APL-MGT-BSFTZ

Hospital Authority - Princess Margaret Hospital, Department of Pathology
醫院管理局-瑪嘉烈醫院病理部
Genetics and Genomics Pathology Laboratory: 6/F, Block G, Princess Margaret Hospital
瑪嘉烈醫院 G 座六樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics (cont'd)	**Molecular Genetics (chemical pathology)**		
	EDTA blood	ATP7B mutations in Wilson disease by Polymerase Chain Reaction (PCR) and DNA sequencing (Target region: all coding exons)	Nucleic acid extraction as documented in WI-CCP-TSM-MDNA Nucleic acid amplification and post amplification processing as documented in WI-CCP-TSM-MATP7
	Plasma, pleural fluid	Circulating tumour DNA for EGFR mutations by Droplet Digital Polymerase Chain Reaction (Target region: EGFR L858R, Exon 19 Deletion and T790M)	Circulating tumour DNA extraction as documented in WI-CCP-TSM-MCFDNA (Test Manual of cfDNA Extraction from Plasma or Pleural Fluid Samples) Nucleic acid amplification as documented in WI-CCP-TSM-MPEGFR (Test Manual of Plasma Circulating Tumour DNA targeted mutations by QX One droplet digital PCR
	EDTA blood	Detection of *KCNH2* variants by Polymerase Chain Reaction (PCR) and Sanger sequencing (Target region: all coding exons and the 10-bp flanking regions of *KCNH2*)	Nucleic acid extraction using QIAGEN QIAamp DNA Blood MiniKit by manual method or QIAcube Amplification using Applied Biosystems Veriti Thermal Cycler Sanger sequencing using Applied Biosystems 3130xl and 3500xl Genetic Analyzer
		Detection of *KCNQ1* variants by Polymerase Chain Reaction (PCR) and Sanger sequencing (Target region: all coding exons and the 10-bp flanking regions of *KCNQ1*)	Nucleic acid extraction using QIAGEN QIAamp DNA Blood MiniKit by manual method or QIAcube Amplification using Applied Biosystems Veriti Thermal Cycler Sanger sequencing using Applied Biosystems 3130xl and 3500xl Genetic Analyzer
		Detection of *MYBPC3* variants by Polymerase Chain Reaction (PCR) and Sanger sequencing (Target region: all coding exons and the 10-bp flanking regions of *MYBPC3*)	Nucleic acid extraction using QIAGEN QIAamp DNA Blood MiniKit by manual method or QIAcube Amplification using Applied Biosystems Veriti Thermal Cycler Sanger sequencing using Applied Biosystems 3130xl and 3500xl Genetic Analyzer

Hospital Authority - Princess Margaret Hospital, Department of Pathology
醫院管理局-瑪嘉烈醫院病理部
Genetics and Genomics Pathology Laboratory: 6/F, Block G, Princess Margaret Hospital
瑪嘉烈醫院 G 座六樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics (cont'd)	**Molecular Genetics (chemical pathology) (cont'd)** EDTA blood (cont'd)	Detection of *MYH7* variants by Polymerase Chain Reaction (PCR) and Sanger sequencing (Target region: all coding exons and the 10-bp flanking regions of *MYH7*)	Nucleic acid extraction using QIAGEN QIAamp DNA Blood MiniKit by manual method or QIAcube Amplification using Applied Biosystems Veriti Thermal Cycler Sanger sequencing using Applied Biosystems 3130xl and 3500xl Genetic Analyzer
		OTC mutations in Ornithine transcarbamylase deficiency by Polymerase Chain Reaction (PCR) and DNA sequencing (Target region: all coding exons)	Nucleic acid extraction as documented in WI-CCP-TSM-MDNA Nucleic acid amplification and post amplification processing as documented in WI-CCP-TSM-MOTC
		Detection of *PKP2* variants by Polymerase chain reaction (PCR) and Sanger sequencing (Target region: all coding exons and the 10-bp flanking regions of *PKP2*)	Nucleic acid extraction using QIAGEN QIAamp DNA Blood MiniKit by manual method or QIAcube Amplification using Applied Biosystems Veriti Thermal Cycler Sanger sequencing using Applied Biosystems 3130xl and 3500xl Genetic Analyzer
		Repeat expansions of HD in Huntington disease by Polymerase Chain Reaction (PCR) and/or DNA sequencing (Target region: trinucleotide repeat numbers)	Nucleic acid extraction as documented in WI-CCP-TSM-MDNA Nucleic acid amplification and post amplification processing as documented in WI-CCP-TSM-MHTT and WI-CCP-TSM-MGDNA

Hospital Authority - Princess Margaret Hospital, Department of Pathology
醫院管理局-瑪嘉烈醫院病理部
Genetics and Genomics Pathology Laboratory: 6/F, Block G, Princess Margaret Hospital
瑪嘉烈醫院 G 座六樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics (cont'd)	**Molecular Genetics (chemical pathology) (cont'd)** EDTA blood (cont'd)	Repeat expansions of spinocerebellar ataxia types 1, 2, 3, 6, 7, 12, and 17 by Polymerase Chain Reaction (PCR) and/or DNA sequencing (Target region: trinucleotide repeat numbers)	Nucleic acid extraction as documented in WI-CCP-TSM-MDNA Nucleic acid amplification and post amplification processing as documented in WI-CCP-TSM- MSCA and WI-CCP-TSM-MGDNA
		Detection of *SCN5A* variants by Polymerase chain reaction (PCR) and Sanger sequencing (Target region: all coding exons and the 10-bp flanking regions of *SCN5A*)	Nucleic acid extraction using QIAGEN QIAamp DNA Blood MiniKit by manual method or QIAcube Amplification using Applied Biosystems Veriti Thermal Cycler Sanger sequencing using Applied Biosystems 3130xl and 3500xl Genetic Analyzer
		Detection of *TPMT* and *NUDT15* variants by Polymerase Chain Reaction (PCR) and Sanger sequencing (Target variants: *TPMT**3C and *NUDT15**2, *3, *4, *5, *6 and *9)	Nucleic acid extraction as documented in WI-CCP-TSM-MDNA (Test Manual of DNA Extraction from Blood Samples) Nucleic acids amplification and post amplification processing as documented in WI-CCP-TSM-MTPMT (Test Manual of Genetic Analysis of TPMT and NUDT15)
		SPG3A mutations in Spastic Paraplegia 3, autosomal dominant by Polymerase Chain Reaction (PCR) and DNA sequencing (Target region: all coding exons)	Nucleic acid extraction as documented in WI-CCP-TSM-MDNA Nucleic acids amplification and post amplification processing as documented in WI-CCP-TSM-MSPG3

Hospital Authority - Princess Margaret Hospital, Department of Pathology
醫院管理局-瑪嘉烈醫院病理部
Genetics and Genomics Pathology Laboratory: 6/F, Block G, Princess Margaret Hospital
瑪嘉烈醫院 G 座六樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics (cont'd)	**Molecular Genetics (chemical pathology) (cont'd)**		
	EDTA blood (cont'd)	TH mutations in Tyrosine hydroxylase deficiency by	
		Polymerase Chain Reaction (PCR) and DNA sequencing (Target region: all coding exons)	Nucleic acid extraction as documented in WI-CCP-TSM-MDNA Nucleic acids amplification and post amplification processing as documented in WI-CCP-TSM-MTH
		TTR mutations in Hereditary Transthyretin-related Amyloidosis by	
		Polymerase Chain Reaction (PCR) and DNA sequencing (Target region: all coding exons)	Nucleic acid extraction as documented in WI-CCP-TSM-MDNA Nucleic acid amplification and post amplification processing as documented in WI-CCP-TSM-MTTR
		VHL mutations in von Hippel-Lindau syndrome by	
		Polymerase Chain Reaction (PCR) and DNA sequencing (Target region: all coding exons)	Nucleic acid extraction as documented in WI-CCP-TSM-MDNA Nucleic acid amplification and post amplification processing as documented in WI-CCP-TSM-MVHL

Hospital Authority - Princess Margaret Hospital, Department of Pathology
醫院管理局-瑪嘉烈醫院病理部
Genetics and Genomics Pathology Laboratory: 6/F, Block G, Princess Margaret Hospital
瑪嘉烈醫院 G 座六樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics (cont'd)	**Molecular Genetics (haematology)** EDTA blood, EDTA marrow aspirate	Immunoglobulin heavy chain (IgH) gene rearrangement by Polymerase Chain Reaction (PCR)	Nucleic acid extraction QIAamp DNA Blood Kit as documented in WI-HAE-HMB-P0002 and WI-HAE-HMB-P0026 Nucleic acid amplification and detection by Invivoscribe: IdentiClone IGH Gene Clonality Assay Kit as documented inWI-HAE-HMB-P0024
		JAK2 V617F kinase mutation by Allele-specific Polymerase Chain Reaction (AS-PCR)	Nucleic acid extraction by QIAamp DNA Blood Kit as documented in WI-HAE-HMB-P0002 and WI-HAE-HMB-P0026 Nucleic acid amplification and detection as documented in WI-HAE-HMB-P0018
		t(9;22) (q34;q11) fusion gene transcript -BCR-ABL p210 -BCR-ABL p190 by Reverse transcription-Polymerase Chain Reaction (RT-PCR)	Nucleic acid extraction as documented in WI-HAE-HMB-P0003 Nucleic acid amplification and detection as documented WI-HAE-HMB-P0008
		t(15;17)(q22;q12) fusion gene transcript by Reverse transcription-Polymerase Chain Reaction (RT-PCR)	Nucleic acid extraction as documented in WI-HAE-HMB-P0003 Nucleic acid amplification and detection as documented in WI-HAE-HMB-P0017
		T – cell receptor (TCR) gene rearrangement by Polymerase Chain Reaction (PCR)	Nucleic acid extraction by QIAamp DNA Blood Kit as documented in WI-HAE-HMB-P0002 and WI-HAE-HMB-P0026 Nucleic acid amplification and detection by Invivoscribe: IdentiClone TCR Gene Clonality Assay Kit as documented in WI-HAE-HMB-P0025

Hospital Authority - Princess Margaret Hospital, Department of Pathology
醫院管理局-瑪嘉烈醫院病理部
Genetics and Genomics Pathology Laboratory: 6/F, Block G, Princess Margaret Hospital
瑪嘉烈醫院 G 座六樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics (cont'd)	**Molecular Genetics (haematology) (cont'd)**		
	EDTA blood, EDTA marrow aspirate (cont'd)	Alpha Globin Genotyping for SEA, 3.7, 4.2 deletion by Multiplex Polymerase Chain Reaction	Nucleic acid extraction QIAamp DNA Blood Kit as documented inWI-HAE-HMB-P0002 and WI-HAE-HMB-P0026 Nucleic acid amplification and detection as documented in WI-HAE-HMB-P0029
	EDTA blood	Factor VIII Genotyping of intron 1 and intron 22 inversion by Polymerase Chain Reaction (PCR) and Sanger sequencing	Nucleic acid extraction QIAamp DNA Blood Kit as documented in WI-HAE-HMB-P0002 Nucleic acid amplification and detection as documented in WI--HAE-HMB-P0019 and WI-HAE-HMB-P0020
		Factor IX Genotyping by Sanger sequencing	Nucleic acid extraction QIAamp DNA Blood Kit as documented in WI-HAE-HMB-P0002 Nucleic acid amplification and detection as documented in WI--HAE-HMB-P0021

Hospital Authority - Princess Margaret Hospital, Department of Pathology
醫院管理局-瑪嘉烈醫院病理部
Testing Location: Core Laboratory, Department of Pathology, Yan Chai Hospital
Room 426, 4/F, Block B, 7-11, Yan Chai Street, Tsuen Wan, New Territories, Hong Kong.
香港新界荃灣仁濟街 7-11 號仁濟醫院 B 座 4 樓 426 室

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology	**Therapeutic Drug Monitoring** EDTA blood	Cyclosporin A by Liquid chromatography-tandem mass spectrometry (LC-MS/MS)	Methods as documented in WI-CCP-TSM-YCYC using AB Sciex 3200 LCMS/MS
		Tacrolimus by Liquid chromatography-tandem mass spectrometry (LC-MS/MS)	Methods as documented in WI-CCP-TSM-YTAC using AB Sciex 3200 LCMS/MS
		Everolimus by Liquid chromatography-tandem mass spectrometry (LC-MS/MS)	Methods as documented in WI-CCP-TSM-YEVSI using AB Sciex 3200 LCMS/MS
		Sirolimus by Liquid chromatography-tandem mass spectrometry (LC-MS/MS)	Methods as documented in WI-CCP-TSM-YEVSI using AB Sciex 3200 LCMS/MS

Hospital Authority - Princess Margaret Hospital, Department of Pathology
醫院管理局-瑪嘉烈醫院病理部
Clinical Laboratory: 7/F, North Lantau Hospital, 8 Chung Yan Road, Tung Chung, Lantau, New Territories, Hong Kong
香港新界大嶼山東涌松仁路八號北大嶼山醫院七樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology	**Blood gases and Co-oximetry**		
	Heparinised blood	Blood Gas include:	
		pCO_2 by	
		Potentioimetry	Siemens RapidLab 1265 Blood Gas Analyzer
		pH by	
		Potentioimetry	Siemens RapidLab 1265 Blood Gas Analyzer
		pO_2 by	
		Amperometry	Siemens RapidLab 1265 Blood Gas Analyzer
		Base Excess by	
		Auto calculation	Siemens RapidLab 1265 Blood Gas Analyzer
		Bicarbonate by	
		Auto calculation	Siemens RapidLab 1265 Blood Gas Analyzer
		O_2Saturation by	
		Auto calculation	Siemens RapidLab 1265 Blood Gas Analyzer
		Carboxyhaemoglobin by	
		Co-oximetry	Siemens RapidLab 1265 Blood Gas Analyzer
		Ionized Calcium by	
		Potentiometry	Siemens RapidLab 1265 Blood Gas Analyzer
		Methaemoglobin by	
		Co-oximetry	Siemens RapidLab 1265 Blood Gas Analyzer
		Oxyhaemoglobin by	
		Co-oximetry	Siemens RapidLab 1265 Blood Gas Analyzer
	General Chemistry		
	Fluid, pleural, peritoneal, pericardial and cerebrospinal fluids	Adenosine deaminase by	
		Spectrophotometry	Beckman Coulter Olympus AU680 Clinical Chemistry System, Adenosine Deaminase Assay
	Plasma	Alanine Aminotransferase (ALT) by	
		Spectrophotometry	Beckman Coulter Olympus AU680 Clinical Chemistry System, ALT Assay

Hospital Authority - Princess Margaret Hospital, Department of Pathology
醫院管理局-瑪嘉烈醫院病理部
Clinical Laboratory: 7/F, North Lantau Hospital, 8 Chung Yan Road, Tung Chung, Lantau, New Territories, Hong Kong
香港新界大嶼山東涌松仁路八號北大嶼山醫院七樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**General Chemistry (cont'd)** Plasma (cont'd)	Albumin by Spectrophotometry	Beckman Coulter Olympus AU680 Clinical Chemistry System, Albumin Assay
		Alkaline Phosphatase (ALP) by Spectrophotometry	Beckman Coulter Olympus AU680 Clinical Chemistry System, Alkaline Phosphatase Assay
		Ammonia by Spectrophotometry	Beckman Coulter Olympus AU680 Clinical Chemistry System, Infinity Ammonia Assay
		Amylase by Spectrophotometry	Beckman Coulter Olympus AU680 Clinical Chemistry System, Alpha Amylase Assay
		Bilirubin, Total by Spectrophotometry	Beckman Coulter Olympus AU680 Clinical Chemistry System, Total Bilirubin Assay
		Calcium by Spectrophotometry	Beckman Coulter Olympus AU680 Clinical Chemistry System, Calcium Arsenazo Assay
		Chloride by Potentiometry	Beckman Coulter Olympus AU680 Clinical Chemistry System, Chloride Assay
		Cholesterol, Total by Spectrophotometry	Beckman Coulter Olympus AU680 Clinical Chemistry System, Cholesterol assay
		Cholesterol High Density Lipoprotein, (HDL-C) by Spectrophotometry	Beckman Coulter Olympus AU680 Clinical Chemistry System, HDL-Cholesterol assay

Hospital Authority - Princess Margaret Hospital, Department of Pathology
醫院管理局-瑪嘉烈醫院病理部
Clinical Laboratory: 7/F, North Lantau Hospital, 8 Chung Yan Road, Tung Chung, Lantau, New Territories, Hong Kong
香港新界大嶼山東涌松仁路八號北大嶼山醫院七樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**General Chemistry (cont'd)**		
	Plasma (cont'd)	Triglyceride by Spectrophotometry	Beckman Coulter Olympus AU680 Clinical Chemistry System, Triglyceride assay
		Cholesterol Low Density Lipoprotein, (LDL-C) by Auto-calculation	Method as documented in NLT-PAT-WI-CCP-051
		Non-HDL-Cholesterol by Auto-calculation	Method as documented in NLT-PAT-WI-CCP-051
		Creatine Kinase (CK) by Spectrophotometry	Beckman Coulter Olympus AU680 Clinical Chemistry System, Creatine Kinase Assay
		Creatinine by Spectrophotometry	Beckman Coulter Olympus AU680 Clinical Chemistry System, Creatinine (Enzymatic) Assay
	CSF, plasma	Glucose by Spectrophotometry	Beckman Coulter Olympus AU680 Clinical Chemistry System, Glucose Assay
	Plasma	Lactate dehydrogenase (LDH) by Spectrophotometry	Beckman Coulter Olympus AU680 Clinical Chemistry System, Lactate Dehydrogenase Assay
		Osmolality by Freezing Point Depression	Arkray OM-6060 Automatic Osmometer
		Phosphate by Spectrophotometry	Beckman Coulter Olympus AU680 Clinical Chemistry System, Inorganic Phosphorous Assay
		Potassium by Potentiometry	Beckman Coulter Olympus AU680 Clinical Chemistry System, Potassium Assay

Hospital Authority - Princess Margaret Hospital, Department of Pathology
醫院管理局-瑪嘉烈醫院病理部
Clinical Laboratory: 7/F, North Lantau Hospital, 8 Chung Yan Road, Tung Chung, Lantau, New Territories, Hong Kong
香港新界大嶼山東涌松仁路八號北大嶼山醫院七樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**General Chemistry (cont'd)**		
	Plasma	Protein, Total by Spectrophotometry	Beckman Coulter Olympus AU680 Clinical Chemistry System, Total Protein Assay
	CSF	Protein, Total by Spectrophotometry	Beckman Coulter Olympus AU680 Clinical Chemistry System, Urinary/CSF Protein Assay
	Plasma	Sodium by Potentiometry	Beckman Coulter Olympus AU680 Clinical Chemistry System, Sodium Assay
		Troponin I (high sensitivity) by Immunoassay (Chemiluminescent label)	Beckman Coulter Access 2 Immunoassay System High Sensitivity Troponin I Assay
		Urea by Spectrophotometry	Beckman Coulter Olympus AU680 Clinical Chemistry System, Urea Assay
		Uric acid by Spectrophotometry	Beckman Coulter Olympus AU680 Clinical Chemistry System, Uric Acid Assay
	Toxicology		
	Serum	Ethanol by Spectrophotometry	Beckman Coulter Olympus AU 680, Abbott Ethanol Assay
		Paracetamol by Spectrophotometry	Beckman Coulter Olympus AU 680 Clinical Chemistry Analyzer, Sekure Acetaminophen L3K assay
		Salicylate by Spectrophotometry	Beckman Coulter Olympus AU680 Clinical Chemistry System, Salicylate Acid Assay

Hospital Authority - Princess Margaret Hospital, Department of Pathology
醫院管理局-瑪嘉烈醫院病理部
Clinical Laboratory: 7/F, North Lantau Hospital, 8 Chung Yan Road, Tung Chung, Lantau, New Territories, Hong Kong
香港新界大嶼山東涌松仁路八號北大嶼山醫院七樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology	**Blood Bank – General**		
	EDTA blood, clotted blood	ABO and Rh(D) typing by	
		- Red cell agglutination, automated method	Method as documented in NLT-PAT-WI-BBK-013 using Bio-Rad IH-1000 System
		- Red cell agglutination, manual method	Tile and tube techniques as documented in NLT-PAT-WI-BBK-003 and NLT-PAT-WI-BBK-017 DiaClon Gel technique as documented in NLT-PAT-WI-BBK-003
		Antibody screening by	
		- Gel-Indirect antiglobulin test - Saline-Indirect antiglobulin test	Methods as documented in NLT-PAT-WI-BBK-004 and NLT-PAT-WI-BBK-013 using Bio-Rad IH-1000 System
		Crossmatch by	
		- Computer crossmatch	Method as documented in NLT-PAT-WI-BBK-006
		- Immediate spin	Method as documented in NLT-PAT-WI-BBK-006
		- Manual gel test	Method as documented in NLT-PAT-WI-BBK-006
		- Saline-Indirect antiglobulin test	Method as documented in NLT-PAT-WI-BBK-006
	Blood Bank – Immunohaematology		
	EDTA blood, clotted blood	Direct antiglobulin test (DAT) by Red cell agglutination	Gel and tube methods as documented in NLT-PAT-WI-BBK-010
	Blood Bank – Special		
	EDTA blood, clotted blood	Antibody identification by Red cell panel	Gel and tube methods as documented in NLT-PAT-WI-BBK-028
		Red cell phenotyping by	
		- Direct agglutination - Indirect antiglobulin test (IAT)	Methods as documented in NLT-PAT-WI-BBK-024
	Coagulation		
	Citrate blood	Activated Partial Thromboplastin Time (APTT) by	
		- photo-optical end point detection, automated method	Method as documented in NLT-PAT-WI-HAE-006 using ACL Elite Pro Coagulation System
		- clot detection, manual method	Method as documented in NLT-PAT-WI-HAE-008
		- optical turbidimetric method	Werfen ACL TOP 350 CTS

Hospital Authority - Princess Margaret Hospital, Department of Pathology
醫院管理局-瑪嘉烈醫院病理部
Clinical Laboratory: 7/F, North Lantau Hospital, 8 Chung Yan Road, Tung Chung, Lantau, New Territories, Hong Kong
香港新界大嶼山東涌松仁路八號北大嶼山醫院七樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology (cont'd)	**Coagulation (cont'd)**		
	Citrate blood (cont'd)	Prothrombin Time (PT) by	
		- photo-optical end point detection, automated method	Method as documented in NLT-PAT-WI-HAE-006 using ACL Elite Pro Coagulation System
		- clot detection, manual method	Method as documented in NLT-PAT-WI-HAE-007
		- optical turbidimetric method	Werfen ACL TOP 350 CTS
		D-Dimer by	
		- Enzyme-linked Fluorescent Assay	Biomerieux Mini-Vidas System
		- turbidmetric immunoassay	D-Dimer HS 500 by Werfen ACL TOP 350 CTS
	Haematology - General		
	EDTA blood	Peripheral blood smear examination by	Method as documented in NLT-PAT-WI-HAE-005
		- Modified Wright-Giemsa stain, automated method	Method as documented in NLT-PAT-WI-HAE-018 using Hematek 3000 automatic slide stainer
		- Romanowsky stain, manual method	Method as documented in NLT-PAT-WI-HAE-004
		Platelet count, manual method by Neubauer counting chamber	Method as documented in NLT-PAT-WI-HAE-017
		Reticulocyte count, manual by New Methylene Blue Stain	Method as documented in NLT-PAT-WI-HAE-015
		Malaria parasite examination by Thick and thin films	Smear preparation and Giemsa staining (pH 7.2) as documented in NLT-PAT-WI-HAE-010
		-	

Hospital Authority - Princess Margaret Hospital, Department of Pathology
醫院管理局-瑪嘉烈醫院病理部
Clinical Laboratory: 7/F, North Lantau Hospital, 8 Chung Yan Road, Tung Chung, Lantau, New Territories, Hong Kong
香港新界大嶼山東涌松仁路八號北大嶼山醫院七樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Immunology	**Autoantibodies** Serum	Antinuclear Antibody by Indirect immunofluorescent method	AESKUSLIDES ANA-HEp-2 by HELIOS System

Hospital Authority - Yan Chai Hospital, Department of Pathology
醫院管理局仁濟醫院病理部

ADDRESS : Block B, Yan Chai Hospital, 7-11, Yan Chai Street, Tsuen Wan, New Territories, Hong Kong
地址 香港新界荃灣仁濟街 7-11 號仁濟醫院 B 座

ENQUIRY : Mr Michael TSANG Chong-chi
查詢 曾創志先生

TELEPHONE : 2417 8402
電話

FAX : 2416 7162
傳真

E-MAIL : tsangcc1@ha.org.hk
電郵

WEBSITE ADDRESS : N/A
網址

CLIENTELE : Public and private hospitals and clinics
服務對象 公營及私營醫院和診所

Hospital Authority - Yan Chai Hospital, Department of Pathology
醫院管理局仁濟醫院病理部

ADDRESS 地址 : Block B, Yan Chai Hospital, 7-11, Yan Chai Street, Tsuen Wan, New Territories, Hong Kong
香港新界荃灣仁濟街7-11號仁濟醫院B座

(i) Anatomical Pathology Laboratory, 4/F
(ii) Autopsy Service, Basement
(iii) Chemical Pathology Laboratory, 4/F
(iv) Haematology Laboratory and Blood Bank, 4/F

LABORATORY DIRECTOR 化驗所主管 : **Pathologist Director 病理學主管:**
Dr TSANG Koon-ho
曾冠豪醫生
MBBS, FHKCPath, FHKAM(Path)

PATHOLOGIST IN CHARGE OF THE ACCREDITED DISCIPLINE 負責認可範疇的病理學專科醫生 :

Anatomical Pathology 解剖病理學
Dr TSANG Koon-ho 曾冠豪醫生 (Full-time 全職)
Chemical Pathology 化學病理學
Dr Doris CHING Chor-kwan 程楚君醫生 (Consulting 諮詢)
Haematology 血液學
Dr Kate LEUNG Fung-shan 梁鳳珊醫生 (Consulting 諮詢)

ACCREDITED TEST CATEGORY 認可測試類別 : **Medical Testing 醫務化驗**

Anatomical Pathology	解剖病理學
Chemical Pathology	化學病理學
Haematology	血液學

Hospital Authority - Yan Chai Hospital, Department of Pathology
醫院管理局仁濟醫院病理部

Anatomical Pathology Laboratory: 4/F, Block B, 7-11, Yan Chai Street, Tsuen Wan, New Territories, Hong Kong.
香港新界荃灣仁濟街 7-11 號仁濟醫院 B 座 4 樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology	**Cytopathology**		
	Non-gynaecological specimen	Specimen preparation and routine staining by H&E, papanicoloau and special staining	Specimen preparation and routine staining (both automation and manual method): Method as documented in WI-APL-SOP-PUTUP, WI-APL-EQP-AUTOG, WI-APL-SOP-STAIN Special staining (manual method): Method as documented in WI-APL-SOP-STAIN Acid fast bacilli by Ziehl Neelsen Eosinophils by Carbol chromotrope Fungi and Pneumocystis by Grocott hexamine silver Haemosiderin by Perls' Prussian Blue Mucin by Southgate's Mucicarmine, PAS/PASD
	Fine needle aspirates	Fine needle aspirate cytology examination by H&E, Papanicolaou and Giemsa staining	Specimen preparation and routine staining (both automation and manual method): Method as documented in WI-APL-SOP-FINAC, WI-APL-SOP-STAIN
	Histopathology		
	Surgical pathology	Histology examination by H&E and special staining	Specimen preparation method as documented in WI-APL-SOP-SRERJ and WI-APL-SOP-TIEMB H&E staining by automated method as documented in WI-APL-EQP-AUTOG Special Staining (manual method): Method as documented in WI-APL-SOP-STAIN Acid fast bacilli by Ziehl Neelsen Acidic mucins by Alcian blue (pH 0.5 and pH 2.5) Amyloid by Crystal violet (Hucker & Conn)/Congo Red Argyrophil cells by Grimelius silver method Azurophilic granules and granulocytes by Giemsa technique Basement membrane by Periodic Acid Siver Methenamine (PASM) Bile pigment by Fouchet technique Calcium deposits by Alizarin red S Calcium salts by von Kossa Collagen and muscle by Masson Trichrome Copper by Rodamine technique Eosinophils by Carbol chromotrope

Hospital Authority - Yan Chai Hospital, Department of Pathology
醫院管理局仁濟醫院病理部

Anatomical Pathology Laboratory: 4/F, Block B, 7-11, Yan Chai Street, Tsuen Wan, New Territories, Hong Kong.
香港新界荃灣仁濟街 7-11 號仁濟醫院 B 座 4 樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology (cont'd)	**Histopathology (cont'd)**		
	Surgical pathology (cont'd)	Histology examination by (cont'd) H&E and special staining	(Cont'd) Elastic fibre and connective tissue by Victoria Van Gieson Fibrin by Martius yellow-Brilliant Crystal Scarlet-S-soluble blue Fungi by Grocott hexamine silver Glycol groups by Periodic acid-Schiff (PAS) Gram positive and negative bacteria by Gram Technique Haemosiderin by Perls' Prussian blue Hepatitis B antigens by Shikata's Orcein technique Histological architecture by Haematoxylin & Eosin Hyaluronidase digestion of Mucins by Alcian blue Lipofuscin by Long Ziehl-Neelsen Melanin, argentaffin, chromaffin cells by Schmorl/ Masson Fontana ± bleach Mucin and capsule of Cryptococcus neoformans by Southgate's mucicarmine Muscle, striated muscle, neuroglia fibres and connective tissue by PTAH technique (Mallory) Mycobacteria (M. leprae) by Wade Fite Periodate reactive carbohydrates by PAS with α-amylase digestion (PASD) Reticulin by Gordon & Sweet's technique Unsaturated cholesterol ester, triglycerides and phospholipids by Sudan Black Unsaturated hydrophobic lipid by Oil red O
	Intra-operative frozen section for fresh tissue specimens and biopsies	Histology examination by H&E staining	Specimen preparation and Haematoxylin and Eosin stain (manual) as documented in WI-APL-SOP- FROZE
	Fresh tissue specimens and biopsies; special specimens	Histology examination and enzyme histochemistry by H&E and special staining	Specimen preparation, Haematoxylin and Eosin stain and enzyme histochemistry test as documented in WI-APL-SOP-RENAL, WI-APL-SOP-SKIBI, WI-APL-SOP-HIRSD, WI-APL-SOP-ATTCU
	Tissue specimens	Epstein-Barr Virus Early RNA (EBV EBER) by In-situ hybridization	Method as documented in WI-APL-SOP-ISHOP

Hospital Authority - Yan Chai Hospital, Department of Pathology
醫院管理局仁濟醫院病理部

Anatomical Pathology Laboratory: 4/F, Block B, 7-11, Yan Chai Street, Tsuen Wan, New Territories, Hong Kong.
香港新界荃灣仁濟街 7-11 號仁濟醫院 B 座 4 樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology (cont'd)	**Immunohistochemistry** Renal and skin biopsies	Immunofluorescence examination by Manual method	Specimen preparation and staining by Direct Immunofluorescence : Method as documented in WI-APL-SOP-IMMFL For IgA / IgM / IgG / Fibrinogen / Complement 3 / C1q
	Histological specimens	Immunohistochemical examination for various antigen markers by Automated method	Slide preparation and staining (Ventana Benchmark Ultra): Method as documented in WI-APL-EQP-VBUIS Detection system: Roche UltraView DAB Detection Kit and Roche OptiView DAB Detection Kit Antigen retrieval: Roche CC1 heat-induced retrieval or Protease enzyme retrieval methods

Hospital Authority - Yan Chai Hospital, Department of Pathology
醫院管理局仁濟醫院病理部

Autopsy Service: Basement, Block B, 7-11, Yan Chai Street, Tsuen Wan, New Territories, Hong Kong.
香港新界荃灣仁濟街 7-11 號仁濟醫院 B 座地庫

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology (cont'd)	**Autopsy** Adult, fetal and pediatric autopsy	Autopsy examination by H&E and special staining	Routine audit autopsy procedure: Method as documented in WI-MOR-ROU-AAUEN and WI-MOR-ROU-AAUCH Pediatric autopsy procedure: Method as documented in WI-MOR-AUT-PEDEH and WI-MOR-AUT-PEDCH Special autopsy procedure: Method as documented in WI-MOR-SPE-AUTEN and WI-MOR-SPE-AUTCH Routine staining: Method as documented in WI-APL-SOP-STAIN H&E staining by automated method as documented in WI-APL-EQP-AUTOG Special staining as in Histopathology: Method as documented in WI-APL-SOP-STAIN

Hospital Authority - Yan Chai Hospital, Department of Pathology
醫院管理局仁濟醫院病理部
Chemical Pathology Laboratory: 4/F, Block B, 7-11, Yan Chai Street, Tsuen Wan, New Territories, Hong Kong.
香港新界荃灣仁濟街 7-11 號仁濟醫院 B 座 4 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology	**Blood gases and Co-oximetry**		
	Heparinized whole blood	Blood Gas include:	
		pCO_2 by Potentiometry	Siemens Rapid Lab 1265 blood gas analyser
		pH by Potentiometry	Siemens Rapid Lab 1265 blood gas analyser
		pO_2 by Amperometry	Siemens Rapid Lab 1265 blood gas analyser
		Base Excess by Calculation	Siemens Rapid Lab 1265 blood gas analyser
		Bicarbonate by Calculation	Siemens Rapid Lab 1265 blood gas analyser
		Ionized Calcium by Potentiometry (Ion Selective Electrode)	Siemens Rapid Lab 1265 blood gas analyser
		O_2 Saturation by Calculation	Siemens Rapid Lab 1265 blood gas analyser
		Carboxyhaemoglobin by Co-oximetry	Siemens, Rapid Lab 1265 blood gas analyser
		Methaemoglobin by Co-oximetry	Siemens, Rapid Lab 1265 blood gas analyser
		Oxyhaemoglobin by Co-oximetry	Siemens, Rapid Lab 1265 blood gas analyser
	General Chemistry		
	EDTA Plasma	Ammonia by Spectrophotometry	Roche cobas 8000 System, NH3L2 assay
	Heparinized Plasma	Amylase by Spectrophotometry	Roche cobas 8000 System, AMYL2 assay
		Alanine Aminotransferase (ALT) by Spectrophotometry	Roche cobas 8000 System, ALTPM assay

Hospital Authority - Yan Chai Hospital, Department of Pathology
醫院管理局仁濟醫院病理部
Chemical Pathology Laboratory: 4/F, Block B, 7-11, Yan Chai Street, Tsuen Wan, New Territories, Hong Kong.
香港新界荃灣仁濟街 7-11 號仁濟醫院 B 座 4 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology (cont'd)	**General Chemistry (cont'd)**		
	Heparinized Plasma	Albumin by Spectrophotometry	Roche cobas 8000 System, ALBP assay
		Alkaline Phosphatase (ALP) by Spectrophotometry	Roche cobas 8000 System, ALP2 assay
		Bilirubin, Total by Spectrophotometry	Roche cobas 8000 System, BILT3 assay
		Calcium by Spectrophotometry	Roche cobas 8000 System, CA2 assay
		Cholesterol, Total by Spectrophotometry	Roche cobas 8000 System, CHOL2 assay
		Cholesterol High Density Lipoprotein, (HDL-C) by Spectrophotometry	Roche cobas 8000 System, HDLC4 assay
		Cholesterol Low Density Lipoprotein,(LDL-C) by Calculation	Roche cobas 8000 System, (Calculated from Cholesterol, Total, HDL-C and Triglyceride)
		Creatinine by Spectrophotometry	Roche cobas 8000 System, CREJ2 assay
		Creatine Kinase (CK) by Spectrophotometry	Roche cobas 8000 System, CK assay
		eGFR by Calculation	Roche cobas 8000 System, (Calculated from Creatinine)
		Globulin by Calculation	Roche cobas 8000 System, (Calculated from Protein,Total and Albumin)
	Fluoride plasma, CSF	Glucose by Spectrophotometry	Roche cobas 8000 System, GLUC3 assay
	Fluoride Plasma	Lactate by Spectrophotometry	Roche cobas 8000 System, LACT2 assay

Hospital Authority - Yan Chai Hospital, Department of Pathology
醫院管理局仁濟醫院病理部
Chemical Pathology Laboratory: 4/F, Block B, 7-11, Yan Chai Street, Tsuen Wan, New Territories, Hong Kong.
香港新界荃灣仁濟街 7-11 號仁濟醫院 B 座 4 樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology (cont'd)	**General Chemistry (cont'd)**		
	Heparinized Plasma	Lactate dehydrogenase by Spectrophotometry	Roche cobas 8000 System, LDHI2 assay
		Magnesium by Spectrophotometry	Roche cobas 8000 System, MG2 assay
	Heparinized plasma	Phosphate, Inorganic by Spectrophotometry	Roche cobas 8000 System, PHOS2 assay
		Potassium by Potentiometry	Roche cobas 8000 System, K assay
	Pleural fluid	pH by Potentiometry	Siemens Rapid Lab 1265 blood gas analyser
	CSF	Protein, Total by Spectrophotometry	Roche cobas 8000 System, TPUC3 assay
	Heparinized Plasma	Protein, Total by Spectrophotometry	Roche cobas 8000 System, TP2 assay
		Sodium by Potentiometry	Roche cobas 8000 System, Na assay
		Triglyceride by Spectrophotometry	Roche cobas 8000 System, TRIGL assay
		Urea by Spectrophotometry	Roche cobas 8000 System, UREAL assay
		Urate by Spectrophotometry	Roche cobas 8000 System, UA2 assay

Hospital Authority - Yan Chai Hospital, Department of Pathology
醫院管理局仁濟醫院病理部
Chemical Pathology Laboratory: 4/F, Block B, 7-11, Yan Chai Street, Tsuen Wan, New Territories, Hong Kong.
香港新界荃灣仁濟街 7-11 號仁濟醫院 B 座 4 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類**	**SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性**	**METHOD OR TECHNIQUE USED 方法或應用技術**
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology (cont'd)	**Toxicology** Serum	Acetaminophen (Paracetamol) by Spectrophotometry	Roche cobas 8000 System, ACETA assay
		Ethanol by Spectrophotometry	Roche cobas 8000 System, ETOH2 assay
		Salicylate by Spectrophotometry	Roche cobas 8000 System, SALI assay

Hospital Authority - Yan Chai Hospital, Department of Pathology
醫院管理局仁濟醫院病理部
Haematology Laboratory and Blood Bank: 4/F, Block B, 7-11, Yan Chai Street, Tsuen Wan, New Territories, Hong Kong.
香港新界荃灣仁濟街 7-11 號仁濟醫院 B 座 4 樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology	**Blood Bank - General**		
	EDTA blood and clotted blood	ABO and Rh (D) typing by Red cell agglutination	Method as documented in WI-BBK-TEP-ABOD
	EDTA blood	ABO and Rh(D) typing by Red cell agglutination, automated	Automated system: WI-BBK-TEP-SOP-IH by IH-1000
	EDTA blood and clotted blood	Antibody screening by Red cell agglutination	Method as documented in WI-BBK-TEP-ABSCM
	EDTA blood	Antibody screening by Red cell agglutination, automated	Automated system: WI-BBK-TEP-SOP-IH by IH-1000
	Clotted blood	Red cell phenotyping by - Direct agglutination - Indirect antiglobulin test	Method as documented in WI-BBK-TEP-PHENO
		Crossmatch by - Computer crossmatch - Immediate spin - DiaMed gel test	Method as documented in WI-BBK-TEP- ABSCM
	Blood Bank - Special		
	EDTA blood and clotted blood	Transfusion reaction, including - ABO and Rh(D) typing - Antibody screening - Red cell antigen phenotyping - Antibody identification - Direct antiglobulin test - Crossmatching	Method as documented in WI-BBK-MIS-TXRXI
	Coagulation		
	Citrate blood	Coagulation studies, automated including - Prothrombin Time (PT) - Activated partial thromboplastin time (APTT)	ACL TOP 550 CTS

Hospital Authority - Yan Chai Hospital, Department of Pathology
醫院管理局仁濟醫院病理部

Haematology Laboratory and Blood Bank: 4/F, Block B, 7-11, Yan Chai Street, Tsuen Wan, New Territories, Hong Kong.
香港新界荃灣仁濟街 7-11 號仁濟醫院 B 座 4 樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology (cont'd)	**Haematology - General** EDTA whole blood	Complete blood count including - Haemoglobin - Haematocrit - Leucocyte count (WBC count) - Mean corpuscular volume (MCV) - Mean corpuscular haemoglobin concentration (MCHC) - Mean corpuscular haemoglobin (MCH) - Platelet count - Red cell count - Red cell distribution width (RDW) - Mean Platelet Volume (MPV)	Sysmex XN9100
		Leucocyte differential count by Automated method	Sysmex XN9100
		Malaria parasite examination by Thick and thin films	Method as documented in WI-HAE-MIS-MP
		Peripheral blood smear examination by - Wright – Giemsa stain - May-Grunwald Giemsa Stain	Method as documented in WI-HAE-GEN-PBS Method as documented in WI-HAE-GEN-H2000 Method as documented in WI-HAE-GEN-MGG
		Reticulocyte Count by Automated method	Sysmex XN9100

Hospital Authority - Caritas Medical Centre, Department of Clinical Pathology
醫院管理局–明愛醫院病理科學部

ADDRESS : 111 Wing Hong Street, Shamshuipo, Kowloon, Hong Kong
地址 香港九龍深水埗永康街 111 號

ENQUIRY : Ms YIP Wing-yee
查詢 葉詠儀女士

TELEPHONE : 3408 6014
電話

FAX : 2745 1804
傳真

E-MAIL : meg.yip@ha.org.hk
電郵

WEBSITE ADDRESS : https://www.ha.org.hk
網址

CLIENTELE : Public and private hospitals and clinics
服務對象 公營及私營醫院和診所

Hospital Authority - Caritas Medical Centre, Department of Clinical Pathology
醫院管理局–明愛醫院病理科學部

ADDRESS : 111 Wing Hong Street, Shamshuipo, Kowloon, Hong Kong
地址 香港九龍深水埗永康街 111 號

(i) Histopathology & Cytopathology Laboratory, 12/F, Wai Oi Block
(ii) Core Laboratory (Chemical Pathology, Hematology and Blood Bank), 8A, Wai Shun Block
(iii) Autopsy Service, LG5, Wai Ming Block

LABORATORY DIRECTOR
化驗所主管 : **Pathologist Director 病理學主管:**
Dr LO Yan-fai
盧恩輝醫生
MBChB, FRCPA, FHKCPath, FHKAM (Pathology)

PATHOLOGIST IN CHARGE OF THE ACCREDITED DISCIPLINE
負責認可範疇的病理學專科醫生 :

Anatomical Pathology 解剖病理學
Dr LO Yan-fai 盧恩輝醫生 (Full-time 全職)

Chemical Pathology 化學病理學
Dr Nike LAU Kwai-cheung 劉桂璋醫生 (Consulting 諮詢)

Haematology 血液學
Dr Kate LEUNG Fung-shan 梁鳳珊醫生 (Consulting 諮詢)

Medical Genetics (Molecular Genetics) 醫學遺傳學 (分子遺傳學)
Dr LO Yan-fai 盧恩輝醫生 (Full-time 全職)

ACCREDITED TEST CATEGORY
認可測試類別 : **Medical Testing 醫務化驗**
Anatomical Pathology 解剖病理學
Chemical Pathology 化學病理學
Haematology 血液學
Medical Genetics (Molecular Genetics) 醫學遺傳學（分子遺傳學）

Hospital Authority - Caritas Medical Centre, Department of Clinical Pathology
醫院管理局–明愛醫院病理科學部

Histopathology & Cytopathology Laboratory: 12/F, Wai Oi Block, Caritas Medical Centre, 111 Wing Hong Street, Shamshuipo, Kowloon, Hong Kong
香港九龍深水埗永康街 111 號明愛醫院懷愛樓 12 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類**	**SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性**	**METHOD OR TECHNIQUE USED 方法或應用技術**
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology	**Cytopathology**		
	Fine needle aspiration	Fine needle aspiration cytology examination by H&E and Papanicolaou staining	Specimen preparation and routine staining (automated method): Method as documented in WI-CYT-FNA-PROCE and WI-CYT-STA-PROCE Haematoxylin and Eosin stain Papanicolaou stain
	Gynaecological specimens	Gynaecological cytology examination by Papanicolaou staining	Specimen preparation and routine staining (automated method): ThinPrep + Papanicolaou stain Method as documented in WI-CYT-SPE-REGIS, WI-CYT-STA-PROCE, and WI-CYT-SPE-THINP
	Non-gynaecological specimens	Non-gynaecological cytology examination by H&E, Papanicolaou and special staining	Specimen preparation and routine staining (automated method): Haematoxylin and Eosin stain Papanicolaou stain Method as documented in WI-CYT-SPE-REGIS, WI-CYT-NGN-PUTUP and WI-CYT-STA-PROCE Special staining (manual method): Diff Quik stain Ziehl-Neelsen stain Grocott's Methenamine silver Method as documented in WI-CYT-STA-PROCE and WI-ANP-STA-SPECI

Hospital Authority - Caritas Medical Centre, Department of Clinical Pathology
醫院管理局–明愛醫院病理科學部

Histopathology & Cytopathology Laboratory: 12/F, Wai Oi Block, Caritas Medical Centre, 111 Wing Hong Street, Shamshuipo, Kowloon, Hong Kong
香港九龍深水埗永康街 111 號明愛醫院懷愛樓 12 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類**	**SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性**	**METHOD OR TECHNIQUE USED 方法或應用技術**
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology (cont'd)	**Histopathology** Surgical pathology	Histology examination by H&E and special staining	Specimen preparation as documented in WI-ANP-SPE-RECPT, WI-ANP-CUT-BIOPS, WI-ANP-CUT-MISCE,WI-ANP-CUT-SURGI, WI-ANP-TIS-OPERA, WI-ANP-EMB-BLOCK and WI-ANP-SEC-BLOCK H&E staining (automated method) Special Staining (manual method): Method as documented in WI-ANP-STA-SPECI Acid fast bacilli by Ziehl Neelsen Acidic mucins by Alcian blue (pH 2.5) Acidic & neutral mucins by Alcian Blue/ PAS Amyloid by Crystal violet (Hucker & Conn) Amyloid by Congo Red Argyrophil cells by Grimelius silver method Basement membrane by Periodic Acid Silver Methanamine (PASM) Calcium deposits by Alizarin red S Calcium salts by von Kossa Collagen and muscle by Masson trichrome Connective tissue by van Gieson Stain Copper by Rhodanine technique Elastic fibre by Millers elastic Stain Fibrin by Martius yellow-Brilliant Crystal Scarlet-S-soluble blue Fungi by Grocott hexamine silver Glycol groups by Periodic acid-Schiff (PAS) Gram positive and negative bacteria by Gram Technique Haemosiderin by Perl's Prussian blue Hepatitis B antigens by Shikata's Orcein technique Histological architecture by Haematoxylin & Eosin Hyaluronidase digestion of Mucins by Alcian blue Mast cells by chloroacetate esterase Melanin by Schmorl +/- bleaching Melanin by Masson Fontana Mucin by Southgate's mucicarmine Mycobacteria (*M. leprae*) by Wade Fite

Hospital Authority - Caritas Medical Centre, Department of Clinical Pathology
醫院管理局–明愛醫院病理科學部

Histopathology & Cytopathology Laboratory: 12/F, Wai Oi Block, Caritas Medical Centre, 111 Wing Hong Street, Shamshuipo, Kowloon, Hong Kong
香港九龍深水埗永康街 111 號明愛醫院懷愛樓 12 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類**	**SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性**	**METHOD OR TECHNIQUE USED 方法或應用技術**
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology (cont'd)	**Histopathology** (cont'd) Surgical pathology (cont'd)	Histology examination by H&E and special staining (cont'd)	Special staining (manual method) (cont'd): Periodate reactive carbohydrates by PAS with α-amylase digestion (PASD) Reticulin by Gordon & Sweet's technique Spirochetes by Warthin– Stary's Silver Unsaturated hydrophobic lipid by Oil red O Urate by Hexamine silver technique
	Intra-operative frozen section for fresh tissue specimens and biopsies	Histology examination by H&E and special staining	Specimen preparation and H&E staining (manual) as documented in WI-ANP-UFS-FROZS
	Fresh tissue specimens and biopsies; special specimens	Histology examination and enzyme histochemistry by special staining	Specimen preparation and staining: Method as documented in WI-ANP-MUS-BIOPS For muscle biopsies: ATPase pH 4.2, ATPase pH 4.6, ATPase pH 9.4 NADH-Tetrazolium Reductase Gomori's Modified Trichrome
	Renal and skin biopsies	Immunofluorescence examination by Manual method	Specimen preparation and staining: IgA / IgM / IgG / Fibrinogen / Complement 3/ C1q by Direct Immunofluorescence Method Method as documented in WI-ANP-IMF-PROCE
	Histological specimens	Immunohistochemical examination for various antigen markers by automatic method	Slide preparation and staining (automatic method): as documented in WI-ANP-IHC-PROCE Antigen retrieval : Enzymatic digestion or heat-induced epitope retrieval Detection system: multimer detection

Hospital Authority - Caritas Medical Centre, Department of Clinical Pathology
醫院管理局–明愛醫院病理科學部

Histopathology & Cytopathology Laboratory: 12/F, Wai Oi Block, Caritas Medical Centre, 111 Wing Hong Street, Shamshuipo, Kowloon, Hong Kong
香港九龍深水埗永康街 111 號明愛醫院懷愛樓 12 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類**	**SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性**	**METHOD OR TECHNIQUE USED 方法或應用技術**
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics	**Molecular Genetics (anatomical pathology)** Tissue specimens	Epstein-Barr Virus Early RNA(EBV EBER) by In-situ Hybridization (ISH)	Method as documented in Section 1 of WI-ANP-ISH-PROCE

Hospital Authority - Caritas Medical Centre, Department of Clinical Pathology
醫院管理局–明愛醫院病理科學部

Autopsy Service: LG5, Wai Ming Block, Caritas Medical Centre, 111 Wing Hong Street, Shamshuipo, Kowloon, Hong Kong
香港九龍深水埗永康街 111 號明愛醫院懷明樓 LG5

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類**	**SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性**	**METHOD OR TECHNIQUE USED 方法或應用技術**
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology	**Autopsy** Adult, fetal and pediatric autopsy	Autopsy examination by routine and special staining	Autopsy method and specimen preparation Method & Staining as documented in: WI-MOR-AUT-ROAAU WI-MOR-AUT-ROAAC WI-MOR-AUT-PAEDA WI-MOR-AUT-PAEDC WI-MOR-AUT-SPECA WI-MOR-AUT-SPECC Routine and special staining in Histopathology: WI-ANP-STA-SPECI

Hospital Authority - Caritas Medical Centre, Department of Clinical Pathology
醫院管理局–明愛醫院病理科學部

Core Laboratory: 8A, Wai Shun Block, Caritas Medical Centre, 111 Wing Hong Street, Shamshuipo, Kowloon, Hong Kong
香港九龍深水埗永康街 111 號明愛醫院懷信樓 8A

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類**	**SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性**	**METHOD OR TECHNIQUE USED 方法或應用技術**
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology	**Blood gases and Co-oximetry** Heparinized whole blood	Blood Gas include: pCO_2 by Potentiometry	Radiometer ABL90 Flex Plus Blood Gas Analyzer
		pH by Potentiometry	Radiometer ABL90 Flex Plus Blood Gas Analyzer
		pO_2 by Optical system for pO_2	Radiometer ABL90 Flex Plus Blood Gas Analyzer
		Base Excess by Auto calculation	Radiometer ABL90 Flex Plus Blood Gas Analyzer
		Bicarbonate by Auto calculation	Radiometer ABL90 Flex Plus Blood Gas Analyzer
		O_2 Saturation by Auto calculation	Radiometer ABL90 Flex Plus Blood Gas Analyzer
		Carboxyhaemoglobin by Co-oximetry	Radiometer ABL90 Flex Plus Blood Gas Analyzer
		Ionized Calcium by Potentiometry	Radiometer ABL90 Flex Plus Blood Gas Analyzer
		Methaemoglobin by Co-oximetry	Radiometer ABL90 Flex Plus Blood Gas Analyzer

Hospital Authority - Caritas Medical Centre, Department of Clinical Pathology
醫院管理局–明愛醫院病理科學部

Core Laboratory: 8A, Wai Shun Block, Caritas Medical Centre, 111 Wing Hong Street, Shamshuipo, Kowloon, Hong Kong
香港九龍深水埗永康街 111 號明愛醫院懷信樓 8A

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類**	**SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性**	**METHOD OR TECHNIQUE USED 方法或應用技術**
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**General Chemistry (24 hours)**		
	Plasma, heparin	Alanine Aminotransferase (ALT) by Spectrophotometry	Roche Cobas c8000 ALT assay Method as documented in WI-CCP-TSM-P_ALT
		Albumin by Spectrophotometry	Roche Cobas c8000 Albumin assay Method as documented in WI-CCP-TSM-P_ALB
		Alkaline Phosphatase (ALP) by Spectrophotometry	Roche Cobas c8000 ALP assay Method as documented in WI-CCP-TSM-P_ALP
		Amylase by Spectrophotometry	Roche Cobas c8000 Amylase assay Method as documented in WI-CCP-TSM-P_AMY
	Plasma, EDTA	Ammonia by Spectrophotometry	Roche Cobas c8000 NH3 assay Method as documented in WI-CCP-TSM-P_AMM
	Plasma, heparin	Aspartate Aminotransferase (AST) by Spectrophotometry	Roche Cobas c8000 AST assay Method as documented in WI-CCP-TSM-P_AST
		Bilirubin, Direct by Spectrophotometry	Roche Cobas c8000 Direct bilirubin assay Method as documented in WI-CCP-TSM-P_DBI
		Bilirubin, Neonatal by Spectrophotometry	Roche Cobas c8000 Total bilirubin assay Method as documented in WI-CCP-TSM-P_TBI
		Bilirubin, Total by Spectrophotometry	Roche Cobas c8000 Total bilirubin assay Method as documented in WI-CCP-TSM-P_TBI
		Calcium by Spectrophotometry	Roche Cobas c8000 Calcium assay Method as documented in WI-CCP-TSM-P_CAL
		Chloride by Potentiometry (Indirect Ion Selective Electrode)	Roche Cobas c8000 ISE assay Method as documented in WI-CCP-TSM-P_CHL

Hospital Authority - Caritas Medical Centre, Department of Clinical Pathology
醫院管理局–明愛醫院病理科學部

Core Laboratory: 8A, Wai Shun Block, Caritas Medical Centre, 111 Wing Hong Street, Shamshuipo, Kowloon, Hong Kong
香港九龍深水埗永康街 111 號明愛醫院懷信樓 8A

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類**	**SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性**	**METHOD OR TECHNIQUE USED 方法或應用技術**
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**General Chemistry (24 hours)** (cont'd)		
	Plasma, heparin (cont'd)	Cholesterol by Spectrophotometry	Roche Cobas c8000 cholesterol assay Method as documented in WI-CCP-TSM-P_CHO
		High Density Cholesterol, (HDL-C) by Spectrophotometry (Direct measurement)	Roche Cobas c8000 HDL assay Method as documented in WI-CCP-TSM-P_HDL
		Creatine kinase (CK) by Spectrophotometry	Roche Cobas c8000 CK assay Method as documented in WI-CCP-TSM-P_CPK
		Creatinine by Spectrophotometry	Roche Cobas c8000 creatinine assay Method as documented in WI-CCP-TSM-P_CRE
		Gamma Glutamyl Transferase (GGT) by Spectrophotometry	Roche Cobas c8000 GGT assay Method as documented in WI-CCP-TSM-P_GGT
	Plasma, fluoride	Glucose by Spectrophotometry	Roche Cobas c8000 glucose assay Method as documented in WI-CCP-TSM-P_GLU
	CSF	Glucose by Spectrophotometry	Roche Cobas c8000 glucose assay Method as documented in WI-CCP-TSM-CSF_G
	Serum, clotted blood	Iron by Spectrophotometry	Roche Cobas c8000 iron assay Method as documented in WI-CCP-TSM-P_TFE
	Plasma, heparin	Lactate dehydrogenase (LDH) by Spectrophotometry	Roche Cobas c8000 LDH assay Method as documented in WI-CCP-TSM-P_LDH
		Magnesium by Spectrophotometry	Roche Cobas c8000 magnesium assay Method as documented in WI-CCP-TSM-P_MAG
	Plasma, urine	Osmolality by Freezing Point Depression	Arkray Osmostation OM-6060

Hospital Authority - Caritas Medical Centre, Department of Clinical Pathology
醫院管理局–明愛醫院病理科學部

Core Laboratory: 8A, Wai Shun Block, Caritas Medical Centre, 111 Wing Hong Street, Shamshuipo, Kowloon, Hong Kong
香港九龍深水埗永康街 111 號明愛醫院懷信樓 8A

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類**	**SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性**	**METHOD OR TECHNIQUE USED 方法或應用技術**
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**General Chemistry (24 hours)** (cont'd)		
	Fluid (Pleural)	pH by Potentiometry (Ion Selective Electrode)	Radiometer ABL90 Flex Blood Gas Analyser
	Plasma, heparin	Phosphate by Spectrophotometry	Roche Cobas c8000 phosphate assay Method as documented in WI-CCP-TSM-P_PO4
		Potassium by Potentiometry (Indirect Ion Selective Electrode)	Roche Cobas c8000 ISE assay Method as documented in WI-CCP-TSM-P_POT
		Protein, Total by Spectrophotometry	Roche Cobas c8000 total protein assay Method as documented in WI-CCP-TSM-P_TPR
	CSF	Protein, Total by Spectrophotometry	Roche Cobas c8000 Urine total protein assay Method as documented in WI-CCP-TSM- CSF_P
		Sodium by Potentiometry (Indirect Ion Selective Electrode)	Roche Cobas c8000 ISE assay Method as documented in WI-CCP-TSM-P_SOD
		Triglyceride by Spectrophotometry	Roche Cobas c8000 triglyceride assay Method as documented in WI-CCP-TSM-P_TRI
	Plasma	Troponin I by Immunoassay (Enzyme-based label)	Beckman DXI-800, hsTNI assay Method as documented in WI-CCP-TSM-HSTNI
	Plasma, heparin	Urate by Spectrophotometry	Roche Cobas c8000 urate assay Method as documented in WI-CCP-TSM-P_URA
		Urea by Spectrophotometry	Roche Cobas c8000 urea assay Method as documented in WI-CCP-TSM-P_URE

Hospital Authority - Caritas Medical Centre, Department of Clinical Pathology
醫院管理局–明愛醫院病理科學部

Core Laboratory: 8A, Wai Shun Block, Caritas Medical Centre, 111 Wing Hong Street, Shamshuipo, Kowloon, Hong Kong
香港九龍深水埗永康街 111 號明愛醫院懷信樓 8A

MEDICAL TESTING			
DISCIPLINE **專科範疇**	**TEST AREA OR SAMPLE TYPE** **測試範圍或樣本種類**	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** **特定測試或量度的特性**	**METHOD OR TECHNIQUE USED** **方法或應用技術**
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**General Chemistry (24 hours)** (cont'd)		
	Plasma, heparin (cont'd)	Lactate by Spectrophotometry	Roche Cobas c8000 lactate assay Method as documented in WI-CCP-TSM-P_LAC
	Serum, clotted blood	Unsaturated Iron Binding Capacity (UIBC) by Spectrophotometry	Roche Cobas c8000 UIBC assay Method as documented in WI-CCP-TSM-P_TIB
	Toxicology (24 hours)		
	Plasma, heparin	Paracetamol by Spectrophotometry	Roche Cobas c8000 acetaminophen assay Method as documented in WI-CCP-TSM-P_PAR
		Salicylates by Spectrophotometry	Roche Cobas c8000 salicylates assay Method as documented in WI-CCP-TSM-P_SAL
	Urine Chemistry (Spot or 24 hours)		
	Urine	Calcium by Spectrophotometry	Roche Cobas c8000 Calcium assay Method as documented in WI-CCP-TSM-U_CAL
		Chloride by Potentiometry (Indirect Ion Selective Electrode)	Roche Cobas c8000 ISE assay Method as documented in WI-CCP-TSM- U_CHL
		Creatinine by Spectrophotometry	Roche Cobas c8000 creatinine assay Method as documented in WI-CCP-TSM- U_CRE
		Microalbumin / Creatinine ratio by Calculation	Roche Cobas c8000 Albumin assay Method as documented in WI-CCP-TSM- U_ALB
		Potassium by Potentiometry (Indirect Ion Selective Electrode)	Roche Cobas c8000 ISE assay Method as documented in WI-CCP-TSM- U_POT

Hospital Authority - Caritas Medical Centre, Department of Clinical Pathology
醫院管理局–明愛醫院病理科學部

Core Laboratory: 8A, Wai Shun Block, Caritas Medical Centre, 111 Wing Hong Street, Shamshuipo, Kowloon, Hong Kong
香港九龍深水埗永康街 111 號明愛醫院懷信樓 8A

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**Urine Chemistry (Spot or 24 hours)** (cont'd) Urine (cont'd)	Protein, Total by Spectrophotometry	Roche Cobas c8000 urine total protein assay Method as documented in WI-CCP-TSM- U_UTP
		Protein / Creatinine ratio by Calculation	Roche Cobas c8000 urine total protein assay Method as documented in WI-CCP-TSM- U_ UTP
		Sodium by Potentiometry (Indirect Ion Selective Electrode)	Roche Cobas c8000 ISE assay Method as documented in WI-CCP-TSM- U_SOD
		Urea by Spectrophotometry	Roche Cobas c8000 urea assay Method as documented in WI-CCP-TSM- U_URE
		Creatinine clearance by Calculation	Roche Cobas c8000 creatinine assay Method as documented in WI-CCP-TSM- U_CRE
		Microalbumin by Immunoturbidimetry	Roche Cobas c8000 Albumin assay Method as documented in WI-CCP-TSM- U_ALB
	Hormones (Normal office hours) Serum	Thyroid stimulating hormone (TSH) by Immunoassay (Enzyme-based label)	Beckman DXI-800, hypersensitive hTSH
		Thyroxine, Free (FT4) by Immunoassay (Enzyme-based label)	Beckman DXI-800, Free T4
		Tri-iodothyronine, Free (FT3) by Immunoassay (Enzyme-based label)	Beckman DXI-800, Free T3

Hospital Authority - Caritas Medical Centre, Department of Clinical Pathology
醫院管理局–明愛醫院病理科學部

Core Laboratory: 8A, Wai Shun Block, Caritas Medical Centre, 111 Wing Hong Street, Shamshuipo, Kowloon, Hong Kong
香港九龍深水埗永康街 111 號明愛醫院懷信樓 8A

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類**	**SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性**	**METHOD OR TECHNIQUE USED 方法或應用技術**
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**Special Chemistry (Normal office hours)**		
	EDTA whole blood	Haemoglobin A1c (HbA1c) by Immunoturbidimetry	Roche Cobas C513, Tina-quant Hemoglobin A1cDx Gen.3
	Stool	Occult blood by Guaiac (Chemical) Test	Seracult Plus
	Serum	Folate by Immunoassay (Chemiluminescent label)	Beckman DXI-800, Folate
		Vitamin B12 by Immunoassay (Chemiluminescent label)	Beckman DXI-800, Vitamin B12

Hospital Authority - Caritas Medical Centre, Department of Clinical Pathology
醫院管理局–明愛醫院病理科學部

Core Laboratory: 8A, Wai Shun Block, Caritas Medical Centre, 111 Wing Hong Street, Shamshuipo, Kowloon, Hong Kong
香港九龍深水埗永康街 111 號明愛醫院懷信樓 8A

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類**	**SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性**	**METHOD OR TECHNIQUE USED 方法或應用技術**
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology	**Blood Bank – General (24 hours)**		
	EDTA blood	ABO and Rh (D) typing by	
		Red cell agglutination	Bio-rad gel card using Bio-rad IH-1000 and manual method Method as documented in WI-BBK-SOP-T0030 Method as documented in WI-BBK-SOP-T0029
		Antibody screening by	
		Indirect antiglobulin test	Bio-rad gel card using Bio-rad IH-1000 and manual method by Bio-rad gel card Method as documented in WI-BBK-SOP-T0030
		Crossmatching by	
		-Indirect antiglobulin test	Bio-rad gel card using Bio-rad IH-1000 and manual method by Bio-rad gel card Method as documented in WI-BBK-SOP-T0030
		-Electronic cross-match	Method as documented in WI-BBK-SOP-T0005
		-Saline-Indirect antiglobulin test	Method as documented in WI-BBK-SOP-T0028
	Blood Bank – Immunohaematology (Normal office hours)		
	EDTA Blood	Direct antiglobulin test (DAT) by	
		Red cell agglutination	Bio-rad gel card using Bio-rad IH-1000 Method as documented in WI-BBK-SOOP-T0022
		Indirect antiglobulin test by	
		Red cell agglutination	Bio-rad gel card using Bio-rad IH-1000 and manual method by Bio-rad gel card Method as documented in WI-BBK-SOP-T0030
	Blood Bank – Special (24 hours)		
	EDTA blood	Transfusion reaction including	
		- ABO and Rh(D) typing	Bio-rad gel card using Bio-rad IH-1000 and manual method by Bio-rad gel card Method as documented in WI-BBK-SOP-T0011
		- Antibody screening	
		- Crossmatching	
		- Direct antiglobulin test	
	Coagulation (24 hours)		
	Citrate blood	Coagulation studies, automated including	
		- Prothrombin Time (PT)	ACL TOP 550 coagulation analyser Method as documented in WI-HAE-COA-W0004
		- Activated partial thromboplastin time (APTT)	

Hospital Authority - Caritas Medical Centre, Department of Clinical Pathology
醫院管理局–明愛醫院病理科學部

Core Laboratory: 8A, Wai Shun Block, Caritas Medical Centre, 111 Wing Hong Street, Shamshuipo, Kowloon, Hong Kong
香港九龍深水埗永康街 111 號明愛醫院懷信樓 8A

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類**	**SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性**	**METHOD OR TECHNIQUE USED 方法或應用技術**
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology (cont'd)	**Haematology - General (24 hours)**		
	EDTA whole blood	Complete blood count including - Haemoglobin - Haematocrit - Leucocyte count (WBC count) - Mean corpuscular volume (MCV) - Mean corpuscular haemoglobin concentration (MCHC) - Mean corpuscular haemoglobin (MCH) - Platelet count - Red cell count - Red cell distribution width (RDW) - Leucocyte differential count by automated method	Sysmex XN-3000 and Sysmex XN-1000 Method as documented in WI-HAE-HGN-E0010
		Leucocyte differential count by manual method	Hematek stain machine or Manual method as documented in WI-HAE-HGN-E0003 Manual method as documented in WI-HAE-HGN-P005
		Malaria parasite examination by Thick and thin films	Manual method as documented in WI-HAE-HGN-P008 documented in WI-HAE-HGN-P0010
		Peripheral blood smear examination by Wright – Giemsa stain	Hematek stain machine or manual method as documented in WI-HAE-HGN-E0003
		May-Grunwald Giemsa Stain	Leica ST 4020 stain machine or manual method as documented in WI-HAE-HGN-P0005

Hospital Authority - Caritas Medical Centre, Department of Clinical Pathology
醫院管理局–明愛醫院病理科學部

Core Laboratory: 8A, Wai Shun Block, Caritas Medical Centre, 111 Wing Hong Street, Shamshuipo, Kowloon, Hong Kong
香港九龍深水埗永康街 111 號明愛醫院懷信樓 8A

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類**	**SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性**	**METHOD OR TECHNIQUE USED 方法或應用技術**
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology (cont'd)	**Haematology - Special (Normal office hours)**		
	EDTA bone marrow aspirate	Bone Marrow Examination : Marrow smear by May-Grunwald-Giemsa and Perl's Prussian Blue stain	Specimen preparation and staining as documented in WI-HAE-HGN-P0003 and WI-HAE-HGN-P0009 using Leica ST 4020 stain machine
	EDTA whole blood	Glucose-6-phosphate dehydrogenase (G6PD) screening by Fluorescence test	Method as documented in WI-HAE-HSP-PM002
	EDTA bone marrow aspirate	Peripheral blood smear by May-Grunwald-Giemsa	Specimen preparation and staining as documented in WI-HAE-HSP-PM001

Hospital Authority - Tsan Yuk Hospital, Prenatal Diagnostic Laboratory
醫院管理局，贊育醫院，產前診斷化驗室

ADDRESS : Room 2-10, Tsan Yuk Hospital, 30 Hospital Road, Sai Ying Pun, Hong Kong
地址 香港西營盤醫院道 30 號贊育醫院 2-10 室

ENQUIRY : Dr Anita KAN Sik-yau
查詢 簡適悠醫生

TELEPHONE : 2589 2414
電話

FAX : 2517 2373
傳真

E-MAIL : kansya@hku.hk
電郵

WEBSITE ADDRESS : www.obsgyn.hku.hk/prenatal_diagnosis
網址

CLIENTELE : Public and private hospitals and clinics
服務對象 公營及私營醫院和診所

Hospital Authority - Tsan Yuk Hospital, Prenatal Diagnostic Laboratory
醫院管理局，贊育醫院，產前診斷化驗室

ADDRESS
地址
: Room 2-10, Tsan Yuk Hospital, 30 Hospital Road, Sai Ying Pun, Hong Kong
香港西營盤醫院道 30 號贊育醫院 2-10 室

(i) Cytogenetics Laboratory, Room 2-10, Tsan Yuk Hospital
(ii) Down Syndrome Screening Laboratory, Room 3-21, Tsan Yuk Hospital
(iii) Molecular Cytogenetics and Genetics Laboratory, Room 3-14, Tsan Yuk Hospital

LABORATORY DIRECTOR
化驗所主管
: **Biomedical Scientist Director 醫務科學主管:**
Ms Winnie LAM Oi-man
林藹雯女士
MSc, BSc, Higher Dip in MLS, Reg Part I MLT

PATHOLOGIST IN CHARGE OF THE ACCREDITED DISCIPLINE
負責認可範疇的病理學專科醫生
: Nil

ACCREDITED TEST CATEGORY
認可測試類別
: **Medical Testing 醫務化驗**

Chemical Pathology
化學病理學
Medical Genetics (Cytogenomics and Molecular Genetics)
醫學遺傳學 (細胞遺傳學 及 分子遺傳學)

Hospital Authority - Tsan Yuk Hospital, Prenatal Diagnostic Laboratory
醫院管理局，贊育醫院，產前診斷化驗室
Cytogenetics Laboratory: Room 2-10, Tsan Yuk Hospital, 30 Hospital Road, Sai Ying Pun, Hong Kong
香港西營盤醫院道 30 號贊育醫院 2-10 室

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics	**Cytogenomics** Amniotic fluid, chorionic villi, cord blood, fetal blood, peripheral blood, placental tissue, product of gestation, skin biopsy	Culture and chromosome analysis by G-banding	Method as documented in CYTO-SOP-AF-SETUP; CYTO-SOP-AF; CYTO-SOP-CV-SETUP; CYTO-SOP-TIS; CYTO-SOP-CV; CYTO-SOP-BLD-SETUP; CYTO-SOP-BLD; CYTO-SOP-ANA; CYTO-SOP-BAN and CYTO-SOP-SKIN-SETUP
		Imaging workflow with MetaSystem software	MetaSystem software: Ikaros and Metafer Method as documented in CYTO-SOP-AF-SETUP; CYTO-SOP-AF; CYTO-SOP-CV-SETUP; CYTO-SOP-TIS; CYTO-SOP-CV; CYTO-SOP-BLD-SETUP; CYTO-SOP-BLD; CYTO-SOP-ANA; CYTO-SOP-BAN and CYTO-SOP-SKIN-SETUP TYH-SOP-EQP-META(Ikaros)

Hospital Authority - Tsan Yuk Hospital, Prenatal Diagnostic Laboratory
醫院管理局，贊育醫院，產前診斷化驗室
Down Syndrome Screening Laboratory: Room 3-21, Tsan Yuk Hospital, 30 Hospital Road, Sai Ying Pun, Hong Kong
香港西營盤醫院道 30 號贊育醫院 3-21 室

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology	**Special Chemistry** Serum	Down's Syndrome Risk Assessment (first trimester) based on - Human Chorionic Gonadotropin, free beta (fβ–HCG) by Immunoassay (fluorescent label) - Pregnancy-associated plasma protein A (PAPP-A) by Immunoassay (fluorescent label)	Software: Alpha version 8 PerkinElmer Delfia Xpress(fβ–HCG assay) PerkinElmer Delfia Xpress (PAPP assay)
		Down's Syndrome Risk Assessment (second trimester) based on - Alpha-fetoprotein (AFP) by Immunoassay (fluorescent label) - Human Chorionic Gonadotropin, free beta (fβ–HCG), by Immunoassay (fluorescent label) - Human unconjugated estriol (uE3) by Immunoassay (fluorescent label) - Human Inhibin A by Immunoassay (Chemiluminescent label)	Software: Alpha version 8 Perkin Elmer DelfiaXpress (AFP assay) Perkin Elmer DelfiaXpress (fβ–HCG assay) PerkinElmer Delfia Xpress (uE3 asssay) Beckman Coulter ACCESS 2 (Inhibin A assay)

Hospital Authority - Tsan Yuk Hospital, Prenatal Diagnostic Laboratory
醫院管理局，贊育醫院，產前診斷化驗室
Molecular Cytogenetics and Genetics Laboratory: Room 3-14, Tsan Yuk Hospital, 30 Hospital Road, Sai Ying Pun, Hong Kong
香港西營盤醫院道 30 號贊育醫院 3-14 室

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics	**Molecular Genetics** Amniotic fluid, chorionic villi, fetal blood, peripheral blood, placental tissue	Rapid aneuploidy detection by Quantitative Fluorescence Polymerase Chain Reaction (QF-PCR) (Target region: chromosomes 13, 18, 21, X & Y)	Method as documented in MOL-SOP-QFPCR-RAD
		DiGeorge microdeletion detection by F-PCR (Target region: chromosome 22q11.2)	Method as documented in MOL-SOP-FPCR-DG
		Y-chromosome microdeletion detection by F-PCR (Target region: Yq)	Method as documented in MOL-SOP-FPCR-MI
		Alpha thalassaemia deletions by 1. Multiplex gap – PCR / Multiplex fluorescent gap - PCR (Target region: alpha globin gene locus)	Method as documented in MOL-SOP-THALA-GPCR
		2. Fluorescent-PCR using small tandem repeats within (--SEA) deletion region (Target region: alpha globin gene locus)	Method as documented in MOL-SOP-THALA-SEA-FPCR
		Beta thalassaemia mutations by 1. Reverse Dot Blot (Target region: beta globin gene)	Method as documented in MOL-SOP-THALB-RDB
		2. Multiplex single base primer extension assay (Target region: beta globin gene)	Method as documented in MOL-SOPTHALB- SNP

Hospital Authority - Tsan Yuk Hospital, Prenatal Diagnostic Laboratory
醫院管理局，贊育醫院，產前診斷化驗室
Molecular Cytogenetics and Genetics Laboratory: Room 3-14, Tsan Yuk Hospital, 30 Hospital Road, Sai Ying Pun, Hong Kong
香港西營盤醫院道 30 號贊育醫院 3-14 室

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics	**Cytogenomics** Amniotic fluid, chorionic villi, fetal blood, genomic DNA, peripheral blood, placental tissue, skin biopsy, products of gestation, cord blood and buccal swab	Molecular karyotyping by single nucleotide polymorphism array (SNP array)	Affymetrix CytoScan 750k SNP array Software: Chromosome Analysis Suite Method as documented in MOL-SOP-CMA-AFFY-ANA(I) MOL-SOP-CMA-AFFY-ANA (II)

Hospital Authority - Kwong Wah Hospital, Department of Pathology
醫院管理局 - 廣華醫院病理部

ADDRESS : 11/F, New Building, Kwong Wah Hospital, 25 Waterloo Road, Kowloon, Hong Kong
地址 香港九龍窩打老道 25 號，廣華醫院新大樓十一樓

ENQUIRY : Ms Linda WONG Pik-wa
查詢 黃碧華女士

TELEPHONE : 3517 2102
電話

FAX : 2385 4514
傳真

E-MAIL : wpw606@ha.org.hk
電郵

CLIENTELE : Public and private hospitals and clinics
服務對象 公營及私營醫院和診所

Hospital Authority – Kwong Wah Hospital, Department of Pathology
醫院管理局 – 廣華醫院病理部

ADDRESS
地址
: 11/F, New Building, Kwong Wah Hospital, 25 Waterloo Road, Kowloon, Hong Kong
香港九龍窩打老道25號，廣華醫院新大樓十一樓
(i) Anatomical Pathology Laboratory, 11/F
(ii) Core & Chemical Pathology Laboratory, 11/F
(iii) Haematology Laboratory & Blood Bank, 11/F
(iv) Microbiology & Mycobacteriology Laboratory, 17/F

LABORATORY DIRECTOR
化驗所主管
: **Pathologist Director 病理學主管:**
Dr Cindy TSE Wing-sze
謝詠詩醫生
MBChB, PDipID(HK), FRCPA, FHKCPath, FHKAM (Pathology)

PATHOLOGIST IN CHARGE OF THE ACCREDITED DISCIPLINE
負責認可範疇的病理學專科醫生
: Anatomical Pathology 解剖病理學
Dr Alice CHAN Ngot-htain 陳玉清醫生 (Full-time 全職)
Clinical Microbiology and Infection 臨床微生物學及傳染病
Dr Cindy TSE Wing-sze 謝詠詩醫生 (Full-time 全職)
Haematology 血液學
Dr WONG Hung-fan 黃鴻勳醫生 (Full-time 全職)

ACCREDITED TEST CATEGORY
認可測試類別
: **Medical Testing**
醫務化驗

Anatomical Pathology	解剖病理學
Chemical Pathology	化學病理學
Clinical Microbiology and Infection	臨床微生物學及傳染病
Haematology	血液學
Immunology	免疫學
Medical Genetics (Molecular Genetics)	醫學遺傳學 (分子遺傳學)

Hospital Authority – Kwong Wah Hospital, Department of Pathology
醫院管理局 – 廣華醫院病理部
Anatomical Pathology Laboratory: 11/F, New Building, Kwong Wah Hospital, 25 Waterloo Road, Kln, H.K.
香港九龍窩打老道 25 號，廣華醫院新大樓十一樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology	**Cytopathology**		
	Fine needle aspiration	Fine needle aspiration cytology examination by Papanicolaou and May-Grunwald-Giemsa staining	Specimen collection, preparation, routine staining and screening Papanicolaou stain May-Grunwald-Giemsa stain
	Gynaecological specimens	Gynaecological cytology examination by Papanicolaou staining	Specimen preparation, routine staining and screening: ThinPrep + Papanicolaou stain Conventional smear + Papanicolaou stain
	Non-gynaecological specimens	Non-gynaecological cytology examination by Papanicolaou, May-Grunwald-Giemsa and special staining	Specimens preparation, routine staining and screening: Papanicolaou stain May-Grunwald-Giemsa stain Special staining (manual method) Lipids by Oil Red O stain Haemosiderin pigment by Perls' Prussian blue stain Pneumocystis and fungi by Grocott stain Acid fast bacilli by Ziehl-Neelsen stain Metachromatic granules by Toluidine blue stain Mucin by Mucicarmine stain
	Histopathology		
	Surgical pathology	Histology examination by H&E and special staining	Specimen preparation and Haematoxylin and Eosin staining by manual and automatic staining method Special staining (manual method): Mucins contain hyaluronic acid by Alcian Blue with and without Hyaluronidase stain Acid and neutral mucins by Alcian Blue-PAS stain Haematopoietic cells by Giemsa stain Protozoa and some other micro-organisms by Giemsa (Modified) stain Reticulin by Gordon & Sweet's stain Bacteria by Gram stain Fungi by Grocott's Methenamine Silver stain Amyloid by Highman's Congo Red stain Lipofuscin pigments by Long Ziehl-Neelsen stain Myelin and Nissl granules by Luxol Fast Blue

Hospital Authority – Kwong Wah Hospital, Department of Pathology
醫院管理局 – 廣華醫院病理部
Anatomical Pathology Laboratory: 11/F, New Building, Kwong Wah Hospital, 25 Waterloo Road, Kln, H.K.
香港九龍窩打老道 25 號，廣華醫院新大樓十一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology (cont'd)	**Histopathology** (cont'd) Surgical pathology (cont'd)	Histology examination by H&E and special staining (cont'd)	Special staining (manual method) (cont'd): Fibrin by Martius yellow – Scarlet red – soluble Blue (MSB) stain Collagen and muscle by Masson Trichrome stain Lipids by Oil red O stain Hepatitis B antigen, elastic fibres by Orcein (Shikata's) stain Glycogen by Periodic Acid-Schiff stain with or without digestion Basement membrane by Periodic Acid-Silver Methenamine (PASM) stain Ferric ion by Perls' Prussian Blue stain Melanin by Schmorl stain with/without bleaching Mucin by Southgate's Mucicarmine stain Mast cell granules by Toluidine Blue stain Collagen by Van Gieson stain Elastic fibres by Verhoeff's stain Calcium salts by Von Kossa stain Leprosy bacilli by Wade-Fite stain Tubercle bacilli by Ziehl-Neelsen stain
	Muscle biopsies	Histology examination and enzyme histochemistry by Special staining	Type I and Type II muscle fibres by Adenosine Triphosphatase (ATPase) stain at pH4.2, 4.6 and 9.4 Mitochondria by Gomori's Trichrome stain /Nicotinamide Adenine Dinucleotide – Tetrazolium Reductase stain Diagnosis of McArdle disease by Myophosphorylase Lipids by Oil Red O stain Mitochondria enzyme by Succinate Dehydrogenase (SDH-NBT) stain
	Intra-operative frozen section for fresh tissue specimens	Histology examination by H&E and Methylene blue staining	Specimen preparation and routine staining: Haematoxylin and Eosin stain (manual) Methylene blue (manual)

Hospital Authority – Kwong Wah Hospital, Department of Pathology
醫院管理局 – 廣華醫院病理部
Anatomical Pathology Laboratory: 11/F, New Building, Kwong Wah Hospital, 25 Waterloo Road, Kln, H.K.
香港九龍窩打老道 25 號，廣華醫院新大樓十一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology (cont'd)	**Immunohistochemistry** Renal and skin biopsies	Immunofluorescence examination by Manual method	Specimen preparation and staining: Immunoglobulins deposits by IgA / IgM / IgG / Complement 3 / Fibrinogen / C1q by Direct Immunofluorescence Method
	Histological and cytological specimens	Immunohistochemical examination for various antigen markers by Manual method	Slide preparation and staining: Detection system: Avidin Biotin Complex Antigen retrieval: Pressure-cooking or enzymatic digestion
		Automated method	Slide preparation and staining: Detection system: Ventana BenchMark ULTRA Antigen retrieval: On-board retrieval by immunostainers
		In-situ Hybridisation examination for various antigen markers by Automated method	Slide preparation and staining by immunostainers Ventana BenchMark ULTRA

Hospital Authority – Kwong Wah Hospital, Department of Pathology
醫院管理局 – 廣華醫院病理部
Anatomical Pathology Laboratory: 11/F, New Building, Kwong Wah Hospital, 25 Waterloo Road, Kln, H.K.
香港九龍窩打老道 25 號，廣華醫院新大樓十一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics	**Molecular Genetics (anatomical pathology)** Gynaecological specimens	Human Papilloma Virus (HPV) DNA by Real-time polymerase chain reaction, qualitative (Target region: L1 gene)	Nucleic acid extraction, amplification and detection by Roche cobas 4800 using cobas 4800 HPV AMP/DET Kit Method as documented in WI-APL-MOL-CBHPV

Hospital Authority – Kwong Wah Hospital, Department of Pathology
醫院管理局 – 廣華醫院病理部
Core & Chemical Pathology Laboratory: 11/F, New Building, Kwong Wah Hospital, 25 Waterloo Road, Kln, H.K.
香港九龍窩打老道 25 號，廣華醫院新大樓十一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology	**Blood gases and Co-oximetry**		
	Heparinized whole blood	Blood Gas include:	
		pCO_2 by	
		Potentiometry (pCO_2-Sensing Electrode)	Siemens RapidLab 1265 system
		pH by	
		Potentiometry (Ion Selective Electrode)	Siemens RapidLab 1265 system
		pO_2 by	
		Polarography (Oxygen-Sensing Amperometric Electrode)	Siemens RapidLab 1265 system
		Base Excess by	
		Auto Calculation	Siemens RapidLab 1265 system
		Bicarbonate by	
		Auto Calculation	Siemens RapidLab 1265 system
		O_2 Saturation by	
		Auto Calculation	Siemens RapidLab 1265 system
		Carboxyhaemoglobin by	
		Co-oximetry	Siemens RapidLab 1265 system
		Ionized Calcium by	
		Potentiometry (Ion Selective Electrode)	Siemens RapidLab 1265 system
		Methaemoglobin by	
		Co-oximetry	Siemens RapidLab 1265 system

Hospital Authority – Kwong Wah Hospital, Department of Pathology
醫院管理局 – 廣華醫院病理部
Core & Chemical Pathology Laboratory: 11/F, New Building, Kwong Wah Hospital, 25 Waterloo Road, Kln, H.K.
香港九龍窩打老道 25 號，廣華醫院新大樓十一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology (cont'd)	**General Chemistry** (cont'd)		
	Li heparin plasma, serum	Alanine Aminotransferase (ALT) by Spectrophotometry	Roche cobas 8000 system, ALTPM assay
	Li heparin plasma, serum, body fluid	Albumin by Spectrophotometry	Roche cobas 8000 system, ALBP assay
	Li heparin plasma, serum	Alkaline Phosphatase (ALP) by Spectrophotometry	Roche cobas 8000 system, ALP2 assay
	EDTA plasma	Ammonia by Spectrophotometry	Roche cobas 8000 system, NH3L2 assay
	Li heparin plasma, serum, body fluid	Amylase by Spectrophotometry	Roche cobas 8000 system, AMYL2 assay
	Li heparin plasma, serum	Aspartate Aminotransferase (AST) by Spectrophotometry	Roche cobas 8000 system, ASTPM assay
		Bilirubin, Direct by Spectrophotometry	Roche cobas 8000 system, BILD2 assay
		Bilirubin, Total by Spectrophotometry	Roche cobas 8000 system, BILT3 assay
	Plasma	Bilirubin, neonatal by Spectrophotometry	Leica Unistat Bilirubinometer System Method as documented in WI-CCP-TSM-ENBIL
	Li heparin plasma, serum	Calcium by Spectrophotometry	Roche cobas 8000 system, CA2 assay
	Li heparin plasma, serum, body fluid, CSF	Chloride by Indirect Ion Selective Electrode	Roche cobas 8000 system, ISE CL assay
	Serum	Cholinesterase by Spectrophotometry	Roche cobas 8000 system, CHE2 assay
	Li heparin plasma, serum, body fluid	Cholesterol, Total by Spectrophotometry	Roche cobas 8000 system, CHOL2 assay
	Li heparin plasma, serum	Cholesterol High Density Lipoprotein (HDL-C) by Spectrophotometry	Roche cobas 8000 system, HDLC4 assay

Hospital Authority – Kwong Wah Hospital, Department of Pathology
醫院管理局 – 廣華醫院病理部
Core & Chemical Pathology Laboratory: 11/F, New Building, Kwong Wah Hospital, 25 Waterloo Road, Kln, H.K.
香港九龍窩打老道 25 號，廣華醫院新大樓十一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology (cont'd)	**General Chemistry** (cont'd)		
	Li heparin plasma, serum (cont'd)	Creatine Kinase (CK) by Spectrophotometry	Roche cobas 8000 system, CK2 assay
	Li heparin plasma, serum, body fluid	Creatinine by Spectrophotometry	Roche cobas 8000 system, CREJ2 assay
	Li heparin plasma, serum	Gamma Glutamyl Transpeptidase (GGT) by Spectrophotometry	Roche cobas 8000 system, GGT2 assay
	Fluoride plasma, body fluid, CSF	Glucose by Spectrophotometry	Roche cobas 8000 system, GLUC3 assay
	Fluoride plasma, CSF	Lactate by Spectrophotometry	Roche cobas 8000 system, LACT2 assay
	Li heparin plasma, serum, body fluid, CSF	Lactate dehydrogenase (LDH) by Spectrophotometry	Roche cobas 8000 system, LDHI2 assay
	Li heparin plasma, serum	Magnesium by Spectrophotometry	Roche cobas 8000 system, MG2 assay
		Phosphate by Spectrophotometry	Roche cobas 8000 system, PHOS2 assay
	Li heparin plasma, serum, body fluid	Potassium by Indirect Ion Selective Electrode	Roche cobas 8000 system, ISE K assay
		Protein, Total by Spectrophotometry	Roche cobas 8000 system, TP2 assay
	CSF	Protein, Total by Turbidimetry	Roche cobas 8000 system, TPUC3 assay
	Li heparin plasma, serum body fluid	Sodium by Indirect Ion Selective Electrode	Roche cobas 8000 system, ISE NA assay
	EDTA plasma	Troponin T by Spectrophotometry	Roche cobas 8000 system, Troponin T hs assay
	Li heparin plasma, serum, body fluid	Triglycerides by Spectrophotometry	Roche cobas 8000 system, TRIGL assay

Hospital Authority – Kwong Wah Hospital, Department of Pathology
醫院管理局 – 廣華醫院病理部
Core & Chemical Pathology Laboratory: 11/F, New Building, Kwong Wah Hospital, 25 Waterloo Road, Kln, H.K.
香港九龍窩打老道 25 號，廣華醫院新大樓十一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology (cont'd)	**General Chemistry** (cont'd) Li heparin plasma, serum	Urate by Spectrophotometry	Roche cobas 8000 system, UA2 assay
	Li heparin plasma, serum, body fluid	Urea by Spectrophotometry	Roche cobas 8000 system, UREAL assay

Hospital Authority – Kwong Wah Hospital, Department of Pathology
醫院管理局 – 廣華醫院病理部
Core & Chemical Pathology Laboratory: 11/F, New Building, Kwong Wah Hospital, 25 Waterloo Road, Kln, H.K.
香港九龍窩打老道 25 號，廣華醫院新大樓十一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology (cont'd)	**General Chemistry** (cont'd)		
	Urine	Amylase by Spectrophotometry	Roche cobas 8000 system, AMYL2 assay
		Calcium by Spectrophotometry	Roche cobas 8000 system, CA2 assay
		Chloride by Indirect Ion Selective Electrode	Roche cobas 8000 system, ISE CL assay
		Creatinine by Spectrophotometry	Roche cobas 8000 system, CREJ2 assay
	Serum	Iron by Spectrophotometry	Roche cobas 8000 system, IRON2 assay
		Iron Binding Capacity, Total (TIBC) by Calculation	Roche cobas 8000 system, UIBC assay
	Urine	Magnesium by Spectrophotometry	Roche cobas 8000 system, MG2U assay
	Serum, urine	Osmolality by Freezing Point Depression	Arkray OM6060 System Method as documented in WI-CCP-TSM-DOSM and WI-CCP-TSM-DUOSM
	Urine	Phosphate by Spectrophotometry	Roche cobas 8000 system, PHOS2 assay
		Protein, Total by Turbidimetry	Roche cobas 8000 system, TPU3 assay
		Potassium by Indirect Ion Selective Electrode	Roche cobas 8000 system, ISE K assay

Hospital Authority – Kwong Wah Hospital, Department of Pathology
醫院管理局 – 廣華醫院病理部
Core & Chemical Pathology Laboratory: 11/F, New Building, Kwong Wah Hospital, 25 Waterloo Road, Kln, H.K.
香港九龍窩打老道 25 號，廣華醫院新大樓十一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology (cont'd)	**General Chemistry** (cont'd) Urine (cont'd)	Sodium by Indirect Ion Selective Electrode	Roche cobas 8000 system, ISE NA assay
		Urate by Spectrophotometry	Roche cobas 8000 system, UA2 assay
		Urea by Spectrophotometry	Roche cobas 8000 system, UREAL assay

Hospital Authority – Kwong Wah Hospital, Department of Pathology
醫院管理局 – 廣華醫院病理部
Core & Chemical Pathology Laboratory: 11/F, New Building, Kwong Wah Hospital, 25 Waterloo Road, Kln, H.K.
香港九龍窩打老道 25 號，廣華醫院新大樓十一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology (cont'd)	**Hormones**		
	Serum	Human chorionic gonadotrophin (β-HCG), Total by	
		Immunoassay (Electrochemiluminescent Label)	Roche cobas 8000 system, HCG+Beta assay
		Prolactin by	
		Immunoassay (Electrochemiluminescent Label)	Roche cobas 8000 system, Prolactin II assay
		Thyroid stimulating hormone (TSH) by	
		Immunoassay (Chemiluminescent Label)	Abbott Alinity i System, TSH assay
		Thyroxine, Free (FT4) by	
		Immunoassay (Chemiluminescent Label)	Abbott Alinity i System, FT4 assay
		Tri-iodothyronine, Free (FT3) by	
		Immunoassay (Chemiluminescent Label)	Abbott Alinity i System, FT3 assay
	Protein, quantitative analysis		
	Serum	C-Reactive Protein (CRP) by	
		Immunoturbidimetry	Abbott Alinity c System, CRP assay
		Ceruloplasmin by	
		Immunoturbidimetry	Roche cobas 8000 system, CERU assay
		Ferritin by	
		Immunoassay (Electrochemiluminescent Label)	Roche cobas 8000 system, Ferritin assay
	Special Chemistry		
	Stool	Fecal Occult Blood by	
		Immunochemical method	Automated testing by HM-JACK arc analyser Method as documented in WI-CCP-TSM-IFOBT

Hospital Authority – Kwong Wah Hospital, Department of Pathology
醫院管理局 – 廣華醫院病理部
Core & Chemical Pathology Laboratory: 11/F, New Building, Kwong Wah Hospital, 25 Waterloo Road, Kln, H.K.
香港九龍窩打老道 25 號，廣華醫院新大樓十一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology (cont'd)	**Therapeutic Drug Monitoring**		
	Serum	Carbamazepine by Immunoassay (Enzyme based label)	Abbott Alinity c System, Carbamazepine assay
		Digoxin by Immunoassay (Enzyme based label)	Abbott Alinity c System, Digoxin assay
		Phenobarbital by Immunoassay (Enzyme based label)	Abbott Alinity c System, Phenobarbital assay
		Phenytoin by Immunoassay (Enzyme based label)	Abbott Alinity c System, Phenytoin assay
		Theophylline by Immunoassay (Enzyme based label)	Abbott Alinity c System, Theophylline assay
		Valproic Acid by Immunoassay (Enzyme based label)	Abbott Alinity c System, Valproic Acid assay
	Tumour Markers		
	Serum	Alpha-fetoprotein (AFP) by Immunoassay (Chemiluminescent Label)	Abbott Alinity i System, AFP assay
		CA125 by Immunoassay (Chemiluminescent Label)	Abbott Alinity i System, CA 125 II assay
		Carcinoembryonic antigen (CEA) by Immunoassay (Chemiluminescent Label)	Abbott Alinity i System, Carcinoembryonic Antigen assay
		Prostate specific antigen (PSA), Total by Immunoassay (Chemiluminescent Label)	Abbott Alinity i System, Prostate Specific Antigen assay

Hospital Authority – Kwong Wah Hospital, Department of Pathology
醫院管理局 – 廣華醫院病理部
Core & Chemical Pathology Laboratory: 11/F, New Building, Kwong Wah Hospital, 25 Waterloo Road, Kln, H.K.
香港九龍窩打老道 25 號，廣華醫院新大樓十一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology (cont'd)	**Toxicology** Serum	Acetaminophen (Paracetamol) by Homogeneous enzyme immunoassay	Roche cobas 8000 system, ACET2 assay
		Salicylate by Spectrophotometry	Roche cobas 8000 system, SALI assay
		Ethanol by Spectrophotometry	Roche cobas 8000 system, ETOH2 assay

Hospital Authority – Kwong Wah Hospital, Department of Pathology
醫院管理局 – 廣華醫院病理部
Haematology Laboratory & Blood Bank: 11/F, New Building, Kwong Wah Hospital, 25 Waterloo Road, Kln, H.K.
香港九龍窩打老道 25 號，廣華醫院新大樓十一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology	**Blood Bank – General**		
	EDTA blood	ABO and Rh (D) typing by	
		- Red cell agglutination, manual	Method as documented in WI-BBK-SOP-T0017 using Bio-Rad IH-1000 system and Neo IRIS system
		- Red cell agglutination, automated	
		Antibody screening by	
		- Column Agglutination Technology, manual	Method as documented in WI-BBK-SOP-T0018 using Bio-Rad gel card and Bio-Rad IH-1000 system
		- Column Agglutination Technology, automated	
		- Saline-Indirect antiglobulin test	Method as documented in WI-BBK-SOP-T0018
		- Solid Phase Red Cell Adherence (SPRCA), automated	Neo IRIS system
		Red cell phenotyping by	
		- Direct agglutination	Method as documented in WI-BBK-SOP-T0023
		- Indirect antiglobulin test	
		Crossmatch by	
		- Computer crossmatch	Method as documented in WI-BBK-SOP-T0020
		- Immediate spin	Method as documented in WI-BBK-SOP-T0020
		- Column Agglutination Technology, manual	Method as documented in WI-BBK-SOP-T0020 using Bio-Rad gel card and Bio-Rad IH-1000 system
		- Column Agglutination Technology, automated	
		- Saline-Indirect antiglobulin test	Method as documented in WI-BBK-SOP-T0020

Hospital Authority – Kwong Wah Hospital, Department of Pathology
醫院管理局 – 廣華醫院病理部
Haematology Laboratory & Blood Bank: 11/F, New Building, Kwong Wah Hospital, 25 Waterloo Road, Kln, H.K.
香港九龍窩打老道 25 號，廣華醫院新大樓十一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology (cont'd)	**Coagulation** Citrate blood	Activated partial thromboplastin time (APTT) by manual method	Method as documented in WI-HAE-COA-APMAN
		Prothrombin Time (PT) by manual method	Method as documented in WI-HAE-COA-PTMAN
		D-Dimer by Immunoassay (Enzyme-based Label)	Mini-Vidas Vidas D-Dimer Exclusion Kit
		Coagulation studies, automated including: - Prothrombin Time (PT) - Activated partial thromboplastin time (APTT) - Thrombin Time (TT) - Fibrinogen - Factor VIII assay - Factor IX assay	Sysmex CS2500

Hospital Authority – Kwong Wah Hospital, Department of Pathology
醫院管理局 – 廣華醫院病理部
Haematology Laboratory & Blood Bank: 11/F, New Building, Kwong Wah Hospital, 25 Waterloo Road, Kln, H.K.
香港九龍窩打老道 25 號，廣華醫院新大樓十一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology (cont'd)	**Haematology – General** EDTA whole blood	Complete blood count including - Haemoglobin - Haematocrit - Leucocyte count (WBC count) - Mean corpuscular volume (MCV) - Mean corpuscular haemoglobin concentration (MCHC) - Mean corpuscular haemoglobin (MCH) - Platelet count - Red cell count - Red cell distribution width (RDW) - Mean Platelet Volume (MPV)	Sysmex XN-2000
		Complete blood count including - Haemoglobin - Haematocrit - Leucocyte count (WBC count) - Mean corpuscular volume (MCV) - Mean corpuscular haemoglobin concentration (MCHC) - Mean corpuscular haemoglobin (MCH) - Platelet count - Red cell count - Red cell distribution width (RDW) - Mean Platelet Volume (MPV)	Beckman Coulter DxH800
		Leucocyte differential count by - automated method	Sysmex XN-2000 Beckman Coulter DxH800
		- manual method	Method as documented in WI-HAE-GEN-PBSEX
		Malaria parasite examination by Thick and thin films	Smear preparation and Giemsa staining (pH7.2) Method as documented in WI-HAE-MIS-MPARA
		Peripheral blood smear examination by - May-Grunwald-Giemsa Stain	Method as documented in WI-HAE- GEN-MAYGG
		- Wright-Giemsa stain	Siemens Hematek 3000 Method as documented in WI-HAE-GEN-H3000
		Reticulocyte Count by Automated method	Sysmex XN-2000
		Reticulocyte Count (Manual) by New Methylene Blue Stain	Method as documented in WI-HAE-GEN-RETIM

Hospital Authority – Kwong Wah Hospital, Department of Pathology
醫院管理局 – 廣華醫院病理部
Haematology Laboratory & Blood Bank: 11/F, New Building, Kwong Wah Hospital, 25 Waterloo Road, Kln, H.K.
香港九龍窩打老道 25 號，廣華醫院新大樓十一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology (cont'd)	**Blood Bank – Antenatal screen**		
	Clotted blood	ABO and Rh(D) typing by Red cell agglutination	Method as documented in WI-HAE-MIS-ABORH
		Weak D Testing by Indirect Antiglobulin Test	Method as documented in WI-HAE-MIS-ABORH
	EDTA blood	ABO and Rh(D) typing by Red cell agglutination	
		- automated	Bio-Rad IH-1000 system Neo IRIS system
		- manual	Method as documented in WI-HAE-MIS-ABORH
	Haematology – Special		
	EDTA whole blood	Glucose-6-phosphate dehydrogenase (G6PD) screening by Fluorescence test	Trinity (Biotech)
		Haemoglobin A1c (HbA1c) by Turbidimetric Inhibition Immunoassay	Roche cobas c513
	Serum	Vitamin B12 assay by Immunoassay (Chemiluminescent Label)	Abbott Alinity i System Vitamin B12 assay
		Folate assay by Immunoassay (Chemiluminescent Label)	Abbott Alinity i System Folate assay

Hospital Authority – Kwong Wah Hospital, Department of Pathology
醫院管理局 – 廣華醫院病理部
Haematology Laboratory & Blood Bank: 11/F, New Building, Kwong Wah Hospital, 25 Waterloo Road, Kln, H.K.
香港九龍窩打老道 25 號，廣華醫院新大樓十一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Immunology	**Autoantibodies**		
	Serum	Anti-nuclear antibody by Indirect Immunofluorescence Test	Bio-Rad Kallestad™ Hep 2 cell ANA kit
		Anti-dsDNA by Immunoassay (Enzyme based label)	Bio-Rad PhD 1x System Euroimmun anti-dsDNA-NcX ELISA (IgG) test
		Anti-DFS70 ELISA (IgG) assay	Bio-Rad PhD 1x system Method as documented in WI-HAE-SER-ANDFS Euroimmun anti-DFS70 ELISA(IgG) assay
		Rheumatoid Factor by Immunoturbidimetry	Abbott Alinity c System RF assay
		Thyroid Autoantibodies by Immunoassay (Chemiluminescent Label)	Abbott Alinity i System Anti-TG assay & Anti-TPO assay
	Immunohaematology		
	EDTA Blood	Direct antiglobulin test (DAT) by - Conventional method - Column Agglutination Technology	Method as documented in WI-BBK-SOP-T0019 Method as documented in WI-BBK-SOP-T0019 using Bio-Rad gel card
	Protein, quantitative analysis		
	Serum	C3 Complement (C3) by Immunoturbidimetry	Abbott Alinity c System Complement C3 assay
		C4 Complement (C4) by Immunoturbidimetry	Abbott Alinity c System Complement C4 assay
		Haptoglobin by Immunoturbidimetry	Abbott Alinity c System Haptoglobin assay
		Immunoglobulin A (IgA) by Immunoturbidimetry	Abbott Alinity c System Immunoglobulin A assay
		Immunoglobulin G (IgG) by Immunoturbidimetry	Abbott Alinity c System Immunoglobulin G assay

Hospital Authority – Kwong Wah Hospital, Department of Pathology
醫院管理局 – 廣華醫院病理部
Haematology Laboratory & Blood Bank: 11/F, New Building, Kwong Wah Hospital, 25 Waterloo Road, Kln, H.K.
香港九龍窩打老道 25 號，廣華醫院新大樓十一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Immunology (cont'd)	**Protein, quantitative analysis** (cont'd) Serum (cont'd)	Immunoglobulin M (IgM) by Immunoturbidimetry	Abbott Alinity c System Immunoglobulin M assay

Hospital Authority – Kwong Wah Hospital, Department of Pathology
醫院管理局 – 廣華醫院病理部
Microbiology & Mycobacteriology Laboratory: 17/F, New Building, Kwong Wah Hospital, 25 Waterloo Road, Kln, H.K.
香港九龍窩打老道 25 號，廣華醫院新大樓十七樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and infection	**Bacteriology - General**		
	Blood Culture	Culture and antimicrobial susceptibility tests for pathogens by	
		Aerobic and anaerobic broth culture	BACTEC FX Method as documented in WI-MIC-BAC-BLOOD
	CSF	Microscopy for	Method as documented in WI-MIC-BAC-CSFOP
		- Cell count by counting chambers	
		- Microorganism by gram stain	
		- Encapsulated yeast by India ink stain	
		- Cell count by automated method	Sysmex XN-450
		Culture and antimicrobial susceptibility tests for pathogens by	
		Aerobic and CO_2 culture	Method as documented in WI-MIC-BAC-CSFOP
	Enteric samples (including stool and rectal swabs)	Culture and antimicrobial susceptibility tests for enteric pathogens by	
		Aerobic, anaerobic and microaerophilic culture	Method as documented in WI-MIC-BAC-FECAL
	Genital samples (including HVS, endocervical swabs, urethral swabs, etc.)	Microscopy for clue cell morphology and microorganisms by	
		Conventional method for *Trichomonas/ Candida* by Gram stain	Method as documented in WI-MIC-BAC-GENIT
		Culture and antimicrobial susceptibility tests for pathogens by	
		Aerobic and CO_2 culture	Method as documented in WI-MIC-BAC-GENIT
	Miscellaneous samples (including swab, pus, tissue, etc.)	Microscopy for microorganism by	
		Gram stain	Method as documented in WI-MIC-BAC-MISCU
		Culture and antimicrobial susceptibility tests for pathogens by	
		Aerobic, CO_2 and anaerobic culture	Method as documented in WI-MIC-BAC-MISCU
	Body fluid	Cell count by	
		- Counting chamber	Method as documented in WI-MIC-BAC-BODYF
		- Automated method	Sysmex XN-450
		Microscopy for microorganism by	
		Gram stain	Method as documented in WI-MIC-BAC-BODYF

Hospital Authority – Kwong Wah Hospital, Department of Pathology
醫院管理局 – 廣華醫院病理部
Microbiology & Mycobacteriology Laboratory: 17/F, New Building, Kwong Wah Hospital, 25 Waterloo Road, Kln, H.K.
香港九龍窩打老道 25 號，廣華醫院新大樓十七樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and infection (cont'd)	**Bacteriology – General** (cont'd)		
	Body fluid (cont'd)	Microscopy for crystal (joint fluid only) by Conventional method	Method as documented in WI-MIC-BAC-BODYF
		Culture and antimicrobial susceptibility tests for pathogens by Aerobic, CO_2 and anaerobic culture	Method as documented in WI-MIC-BAC-BODYF
	Lower respiratory tract samples (including sputum, bronchial aspirate, tracheal aspirate, etc.)	Microscopy for cell morphology and microorganism by Gram stain	Method as documented in WI-MIC-BAC-LORTI
		Culture and antimicrobial susceptibility tests for pathogens by Aerobic and CO_2 culture	Method as documented in WI-MIC-BAC-LORTI
	Bronchioalveolar lavage (BAL) and protected bronchial brushings	Microscopy for cell morphology and microorganism by Gram stain	Method as documented in WI-MIC-BAC-LORTI
		Culture and antimicrobial susceptibility tests for pathogens by Quantitative method	Method as documented in WI-MIC-BAC-LORTI
	Upper respiratory tract samples (including throat swab, nasal swab, mouth swab, etc.)	Culture and antimicrobial susceptibility tests for pathogens by Aerobic and CO_2 culture	Method as documented in WI-MIC-BAC-UPRTI
	Urine	Culture and antimicrobial susceptibility tests for pathogens by Standard Loop Method	Method as documented in WI-MIC-BAC-URINE using Urine ChromID (CPS Elite) agar
	Clinical isolates	Identification of clinical isolates by MALDI-TOF Mass Spectrometry	MicroFlex LT System, Bruker Daltonics Method as documented in WI-MIC-BAC-MALDI
		Antimicrobial susceptibility test for pathogens by Automated reading and interpretation system	BIOMIC Microbiology System

Hospital Authority – Kwong Wah Hospital, Department of Pathology
醫院管理局 – 廣華醫院病理部
Microbiology & Mycobacteriology Laboratory: 17/F, New Building, Kwong Wah Hospital, 25 Waterloo Road, Kln, H.K.
香港九龍窩打老道 25 號，廣華醫院新大樓十七樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Bacteriology - Serology**		
	Serum	Syphilis TP Assay by Immunoassay (Chemiluminescent Label)	Abbott Alinity i System Syphilis TP Reagent assay
		Streptolysin O antibody by Latex agglutination test	Biokit Rheumajet ASO Kit
		Heterophile antibodies of infectious Mononucleosis by Monospot Test	Monospot Latex (Meridian)
	Urine	Antigen detection *Legionella pneumophila* serogroup I antigen by Immunochromatographic assay	Method as documented in WI-MIC-BAC-ULEGI
	Virology - Serology		
	Serum	Hepatitis A virus antibody (IgM) by Immunoassay (Chemiluminescent Label)	Abbott Alinity i System HAVAb IgM Reagent assay
		Hepatitis A virus antibody (IgG) by Immunoassay (Chemiluminescent Label)	Abbott Alinity i System HAVAb IgG Reagent assay
		Hepatitis B surface antibody, Semi-Quantitative by Immunoassay (Chemiluminescent Label)	Abbott Alinity i System Anti-HBs Reagent assay
		Hepatitis B surface antigen by Immunoassay (Chemiluminescent Label)	Abbott Alinity i System HBsAg Qualitative II Reagent assay HBsAg Qualitative II Confirmatory Reagent assay

Hospital Authority – Kwong Wah Hospital, Department of Pathology
醫院管理局 – 廣華醫院病理部
Microbiology & Mycobacteriology Laboratory: 17/F, New Building, Kwong Wah Hospital, 25 Waterloo Road, Kln, H.K.
香港九龍窩打老道 25 號，廣華醫院新大樓十七樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Virology – Serology** (cont'd) Serum (cont'd)	Human immunodeficiency virus I & II antibody and p24 antigen by Immunoassay (Chemiluminescent Label)	Abbott Alinity i System HIV Ag/Ab Combo Reagent assay
		Rubella IgG Antibody by Immunoassay (Chemiluminescent Label)	Abbott Alinity i System Rubella IgG Reagent assay

Hospital Authority – Kwong Wah Hospital, Department of Pathology
醫院管理局 – 廣華醫院病理部
Microbiology & Mycobacteriology Laboratory: 17/F, New Building, Kwong Wah Hospital, 25 Waterloo Road, Kln, H.K.
香港九龍窩打老道 25 號，廣華醫院新大樓十七樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and infection (cont'd)	**Mycology – Culture**		
	All samples	Culture for fungi by	
		Conventional method	Method as documented in WI-MIC-BAC-MYCOL
	Nasal, axilla and groin swabs	Culture for fungi by	
		Candida auris culture	Chrom agar culture Method as documented in WI-MIC-BAC-CAURS
	Mycology – Microscopy		
	Dermatological samples (including tissue, skin, hair and nail)	Microscopy for fungal filaments and yeasts by	
		KOH preparation	Method as documented in WI-MIC-BAC-MYCOL
	Respiratory and body fluids	Microscopy for fungal filaments and yeasts by	
		Gram stain	Method as documented in WI-MIC-BAC-MYCOL
	Parasitology – Microscopy and staining		
	Stool	Microscopy for enteric parasites by	
		Conventional method	Method as documented in WI-MIC-BAC-PARAS
		Microscopy for amoeba by	
		Direct smear and concentration method	Method as documented in WI-MIC-BAC-PARAS
		Microscopy for Cyptosporidium, Isospora and Cyclospora oocyst by	
		Conventional method	Method as documented in WI-MIC-BAC-PARAS
	Miscellaneous tests		
	Urine	Pregnancy test for human chorionic gonadotrophin (hCG) by	
		Immunochromatographic assay	Method as documented in WI-MIC-BAC-PREGT
	Stool	Microscopy for	
		Fat globules	Method as documented in WI-MIC-BAC-FECAL

Hospital Authority – Kwong Wah Hospital, Department of Pathology
醫院管理局 – 廣華醫院病理部
Microbiology & Mycobacteriology Laboratory: 17/F, New Building, Kwong Wah Hospital, 25 Waterloo Road, Kln, H.K.
香港九龍窩打老道 25 號，廣華醫院新大樓十七樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and infection (cont'd)	**Urinalysis and/or urine microscopy** Urine	Urine formed elements by Microscopic examination with fixed volume in microtitre plate	Method as documented in WI-MIC-BAC-URIRM
		Urine chemical test by automated method - Glucose - Protein	77 Electronika UriSed 3 PRO & LabUMat2
		Urine microscopy by Automated imaging and evaluation method	77 Electronika UriSed 3 PRO & LabUMat2

Hospital Authority – Kwong Wah Hospital, Department of Pathology
醫院管理局 – 廣華醫院病理部
Microbiology & Mycobacteriology Laboratory: 17/F, New Building, Kwong Wah Hospital, 25 Waterloo Road, Kln, H.K.
香港九龍窩打老道 25 號，廣華醫院新大樓十七樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology	**Microscopy – Miscellaneous** Semen	Microcopy for count, morphology and motility by Conventional method	Method as documented in WI-MIC-BAC-SEMEN

Hospital Authority – Kwong Wah Hospital, Department of Pathology
醫院管理局 – 廣華醫院病理部
Microbiology & Mycobacteriology Laboratory: 17/F, New Building, Kwong Wah Hospital, 25 Waterloo Road, Kln, H.K.
香港九龍窩打老道 25 號，廣華醫院新大樓十七樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection	**Mycobacteriology – Culture and Detection**		
	CSF, Respiratory and miscellaneous samples	Culture for acid-fast bacilli (AFB) by	
		- Conventional method (LJ)	Method as documented in WI-MIC-MYC-SPECI
		- Rapid culture method, other than blood culture	Method as documented in WI-MIC-MYC-SPECI and WI-MIC-EQM-MG960
		- Rapid culture method, blood culture	Method as documented in WI-MIC-MYC-BLOOD
	CSF, Respiratory and miscellaneous samples	Qualitative detection of MPT64 antigen of *Mycobacterium tuberculosis* complex by Chromatographic immunoassay	Method as documented in WI-MIC-MYC-TBCID
	Mycobacteriology – Microscopy		
	CSF, Respiratory and miscellaneous samples	Microscopy for acid-fast bacilli (AFB) by	
		- Auramine O fluorescent stain	Method as documented in WI-MIC-MYC-SPECI
		- Ziehl-Neelsen stain	

Hospital Authority – Kwong Wah Hospital, Department of Pathology
醫院管理局 – 廣華醫院病理部
Microbiology & Mycobacteriology Laboratory: 17/F, New Building, Kwong Wah Hospital, 25 Waterloo Road, Kln, H.K.
香港九龍窩打老道 25 號，廣華醫院新大樓十七樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics	**Molecular Genetics (microbiology)**		
	Respiratory specimens	Detection of *Mycobacterium tuberculosis* complex and Rifampicin resistance of MTB complex by Real-time polymerase chain reaction, qualitative (Target region:16s rRNA and rpoB gene)	Nucleic acid extraction and amplification: Method as documented in WI-MIC-MYC-TBRIF using Cepheid Gene Xpert
		Detection of *Mycobacterium tuberculosis* complex by Real-time polymerase chain reaction, qualitative (Target region:16s rRNA)	Nucleic acid extraction: Method as documented in WI-MIC-MYC-COBAS using AMPLICOR Respiratory Specimen Preparation Kit Nucleic acid amplification and detection: Method as documented in WI- MIC-MYC-COBAS using COBAS TaqMan MTB Test Nucleic acid extraction, amplification and detection by Abbott m2000 system
	Miscellaneous specimens (non-respiratory), including CSF, tissue, bone, blood, EMU, aspirate, PDF, ascitic fluid, pleural fluid, pus, abscess	Detection of *Mycobacterium tuberculosis* complex by Real-time polymerase chain reaction, qualitative (Target region: IS6110 and PAB)	Nucleic acid extraction, amplification and detection: Method as documented in WI-MIC-MYC-ABBOT-04 using Abbott Realtime MTB assay
	Miscellaneous specimens (non-respiratory), including CSF, tissue, bone, aspirate, pleural fluid, joint fluid	Detection of *Mycobacterium tuberculosis* complex and Rifampicin resistance of MTB complex by Real-time polymerase chain reaction, qualitative (Target region: IS6110, IS1081 and rpoB gene)	Nucleic acid extraction, amplification and detection: Method as documented in WI-MIC-MYC-ULTRA-02 using Cepheid GeneXpert Ultra assay

Hospital Authority – Kwong Wah Hospital, Department of Pathology
醫院管理局 – 廣華醫院病理部
Microbiology & Mycobacteriology Laboratory: 17/F, New Building, Kwong Wah Hospital, 25 Waterloo Road, Kln, H.K.
香港九龍窩打老道 25 號，廣華醫院新大樓十七樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics (cont'd)	**Molecular Genetics (microbiology)** (cont'd) CSF	Central Nervous System (CNS) pathogens detection by Multiplex Polymerase Chain Reaction, qualitative (Target region: Escherichia coli K1, Haemophilus influenza, Listeria monocytogenes, Neisseria meningitides (encapsulated), Streptococcus agalactiae, Streptococcus pneumoniae, Cytomegalovirus, Enterovirus, Herpes simplex virus 1, Herpes simplex virus 2, Human herpesvirus 6, Human parechovirus, Varicella zoster virus, and Cryptococcus neoformans/gattii: proprietary)	FilmArray Meningitis/Encephalitis (ME) panel Nucleic acid extraction, amplification and detection: FilmArray Meningitis/Encephalitis (ME) panel
	Respiratory specimens	Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) – detection by Real-time Polymerase Chain Reaction, qualitative (Target region: E gene and N gene)	Cepheid Xpert Xpress SARS-CoV-2 Assay Nucleic acid amplification and detection by Cepheid GeneXpert System
		Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2), Influenza A virus, Influenza B virus and Respiratory syncytial virus (RSV) - detection by Real-time Polymerase Chain Reaction, qualitative (Target region: SARS-CoV-2: E gene, N gene and RdRP genes Influenza A virus: M, PB2 and PA genes Influenza B virus: M and NS RSV: RSV A and RSV B nucleocapsid genes)	Cepheid Xpert Xpress CoV-2/Flu/RSV plus Assay Nucleic acid amplification and detection by Cepheid GeneXpert System

Hospital Authority – Kwong Wah Hospital, Department of Pathology
醫院管理局 – 廣華醫院病理部
Microbiology & Mycobacteriology Laboratory: 17/F, New Building, Kwong Wah Hospital, 25 Waterloo Road, Kln, H.K.
香港九龍窩打老道 25 號，廣華醫院新大樓十七樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics (cont'd)	**Molecular Genetics (microbiology)** (cont'd) Respiratory specimens (cont'd)	Influenza A virus, Influenza B virus and Respiratory syncytial virus (RSV) – detection by Real-time Polymerase Chain Reaction, qualitative (Target region: Influenza A virus: M, PB2 and PA genes Influenza B virus: M and NS; RSV: RSV A and RSV B nucleocapsid genes)	Cepheid Xpert Xpress Flu/RSV Assay Nucleic acid amplification and detection by Cepheid GeneXpert System
		Respiratory syncytial virus (RSV), Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2), Middle East Respiratory Syndrome Coronavirus (MERS-CoV), Influenza A virus, Influenza B virus, Coronavirus 229E, OC43, NL63 and HKU1, Parainfluenza virus type 1, 2, 3 and 4, Human metapneumovirus, Adenovirus, Enterovirus/Rhinovirus, Bordetella pertussis, Bordetella parapertussis, Chlamydia pneumonia and Mycoplasma pneumonia – detection by Polymerase chain Reaction, qualitative (Target region: proprietary)	FilmArray Respiratory Panel 2.1 plus Nucleic acid amplification and detection by BioFire Film Array Multiplex PCR System

Chan & Hou Medical Laboratories Ltd.
香港(CH)病理檢驗中心

ADDRESS **地址**	:	18/F, Block B, Vita Tower, 29 Wong Chuk Hang Road, Hong Kong 香港黃竹坑道 29 號維他大廈 B 座十八樓
ENQUIRY **查詢**	:	Mr LAM Chak-hang 林澤行先生
TELEPHONE **電話**	:	2522 1860
FAX **傳真**	:	2845 9652
E-MAIL **電郵**	:	jasonlam@chlab.com.hk
CLIENTELE **服務對象**	:	Private physicians, medical centres, private and public hospitals and other medically-related institutions 私家醫生, 醫療中心, 私營及公營醫院和與醫療有關的機構

Chan & Hou Medical Laboratories Ltd.
香港(CH)病理檢驗中心

ADDRESS :
地址

Main facility
18/F, Block B, Vita Tower, 29 Wong Chuk Hang Road, Hong Kong
香港黃竹坑道29號維他大廈B座18樓

Branch facility
Room 906, 9/F, Melbourne Plaza, 33 Queen's Road Central, Central, Hong Kong
香港中環皇后大道中33號萬邦行9樓906室

Collection Centres 樣本收集中心:

1. Room 801, 8/F, Hang Seng Tsim Sha Tsui Building, 18 Carnarvon Road, Tsim Sha Tsui, Kowloon, Hong Kong
   九龍尖沙咀加拿分道 18 號恒生尖沙咀大廈 8 樓 801 室
2. Room 1310, 13/F, Tower 1, Grand Central Plaza, 138 Shatin Rural Committee Road, Shatin, New Territories
   新界沙田鄉事會路 138 號新城市中央廣場 1 座 13 樓 1310 室

LABORATORY DIRECTOR : **Biomedical Scientist Director 醫務科學主管:**
化驗所主管
Miss Denise HOU Yuen-chi
侯元琪小姐
MPhil, MMedSc, Reg. Part I MLT

PATHOLOGIST IN CHARGE OF THE ACCREDITED DISCIPLINE : Nil
負責認可範疇的病理學專科醫生

ACCREDITED TEST CATEGORY : **Medical Testing**
認可測試類別 **醫務化驗**

Chemical Pathology	化學病理學
Clinical Microbiology and Infection	臨床微生物學及傳染病
Haematology	血液學
Immunology	免疫學
Medical Genetics (Molecular Genetics)	醫學遺傳學（分子遺傳學）

Chan & Hou Medical Laboratories Ltd.

香港(CH)病理檢驗中心

Main facility: 18/F, Block B, Vita Tower, 29 Wong Chuk Hang Road, Hong Kong

香港黃竹坑道 29 號維他大廈 B 座 18 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology	**General chemistry**		
	Fluoride plasma	Glucose by Spectrophotometry	Abbott Alinity c System Glucose Assay
	Serum	Albumin by Spectrophotometry	Abbott Alinity c System Albumin BCG2 Assay
		Alanine Aminotransferase (ALT) by Spectrophotometry	Abbott Alinity c System ALT 2 Assay
		Alkaline Phosphatase (ALP) by Spectrophotometry	Abbott Alinity c System ALP 2 Assay
		Amylase by Spectrophotometry	Abbott Alinity c System Amylase 2 Assay
		Aspartate Aminotransferase (AST) by Spectrophotometry	Abbott Alinity c System AST 2 Assay
		Bilirubin, Direct by Spectrophotometry	Abbott Alinity c System Direct Bilirubin Assay
		Bilirubin, Total by Spectrophotometry	Abbott Alinity c System Total Bilirubin Assay
		Calcium by Spectrophotometry	Abbott Alinity c System Calcium Assay
		Chloride by Potentiometry (Ion Selective Electrode)	Abbott Alinity c System Chloride Assay
		Cholesterol, high density lipoproteins (HDL) by Spectrophotometry	Abbott Alinity c System Ultra HDL Assay
		Cholesterol, low density lipoproteins (LDL) by Spectrophotometry	Abbott Alinity c System LDL Assay
		Cholesterol, low density lipoproteins (LDL) by Calculation	Abbott Alinity c System (Calculated from Triglycerides Method Manual)

Chan & Hou Medical Laboratories Ltd.

香港(CH)病理檢驗中心

Main facility: 18/F, Block B, Vita Tower, 29 Wong Chuk Hang Road, Hong Kong

香港黃竹坑道 29 號維他大廈 B 座 18 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology (cont'd)	**General chemistry** (cont'd) Serum (cont'd)	Cholesterol by Spectrophotometry	Abbott Alinity c System Cholesterol 2 Assay
		Creatinine by Spectrophotometry	Abbott Alinity c System Creatinine 2 Assay
		Creatine Kinase (CK) by Spectrophotometry	Abbott Alinity c System Creatine Kinase Assay
		Gamma Glutamyltransferase (GGT) by Spectrophotometry	Abbott Alinity c System GGT 2 Assay
		Globulin by Calculation	Abbott Alinity c System (Calculated from Albumin Method Manual)
		Iron by Spectrophotometry	Abbott Alinity c System Iron 2 Assay
		Lactate Dehydrogenase (LDH) by Spectrophotometry	Abbott Alinity c System LDH 2 Assay
		Magnesium by Spectrophotometry	Abbott Alinity c System Magnesium Assay
		Oral glucose tolerance test by Spectrophotometry	Abbott Alinity c System Glucose Assay
		Phosphate by Spectrophotometry	Abbott Alinity c System Phosphorus Assay
		Potassium by Potentiometry (Ion Selective Electrode)	Abbott Alinity c System Potassium Assay
		Protein, Total by Spectrophotometry	Abbott Alinity c System Total Protein 2 Assay
		Sodium by Potentiometry (Ion Selective Electrode)	Abbott Alinity c System Sodium Assay

Chan & Hou Medical Laboratories Ltd.

香港(CH)病理檢驗中心

Main facility: 18/F, Block B, Vita Tower, 29 Wong Chuk Hang Road, Hong Kong

香港黃竹坑道 29 號維他大廈 B 座 18 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology (cont'd)	**General chemistry** (cont'd) Serum (cont'd)	Total Iron Binding Capacity (TIBC) by Calculation	Abbott Alinity c System (Calculated from UIBC Method Manual)
		Triglycerides by Spectrophotometry	Abbott Alinity c System Triglyceride 2 Assay
		Urea by Spectrophotometry	Abbott Alinity c System Urea Nitrogen Assay
		Unsaturated Iron Binding Capacity (UIBC) by Spectrophotometry	Abbott Alinity c System UIBC Assay
		Uric acid by Spectrophotometry	Abbott Alinity c System Uric Acid 2 Assay

Chan & Hou Medical Laboratories Ltd.

香港(CH)病理檢驗中心

Main facility: 18/F, Block B, Vita Tower, 29 Wong Chuk Hang Road, Hong Kong

香港黃竹坑道 29 號維他大廈 B 座 18 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology (cont'd)	**Hormones** Serum	Estradiol (E2) by Immunoassay (Chemiluminescent label)	Roche cobas e402 system E2 assay
		Follicle Stimulating Hormone (FSH) by Immunoassay (Chemiluminescent label)	Roche cobas e402 system FSH assay
		Lutheinising Hormone (LH) by Immunoassay (Chemiluminescent label)	Roche cobas e402 system LH assay
		Parathyroid Hormone (PTH) by Immunoassay (Chemiluminescent label)	Roche cobas e402 system iPTH assay
		Progesterone by Immunoassay (Chemiluminescent label)	Roche cobas e402 system Progesterone assay
		Prolactin by Immunoassay (Chemiluminescent label)	Roche cobas e402 system Prolactin assay
		Testosterone by Immunoassay (Chemiluminescent label)	Roche cobas e402 system Testosterone assay
		Anti-Thyroglobulin by Immunoassay (Chemiluminescent label)	Roche cobas e402 Anti-Tg Assay
		Thyroglobulin by Immunoassay (Chemiluminescent label)	Roche cobas e402 Tg II Assay
		Thyroxine (T4), Free by Immunoassay (Chemiluminescent label)	Abbott Alinity i System Free T4 Assay
		Triiodothyronine (T3), Free by Immunoassay (Chemiluminescent label)	Abbott Alinity i System Free T3 Assay
		Thyroid Stimulating Hormone (TSH) by Immunoassay (Chemiluminescent label)	Abbott Alinity i System TSH Assay

Chan & Hou Medical Laboratories Ltd.

香港(CH)病理檢驗中心

Main facility: 18/F, Block B, Vita Tower, 29 Wong Chuk Hang Road, Hong Kong

香港黃竹坑道 29 號維他大廈 B 座 18 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology (cont'd)	**Special chemistry**		
	EDTA whole blood	Haemoglobin A1c (HbA1c) by High performance liquid chromatography	Bio-Rad D100 Haemoglobin Testing System HbA1c assay
	Serum	25 (Hydroxy) Vitamin D by Immunoassay (Chemiluminescent label)	Roche cobas e402 system Vitamin D assay
		N-terminal pro b-type natriuretic peptide (NT-proBNP) by Immunoassay (Chemiluminescent label)	Roche cobas e402 system NT-proBNP assay
	Stool	Occult Blood by Rapid chromatographic immunoassay	Method as documented in MIC LP 511 using WONDFO One Step Faecal Occult Blood FOB Test
	Tumour markers		
	Serum	AFP by Immunoassay (Chemiluminescent label)	Abbott Alinity i System AFP Assay
		CEA by Immunoassay (Chemiluminescent label)	Abbott Alinity i System CEA Assay
		Free PSA by Immunoassay (Chemiluminescent label)	Abbott Alinity i System Free PSA Assay
		Total PSA by Immunoassay (Chemiluminescent label)	Abbott Alinity i System Total PSA Assay
		PSA, Free/Total ratio by Calculation	Abbott Alinity i System (Calculated from Free PSA and Total PSA as documented in Free PSA Method Manual)

Chan & Hou Medical Laboratories Ltd.

香港(CH)病理檢驗中心

Main facility: 18/F, Block B, Vita Tower, 29 Wong Chuk Hang Road, Hong Kong

香港黃竹坑道 29 號維他大廈 B 座 18 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Clinical Microbiology and Infection	**Parasitology**		
	Stool	Microscopy for enteric parasites by	
		- Direct wet smear	Method as documented in MIC LP 510
		- Smear after concentration	
	Syphilis serology		
	Serum	*Treponema pallidum* antibody by	
		Immunoassay (Enzyme-based label)	Abbott Alinity i System Syphilis TP Assay
	Urinalysis and urine microscopy		
	Urine	Urinalysis by	
		Dipstick, including	
		- Colour	Automated Urinalysis – Sysmex UC3500
		- Appearance	Siemens Multistix 10SG and Reader; Siemens Clinitek
		- Leukocytes	Advantus Analyser
		- Specific Gravity	Method as documented in MIC LP 508
		- pH	77 Elektronika Ktf. LabStrip U11 Plus on 77 Elektronika Ktf.
		- Protein	LabUReader Plus 2
		- Glucose	
		- Ketone	
		- Occult Blood	
		- Bilirubin	
		- Urobilinogen	
		- Nitrite	
		Urine Formed Elements by	
		- Automated urine microscopy system	Automated Urinalysis – Sysmex UF4000
		Urine Formed Elements by	
		Wet smear microscopic examination	Method as documented in MIC LP 509 using HPF and fixed volume in Cell Chamber

Chan & Hou Medical Laboratories Ltd.

香港(CH)病理檢驗中心

Main facility: 18/F, Block B, Vita Tower, 29 Wong Chuk Hang Road, Hong Kong

香港黃竹坑道 29 號維他大廈 B 座 18 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Virology – Serology** Serum	Hepatitis A virus antibody (IgG) by Immunoassay (Chemiluminescent label)	Abbott Alinity i System HAVG-IgG Assay
		Hepatitis B virus antibody (Anti-HBs) by Immunoassay (Chemiluminescent label)	Abbott Alinity i System Anti-HBs Assay
		Hepatitis B virus surface antigen (HBsAg) by Immunoassay (Chemiluminescent label)	Abbott Alinity i System HBsAgQ2 Assay Abbott Alinity i System HBsAgQ2 Confirmatory Assay
		Immunochromatographic membrane assay	OneStep HBsAg RapiCard™ InstaTest for confirmation
		Hepatitis C virus antibody (anti-HCV) by Immunoassay (Chemiluminescent label)	Abbott Alinity i System Anti-HCV Assay
		Human immunodeficiency virus (HIV) I p24 antigen / HIV I and II antibody by Immunoassay (Chemiluminescent label)	Abbott Alinity i System HIV Ag/Ab Combo Assay
		Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) antibody (IgG) by Immunoassay (Chemiluminescent label)	Abbott Alinity i System SARS-CoV-2 IgG Assay

Chan & Hou Medical Laboratories Ltd.

香港(CH)病理檢驗中心

Main facility: 18/F, Block B, Vita Tower, 29 Wong Chuk Hang Road, Hong Kong

香港黃竹坑道 29 號維他大廈 B 座 18 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Haematology	**Haematology - General**		
	EDTA whole blood	Complete blood count including - Haemoglobin - Haematocrit - Leucocyte count (WBC count) - Leucocyte differential count - Mean corpuscular volume (MCV) - Mean corpuscular haemoglobin (MCH) - Mean corpuscular haemoglobin concentration (MCHC) - Platelet count - Red cell count - Red cell distribution width (RDW)	Sysmex XN-1000
		Erythrocyte Sedimentation Rate (ESR) by Manual method	Method as documented in LP HEM 206
		Peripheral blood smear examination by May-Grunwald-Giemsa/ Wright stain	Method as documented in LP HEM 202
	Immunohaematology		
	Clotted blood or EDTA whole blood	ABO and Rh (D) typing by Red Cell agglutination	Method as documented in LP HEM 205

Chan & Hou Medical Laboratories Ltd.

香港(CH)病理檢驗中心

Main facility: 18/F, Block B, Vita Tower, 29 Wong Chuk Hang Road, Hong Kong

香港黃竹坑道 29 號維他大廈 B 座 18 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Immunology	**Immunochemistry** Serum	Complement (C3) by Immunoturbidimetry	Abbott Alinity c System Complement C3 Assay
		Complement (C4) by Immunoturbidimetry	Abbott Alinity c System Complement C4 Assay
		C-Reactive Protein (CRP) by Immunoturbidimetry	Abbott Alinity c System CRP Vario Assay
		Immunoglobulins IgA by Immunoturbidimetry	Abbott Alinity c System Immunoglobulin A Assay
		Immunoglobulins IgE by Immunoturbidimetry	Abbott Alinity c System IGE Assay
		Immunoglobulins IgG by Immunoturbidimetry	Abbott Alinity c System Immunoglobulin G Assay
		Immunoglobulins IgM by Immunoturbidimetry	Abbott Alinity c System Immunoglobulin M Assay
		Rheumatoid Factor (RF) by Immunoturbidimetry	Abbott Alinity c System RF Assay

Chan & Hou Medical Laboratories Ltd.

香港(CH)病理檢驗中心

Main facility: 18/F, Block B, Vita Tower, 29 Wong Chuk Hang Road, Hong Kong

香港黃竹坑道 29 號維他大廈 B 座 18 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Medical Genetics	**Molecular genetics** Deep throat saliva nasal swab, throat swab, nasopharyngeal swab	Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) – detection by Real time Multiplex Polymerase Chain Reaction, qualitative (Target regions: ORF1a/b, N and S genes)	Nucleic acid extraction, amplification and detection as documented in MOP LP 614

Chan & Hou Medical Laboratories Ltd.

香港(CH)病理檢驗中心

Branch facility: Room 906, 9/F, Melbourne Plaza, 33 Queen's Road Central, Central, Hong Kong

香港中環皇后大道中 33 號萬邦行 9 樓 906 室

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Haematology	**Haematology - General** EDTA whole blood	Complete blood count including - Haemoglobin - Haematocrit - Leucocyte count (WBC count) - Leucocyte differential count - Mean corpuscular volume (MCV) - Mean corpuscular haemoglobin (MCH) - Mean corpuscular haemoglobin concentration (MCHC) - Platelet count - Red cell count - Red cell distribution width (RDW)	Sysmex XN-550
		Erythrocyte Sedimentation Rate (ESR) by Manual method	Method as documented in LP HEM 206
		Peripheral blood smear examination by May-Grunwald-Giemsa/ Wright stain	Method as documented in LP HEM 202

Canossa Hospital (Caritas) Management Company Limited – Clinical Laboratory

ADDRESS : 4/F, A Block, 1 Old Peak Road, Hong Kong
地址 香港舊山頂道一號 A 座四樓

ENQUIRY : Mr LI Hing-sang
查詢 李慶生先生

TELEPHONE : 2825 5333
電話

FAX : 2825 5689
傳真

E-MAIL : lab@canossahospital.org.hk
電郵

WEBSITE ADDRESS : http://www.canossahospital.org.hk
網址

CLIENTELE : Private hospital
服務對象 私營醫院

Canossa Hospital (Caritas) Management Company Limited – Clinical Laboratory

ADDRESS **地址**	:	4/F, A Block, 1 Old Peak Road, Hong Kong 香港舊山頂道一號 A 座四樓
LABORATORY DIRECTOR **化驗所主管**	:	**Biomedical Scientist Director 醫務科學主管:** Ms LEE Ching-man 李靜敏女士 MMedSc, BSc, Reg. Part I MLT
PATHOLOGIST IN CHARGE OF THE ACCREDITED DISCIPLINE **負責認可範疇的病理學專科醫生**	:	Nil
ACCREDITED TEST CATEGORY **認可測試類別**	:	**Medical Testing** **醫務化驗**

Chemical Pathology	化學病理學
Clinical Microbiology and Infection	臨床微生物學及傳染病
Haematology	血液學
Immunology	免疫學

Canossa Hospital (Caritas) Management Company Limited – Clinical Laboratory
4/F, A Block, 1 Old Peak Road, Hong Kong
香港舊山頂道一號 A 座四樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology	**Blood gases and co-oximetry** Heparinized capillary whole blood, heparinized arterial whole blood	Blood Gas include: pCO_2 by Potentiometry	Instrumentation Laboratory GEM Premier 5000
		pH by Potentiometry	Instrumentation Laboratory GEM Premier 5000
		pO_2 by Potentiometry	Instrumentation Laboratory GEM Premier 5000
		Bicarbonate, Actual by Auto-calculation	Instrumentation Laboratory GEM Premier 5000 (Auto-calculated from preset equation)
		Bicarbonate, Standard by Auto-calculation	Instrumentation Laboratory GEM Premier 5000 (Auto-calculated from preset equation)
		O_2 saturation by Auto-calculation	Instrumentation Laboratory GEM Premier 5000 (Auto-calculated from preset equation)
		Base excess by Auto-calculation	Instrumentation Laboratory GEM Premier 5000 (Auto-calculated from preset equation)
		Total CO_2 by Auto-calculation	Instrumentation Laboratory GEM Premier 5000 (Auto-calculated from preset equation)
		O_2 content by Autocalculation	Instrumentation Laboratory GEM Premier 5000 (Auto-calculated from preset equation)

Canossa Hospital (Caritas) Management Company Limited – Clinical Laboratory
4/F, A Block, 1 Old Peak Road, Hong Kong
香港舊山頂道一號 A 座四樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology (cont'd)	**General Chemistry** Serum	Alanine Aminotransferase (ALT) by Spectrophotometry	Roche cobas c503 System ALTP2 assay
		Albumin by Spectrophotometry	Roche cobas c503 System Albumin BCG assay
		Albumin/Globulin ratio by Calculation	Calculated from results of Albumin and Total Serum Protein using formula as documented in WI-CC-041
		Alkaline Phosphatase (ALP) by Spectrophotometry	Roche cobas c503 System ALP2 assay
		Amylase by Spectrophotometry	Roche cobas c503 System AMYL2 assay
		Aspartate Aminotransferase (AST) by Spectrophotometry	Roche cobas c503 System ASTP2 assay
		Bicarbonate by Spectrophotometry	Roche cobas c503 System CO2-L assay
		Bilirubin, Direct by Spectrophotometry	Roche cobas c503 System Bilirubin, Direct assay
		Bilirubin, Total by Spectrophotometry	Roche cobas c503 System Bilirubin, Total assay
		Bilirubin, Indirect by Calculation	Roche cobas c503 System [calculated from Bilirubin, Total and Bilirubin, Direct]
		Bilirubin, Neonatal by Dual Wavelength	Leica Unistat Bilirubinometer Reichert Unisat Bilirubinometer
		Calcium by Spectrophotometry	Roche cobas c503 System Calcium assay
		Chloride by Potentiometry (Ion Selective Electrode)	Roche cobas c503 System ICT Na^+, K^+, Cl^- assay

Canossa Hospital (Caritas) Management Company Limited – Clinical Laboratory
4/F, A Block, 1 Old Peak Road, Hong Kong
香港舊山頂道一號 A 座四樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology (cont'd)	**General Chemistry** (cont'd) Serum (cont'd)	Cholesterol, High Density Lipoproteins (HDL) by Spectrophotometry	Roche cobas c503 System Direct HDL assay
		Cholesterol, Low Density Lipoproteins (LDL) by Spectrophotometry	Roche cobas c503 System Direct LDL assay
		Cholesterol, Total by Spectrophotometry	Roche cobas c503 System Cholesterol assay
		Creatine Kinase (CK) by Spectrophotometry	Roche cobas c503 System Cholesterol Creatine Kinase (CK2) assay
		Creatinine by Spectrophotometry	Roche cobas c503 System Creatinine (CREJ2) assay
		Estimated Glomerular Filtration Rate (eGFR) by Calculation	Roche cobas c503 System (calculated from Creatinine using Modification of Diet in Renal Disease (MDRD) Study equation)
		Gamma-Glutamyl Transferase (GGT) by Spectrophotometry	Roche cobas c503 System GGT assay
		Globulin by Auto-calculation	Auto-calculation from preset equation in Roche cobas c503 System
		Glucose by Spectrophotometry	Roche cobas c503 System Glucose assay
		Iron by Spectrophotometry	Roche cobas c503 System Iron assay
		Iron Binding Capacity, Total (TIBC) by Spectrophotometry	Roche cobas c503 System UIBC and Iron assay
		Iron saturation by Auto-calculation	Calculated from results of Iron and TIBC using formula as documented in WI-CC-041

Canossa Hospital (Caritas) Management Company Limited – Clinical Laboratory
4/F, A Block, 1 Old Peak Road, Hong Kong
香港舊山頂道一號 A 座四樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology (cont'd)	**General Chemistry** (cont'd)		
	Serum (cont'd)	Lactate Dehydrogenase (LDH) by Spectrophotometry	Roche cobas c503 System LDH assay
		Magnesium by Spectrophotometry	Roche cobas c503 System MG assay
		Phosphorus, Inorganic by Spectrophotometry	Roche cobas c503 System PHOS assay
		Potassium by Potentiometry (Ion Selective Electrode)	Roche cobas c503 System ICT Na^+, K^+, Cl^- assay
		Protein, Total by Spectrophotometry	Roche cobas c503 System Total Protein assay
		Sodium by Potentiometry (Ion Selective Electrode)	Roche cobas c503 System ICT Na^+, K^+, Cl^- assay
		Triglyceride by Spectrophotometry	Roche cobas c503 System Triglyceride assay
		Uric Acid by Spectrophotometry	Roche cobas c503 System Uric Acid assay
		Urea by Spectrophotometry	Roche cobas c503 System Urea assay
	Heparin plasma	Troponin T, high sensitive by Immunoassay (Chemiluminescent label)	Roche cobas e402 System Troponin T hs assay
	Hormones		
	EDTA plasma	Adrenocorticotropic hormone (ACTH) by Immunoassay (Chemiluminescent label)	Roche cobas e801 System Adrenocorticotropic hormone (ACTH) assay
	Serum	Cortisol by Immunoassay (Chemiluminescent label)	Roche cobas e801 System Cortisol assay
		Dehydroepiandrosterone sulfate (DHEA-S) by Immunoassay (Chemiluminescent label)	Roche cobas e402 System Dehydroepiandrosterone sulphate (DHEA-S) assay

Canossa Hospital (Caritas) Management Company Limited – Clinical Laboratory
4/F, A Block, 1 Old Peak Road, Hong Kong
香港舊山頂道一號 A 座四樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology (cont'd)	**Hormones** (cont'd)		
	EDTA plasma	Parathyroid hormone, Intact (PTH) by Immunoassay (Chemiluminescent label)	Roche cobas e402 System Parathyroid hormone, Intact (PTH) assay
	Serum	Thyroid Stimulating Hormone (TSH) by Immunoassay (Chemiluminescent label)	Roche cobas e801 System Thyroid Stimulating Hormone (TSH) assay
		Thyroxine, Free (FT4) by Immunoassay (Chemiluminescent label)	Roche cobas e801 System Thyroxine, Free (FT4) assay
		Triiodothyronine, Free (FT3) by Immunoassay (Chemiluminescent label)	Roche cobas e801 System Triiodothyronine, Free (FT3) assay
		Estradiol by Immunoassay (Chemiluminescent label)	Roche cobas e801 System Estradiol (E2) assay
		Follicle Stimulating Hormone (FSH) by Immunoassay (Chemiluminescent label)	Roche cobas e801 System Follicle Stimulating Hormone (FSH) assay
		Human Chorionic Gonadotropin (β-HCG) by Immunoassay (Chemiluminescent label)	Roche cobas e402 System Human Chorionic Gonadotropin (HCG) assay
		Lutheinising Hormone (LH) by Immunoassay (Chemiluminescent label)	Roche cobas e801 System Lutheinising Hormone (LH) assay
		Prolactin by Immunoassay (Chemiluminescent label)	Roche cobas e801 System Prolactin assay
		Progesterone by Immunoassay (Chemiluminescent label)	Roche cobas e801 System Progesterone assay

Canossa Hospital (Caritas) Management Company Limited – Clinical Laboratory
4/F, A Block, 1 Old Peak Road, Hong Kong
香港舊山頂道一號 A 座四樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology (cont'd)	**Proteins, quantitative analysis**		
	Serum	C-Reactive Protein (CRP) by Spectrophotometry	Roche cobas c503 System CRP assay
		Ferritin by Immunoassay (Chemiluminescent label)	Roche cobas e801 System Ferritin assay
	Special Chemistry		
	EDTA whole blood	Haemoglobin A1C (HbA1c) by Capillary electrophoresis	Sebia Minicap flex-piercing capillary electrophoresis analyser, Sebia MINICAP HbA1c kit
	Serum	Folate by Immunoassay (Chemiluminescent label)	Roche cobas e402 System Folate assay
		25-Hydroxyvitamin D, Total (Vitamin D, Total) by Immunoassay (Chemiluminescent label)	Roche cobas e801 System 25-Hydroxyvitamin D, Total (Vitamin D, Total) assay

Canossa Hospital (Caritas) Management Company Limited – Clinical Laboratory
4/F, A Block, 1 Old Peak Road, Hong Kong
香港舊山頂道一號 A 座四樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology (cont'd)	**Tumour Markers** Serum	Alpha-fetoprotein (AFP) by Immunoassay (Chemiluminescent label)	Roche cobas e801 System Alpha-fetoprotein (AFP) assay
		CA 15-3 by Immunoassay (Chemiluminescent label)	Roche cobas e801 System Cancer Antigen 15-3 (CA 15-3 II) assay
		CA19-9 by Immunoassay (Chemiluminescent label)	Roche cobas e801 System Cancer Antigen 19-9 (CA19-9) assay
		CA 125 by Immunoassay (Chemiluminescent label)	Roche cobas e801 System Cancer Antigen 125 (CA 125 II) assay
		Carcinoembroynic Antigen (CEA) by Immunoassay (Chemiluminescent label)	Roche cobas e801 System Carcinoembroynic Antigen (CEA) assay
		Prostate Specific Antigen, Free (FPSA) by Immunoassay (Chemiluminescent label)	Roche cobas e801 System Prostate Specific Antigen, Free (FPSA) assay
		Prostate Specific Antigen, Total (TPSA) by Immunoassay (Chemiluminescent label)	Roche cobas e801 System Prostate Specific Antigen, Total (TPSA) assay
		PSA, Free / PSA, Total Ratio by Calculation	Calculated from results of Free and Total Prostate Specific Antigen (PSA) using formula as documented in WI-CC-041
Immunology	**Immunochemistry** Serum	Immunoglobulin E (IgE) by Immunoassay (Chemiluminescent label)	Roche cobas e402 System Immunoglobulin E (IgE) assay

Canossa Hospital (Caritas) Management Company Limited – Clinical Laboratory
4/F, A Block, 1 Old Peak Road, Hong Kong
香港舊山頂道一號 A 座四樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Clinical Microbiology and Infection	**Virology – Serology** Serum	Hepatitis B surface antibody (Anti-HBs) by Immunoassay (Chemiluminescent label)	Roche cobas e801 System Hepatitis B surface antibody (Anti-HBs II) assay
		Hepatitis B surface antigen (HBsAg) by Immunoassay (Chemiluminescent label)	Roche cobas e801 System Hepatitis B surface antigen (HBsAg II) assay
		Hepatitis C antibody (Anti-HCV) by Immunoassay (Chemiluminescent label)	Roche cobas e801 System Hepatitis C antibody (Anti-HCV II) assay
		Human Immunodeficiency virus (HIV) I p24 antigen and HIV I & II antibody by Immunoassay (Chemiluminescent label)	Roche cobas e801 System Human Immunodeficiency Virus HIV-1 antigen and total antibody to HIV-1 and HIV-2 (HIV Combi PT) assay

Canossa Hospital (Caritas) Management Company Limited – Clinical Laboratory
4/F, A Block, 1 Old Peak Road, Hong Kong
香港舊山頂道一號 A 座四樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Haematology	**Haematology - General** EDTA whole blood	Complete blood count including - Haemoglobin - Haematocrit - Leucocyte count (WBC count) - Mean corpuscular volume (MCV) - Mean corpuscular haemoglobin (MCH) - Mean corpuscular haemoglobin concentration (MCHC) - Platelet count - Red cell count	Automated system: Sysmex XN 1000
		Erythrocyte sedimentation rate (ESR) by Automated method	Method as documented in SOP-HE-03 using Vital Diagnostics Monitor 20 Method as documented in SOP-HE-07 using Alifax Roller 20PN
		Malaria parasite examination by Thick and thin films	Method as documented in SOP-HE-05
		Peripheral blood smear examination by May-Grunwald-Giemsa/ Wright stain	Method as documented in SOP-HE-02

Canossa Hospital (Caritas) Management Company Limited – Clinical Laboratory
4/F, A Block, 1 Old Peak Road, Hong Kong
香港舊山頂道一號 A 座四樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Haematology (cont'd)	**Blood bank – General**		
	Clotted blood and EDTA whole blood	ABO and Rh(D) typing by Red cell agglutination	Gel card method (Bio-Rad) as documented in WI-BB-21 using Bio Rad IH-500 Manual method as documented in WI-BB-02, WI-BB-06 and WI-BB-07
		Antibody screening by column agglutination technology	Gel card method (Bio-Rad) as documented in WI-BB-21 using Bio Rad IH-500
		Crossmatch by column agglutination technology	Gel card method (Bio-Rad) as documented in WI-BB-21 using Bio Rad IH-500
	Cord blood	ABO and Rh(D) typing by Red cell agglutination	Gel card method (Bio-Rad) as documented in WI-BB-21 using Bio Rad IH-500 Manual method as documented in WI-BB-08
	Blood Bank – Special		
	Clotted blood and EDTA whole blood	Antibody identification by column agglutination technology	Gel card method (Bio-Rad) as documented in WI-BB-21 using Bio Rad IH-500
	Blood bank – Immunohaematology		
	EDTA whole blood	Direct antiglobulin test (DAT) by column agglutination technology	Gel card method (Bio-Rad) as documented in WI-BB-21 using Bio Rad IH-500

Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology
醫院管理局–屯門醫院臨床病理學部

ADDRESS : Pathology Block, Tuen Mun Hospital, 23 Tsing Chung Koon Road, Tuen Mun, New Territories, Hong Kong
地址 香港新界屯門青松觀路 23 號病理學大樓

ENQUIRY : Mr Benedict CHAN Yin-leung
查詢 陳賢良先生

TELEPHONE : 2468 5307
電話

FAX : 2463 2565
傳真

E-MAIL : chanylb@ha.org.hk
電郵

WEBSITE ADDRESS : http://ntwc.home/pi/
網址

CLIENTELE : Public and private hospitals and clinics
服務對象 公營及私營醫院和診所

Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology
醫院管理局–屯門醫院臨床病理學部

ADDRESS :
地址

Main Facility
Pathology Block, Tuen Mun Hospital, 23 Tsing Chung Koon Road, Tuen Mun, New Territories, Hong Kong
香港新界屯門青松觀路23號屯門醫院病理學大樓
(i) Anatomical & Cellular Pathology Laboratory: 1/F, Pathology Block
(ii) Chemical Pathology Laboratory: G/F, Main Block and 1/F, Pathology Block
(iii) Haematology & Serology Laboratory and Blood Bank: G/F, Pathology Block
(iv) Microbiology Laboratory: 2/F, Pathology Block
(v) Molecular Biology Laboratory: 2/F, Pathology Block
(vi) Mortuary, G/F, Main Block

Branch Facility 1
Department of Clinical Pathology, 2/F, Pok Oi Hospital, Au Tau, Yuen Long, New Territories, Hong Kong
香港新界元朗凹頭博愛醫院二樓臨床病理學部
(i) Anatomical & Cellular Pathology Laboratory
(ii) Core Laboratory

Branch Facility 2
Department of Clinical Pathology 9/F, Tin Shui Wai Hospital, 11 Tin Tan Street, Tin Shui Wai, New Territories, Hong Kong
香港新界天水圍天壇街11號天水圍醫院九樓病理學部
(i) Core Laboratory

LABORATORY DIRECTOR
化驗所主管 : **Pathologist Director 病理學主管:**
Dr MAK Siu-ming
麥兆銘醫生
MBChB(HK), FHKCPath, FHKAM(Pathology), FRCPA

PATHOLOGIST IN CHARGE OF THE ACCREDITED DISCIPLINE
負責認可範疇的病理學專科醫生 :

Anatomical Pathology 解剖病理學
Dr MAK Siu-ming 麥兆銘醫生 (Full-time 全職)

Clinical Microbiology and Infection 臨床微生物學及傳染病
Dr QUE Tak-lun 郭德麟醫生 (Full-time 全職)

Haematology 血液學
Dr YIP Sze-fai 葉仕輝醫生 (Full-time 全職)

ACCREDITED TEST CATEGORY
認可測試類別 : **Medical Testing 醫務化驗**

Anatomical Pathology	解剖病理學
Chemical Pathology	化學病理學
Clinical Microbiology and Infection	臨床微生物學及傳染病
Haematology	血液學
Immunology	免疫學
Medical Genetics (Molecular Genetics)	醫學遺傳學(分子遺傳學)

Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology
醫院管理局–屯門醫院臨床病理學部
Mortuary: G/F, Main Block, Tuen Mun Hospital, 23 Tsing Chung Koon Road, Tuen Mun, N.T., H.K.
香港新界屯門青松觀路 23 號屯門醫院主座地下

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology	**Autopsy** Adult, fetal and perinatal autopsy	Autopsy examination by Routine and special staining	Autopsy method and specimen preparation & handling: Routine and special staining as in Histopathology Haematoxylin & Eosin stain: LPTA1617 Special staining: LPTA1601 to LPTA1650

Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology
醫院管理局–屯門醫院臨床病理學部
Anatomical & Cellular Pathology Laboratory: 1/F, Pathology Block, Tuen Mun Hospital, 23 Tsing Chung Koon Road, N.T., H.K.
香港新界青松觀路 23 號屯門醫院病理學大樓一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology	**Cytopathology**		
	Fine Needle Aspirates	Fine Needle Aspiration cytology examination by H&E, Papaniolaou and special staining	Specimen preparation: LPTA6603 Haematoxylin and Eosin stain: LPTA5602 Papanicolaou stain: LPTA5603 Giemsa stain: LPTA5604 Special staining (manual): Method as documented in LPTA1601, LPTA1631, LPTA1639, LPTA1646 and LPTA5606 Acid Fast Bacilli by Ziehl Neelsen Acid Mucin by Alcian Blue Fungi by Grocott's Methenamine Silver Mucins by Southgate's Mucicarmine Periodate Reactive Carbohydrates by Periodic Acid Schiff
	Histopathology		
	Surgical pathology	Surgical cutting for histology	Specimen reception, transportation, accession and grossing: LPTA1101, LPTA1102 , LPTA1106, LPTA0106
	Intra-operative Frozen Section for fresh surgical specimens	Histology examination by H&E staining	Specimen preparation and routine staining: Method as documented in LPTA1801
	Fresh tissue specimens and biopsies	Histology examination and enzyme-histochemistry by H&E and special staining	Specimen preparation and H&E staining (manual): LPTA3105 Special staining (manual) for muscle: LPTA1604 LPTA1612, LPTA1625, LPTA1627, LPTA1628, LPTA1630, LPTA1638, LPTA1648, LPTA1650 Activated Macrophages by Non-Specific Esterase Lipids by Oil Red O Periodate Reactive Carbohydrates by PAS Mitochondria by COX/ Succinate Dehydrogenase Mitochondria by Cytochrome Oxidase Mitochondria by NADH-TR Mitochondria by Succinate Dehydrogenase (SDH) Muscle Fibres by Gormori's Trichrome Type I & II Muscle Fibres by ATPase, pH4.3,4.6& 9.4

Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology
醫院管理局–屯門醫院臨床病理學部
Anatomical & Cellular Pathology Laboratory: 1/F, Pathology Block, Tuen Mun Hospital, 23 Tsing Chung Koon Road, N.T., H.K.
香港新界青松觀路 23 號屯門醫院病理學大樓一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology (cont'd)	**Immunohistochemistry** Renal and skin biopsies	Immunofluorescence examination by Manual method	Direct Immunofluorescence examination for renal and skin: LPTA3108 and LPTA3109 IgA/IgM/IgG/C1q/Complement 3/Fibrinogen/Kappa/Lambda

Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology
醫院管理局–屯門醫院臨床病理學部
Anatomical & Cellular Pathology Laboratory: 2/F, Pok Oi Hospital, Au Tau, Yuen Long, N.T., H.K.
香港新界元朗凹頭博愛醫院二樓病理學部

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology	**Cytopathology**		
	Gynaecological specimens	Gynaecological cytology examination by Papaniolaou staining	Specimen preparation (both automation and manual): LPTA5402, LPTA5406 Conventional smears with Papaniolaou stain: LPTA5603 ThinPrep smears with Papaniolaou stain: LPTA5611
	Non-gynaecological specimens	Non-gynaecological cytology examination by H&E, Papaniolaou and special staining	Specimen preparation: LPTA5403 to 5405; LPTA 5501 to 5505 Routine staining (both automation and manual): Method as documented in LPTA5601 to 5604 and LPTA 5611 Haematoxylin and Eosin stain Papanicolaou stain Giemsa stain Special staining (manual): Method as documented in LPTA1639, LPTA5606, LPTA5607 and LPTA5608 Fat-laden Macrophages by Oil Red O Fungi, Pneumocystis carinii by Grocott's Methenamine Silver Haemosiderin by Perls' Prussian Blue Mucin, Capsule of *Cryptococcus neoformans* by Southgate's Mucicarmine
	Histopathology		
	Surgical pathology	Histology examination by H&E, special staining	Specimen reception, accession and preparation: LPTA1101, LPTA1102, LPTA1104, LPTA1105, LPTA 1201, LPTA 1301 and LPTA1401 Routine H&E Staining: LPTA1502, LPTA1503 Tissue sections stained with special stains as documented in: LPTA1601-1650 Acid Mucin by Alcian blue Acid Fast Bacilli by Ziehl-Neelsen (Kinyuons) Acid and Neutral Mucin by Alcian Blue-PAS Activated Macrophages by Non-Specific Esterase Amyloid by Congo Red Amyloid by Crystal Violet Argentaffin Granules by Masson Fontana

Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology
醫院管理局–屯門醫院臨床病理學部
Anatomical & Cellular Pathology Laboratory: 2/F, Pok Oi Hospital, Au Tau, Yuen Long, N.T., H.K.
香港新界元朗凹頭博愛醫院二樓病理學部

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology (cont'd)	**Histopathology** (cont'd) Surgical pathology (cont'd)	Histology examination by H&E, special staining (cont'd)	Argyrophil Cells by Grimelius Silver Axons by Bodian Azurophilic Granules and Granulocytes by Giemsa Basement Membrane by PASM Calcium by von Kossa Collagen and Muscle by Masson's Trichrome Copper by Rhodamine Stain Copper by Rubeanic Acid Elastic Fibres by Elastic van Gieson Fibrin by MSB Fungi by Grocott's Hexamine Silver Ganglions and Nerve Plexus by Acetylcholine Esterase General Histology by Haematoxylin and Eosin Gram Positive Micro-organisms by Gram Haemosiderin by Perls' Prussian Blue HBsAg by Orcein Hyaluronic Acid by Hyaluronidase-Alcian-Blue Lipids by Sudan Black B Lipids by Oil Red O Lipofuscins by Long Ziehl-Neelsen Mast Cells by Chloro-Acetate Esterase Melanin Pigments by Schmorl's Mitochondria by COX/ Succinate Dehydrogenase Mitochondria by Cytochrome Oxidase Mitochondria by NADH-TR Mitochondria by Succinate Dehydrogenase (SDH) Mucins by Colloidal iron Mucins by Southgate's Mucicarmine Mucins by Toluidine blue Muscle Fibres by Gormori's Trichrome Myelin by Luxol Fast Blue Myocardial Infarct by Nitro Blue Tetrazolium *Mycobacteria* (*M. leprae*) by Wade-Fite

Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology
醫院管理局–屯門醫院臨床病理學部
Anatomical & Cellular Pathology Laboratory: 2/F, Pok Oi Hospital, Au Tau, Yuen Long, N.T., H.K.
香港新界元朗凹頭博愛醫院二樓病理學部

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology (cont'd)	**Histopathology** (cont'd) Surgical pathology (cont'd)	Histology examination by H&E, special staining (cont'd)	Nerve Fibres, Neurofibrillary Tangles, Neurotic Plaques by Bielchowsky's Silver Neuroglia, Muscle Striation by PTAH Periodate Reactive Carbohydrates by PAS Periodate Reactive Carbohydrates With Amylase Digestion by PASD Reticulin by Gordon & Sweet's Silver Spirochaetes & Helicobacter by Warthin & Starry Silver Type I & II Muscle Fibres by ATPase,pH4.3,4.6& 9.4 Urate Crystals by Methenamine Silver for Urate
	Intra-operative Frozen Section for fresh surgical specimens	Histology examination by H&E staining	Specimen preparation and routine staining: Method as documented in LPTA1801
	Immunohistochemistry Histological specimens	Immunohistochemical examination for various antigen markers by Automated method	Automated immunohistochemical staining for various immune-markers as documented in LPTA2107 – LPTA2111 Equipment: 1. Roche Ventana BenchMark ULTRA 2. Leica Bond III 3. Dako Omnis

Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology

醫院管理局–屯門醫院臨床病理學部

Chemical Pathology Laboratory: G/F, Main Block, Tuen Mun Hospital, 23 Tsing Chung Koon Road, N.T., H.K.

香港新界青松觀路 23 號屯門醫院主座大樓地下

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed in the scope below.			
Chemical Pathology	**Blood gases and Co-oximetry**		
	Heparinized whole blood	Blood Gas include: - pCO_2 by Potentiometry (pCO_2-Sensing Electrode)	Siemens RapidLab 1265 system
		- pH by Potentiometry (Ion-Selective Electrode)	Siemens RapidLab 1265 system
		- pO_2 by Polarography (Oxygen-Sensing Amperometric Electrode)	Siemens RapidLab 1265 system
		Carboxyhaemoglobin by Co-oximetry	Siemens RapidLab 1265 system
		Methaemoglobin by Co-oximetry	Siemens RapidLab 1265 system
	General Chemistry		
	Fluid, plasma	Alanine Aminotransferase (ALT) by Spectrophotometry	Abbott Alinity c system ALT assay
		Albumin by Spectrophotometry	Abbott Alinity c system Albumin assay
	Plasma	Albumin-Adjusted Calcium by Calculation, Spectrophotometry	Abbott Alinity c system Albumin and Calcium assay
		Alkaline Phosphatase (ALP) by Spectrophotometry	Abbott Alinity c system ALP assay
	Serum	Alkaline Phosphatase index by Spectrophotometry & heat treatment	Abbott Alinity c system ALP assay
	EDTA plasma	Ammonia by Spectrophotometry	Abbott Alinity c system Ammonia assay
	Fluid, plasma	Amylase by Spectrophotometry	Abbott Alinity c system Amylase assay

Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology
醫院管理局–屯門醫院臨床病理學部
Chemical Pathology Laboratory: G/F, Main Block, Tuen Mun Hospital, 23 Tsing Chung Koon Road, N.T., H.K.
香港新界青松觀路 23 號屯門醫院主座大樓地下

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations listed in the scope below.			
Chemical Pathology (cont'd)	**General Chemistry** (cont'd)		
	Plasma	Anion Gap by Calculation	Calculated from plasma sodium, chloride and bicarbonate
		Aspartate Aminotransferase (AST) by Spectrophotometry	Abbott Alinity c system AST assay
		Bicarbonate by Spectrophotometry	Abbott Alinity c system Carbon Dioxide assay
		Bilirubin, Direct by Spectrophotometry	Abbot Alinity c system Direct Bilirubin assay
		Bilirubin, Indirect by Calculation	Calculated from Bilirubin Total and Bilirubin Direct
	Fluid, plasma	Bilirubin, Total by Spectrophotometry	Abbott Alinity c system Total Bilirubin assay
	Serum	Bilirubin, Neonate by Spectrophotometry	Unistat Bilirubinometer
	Fluid, plasma	Calcium by Spectrophotometry	Abbott Alinity c system Calcium assay
	Heparinized whole blood	Calcium, ionized by Potentiometry (Ion-Selective Electrode)	Siemens RapidLab 1265 system
	CSF, fluid, plasma	Chloride by Potentiometry (Ion-Selective Electrode)	Abbott Alinity c system Chloride assay
	Plasma	Cholesterol by Spectrophotometry	Abbott Alinity c system Cholesterol assay
		Cholesterol - high density lipoproteins (HDL) by Spectrophotometry	Abbott Alinity c system HDL Cholesterol assay

Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology
醫院管理局–屯門醫院臨床病理學部
Chemical Pathology Laboratory: G/F, Main Block, Tuen Mun Hospital, 23 Tsing Chung Koon Road, N.T., H.K.
香港新界青松觀路 23 號屯門醫院主座大樓地下

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed in the scope below.			
Chemical Pathology (cont'd)	**General Chemistry** (cont'd)		
	Plasma	Cholesterol - low density lipoproteins (LDL) by Calculation	Calculated from cholesterol, HDL Cholesterol and Triglycerides
		Cholesterol – non-HDL (high density lipoprotein) by Calculation	Calculated from cholesterol and HDL Cholesterol
	Fluid, plasma	Creatine Kinase (CK) by Spectrophotometry	Abbott Alinity c system CK assay
		Creatinine by Spectrophotometry	Abbott Alinity c system Creatinine assay
	Plasma	Gamma Glutamyl Transpeptidase (GGT) by Spectrophotometry	Abbott Alinity c system GGT assay
		GFR, estimated by Calculation, Spectrophotometry	Abbott Alinity c system Creatinine assay
	CSF, fluid, plasma	Glucose by Spectrophotometry	Abbott Alinity c system Glucose assay
	Fluid, plasma	Globulin by Spectrophotometry Calculation	Calculated from total Protein and Albumin
		Inorganic phosphate by Spectrophotometry	Abbott Alinity c system Phosphorus
	Plasma	Iron by Spectrophotometry	Abbott Alinity c system Fe assay
	CSF, plasma	Lactate by Spectrophotometry	Abbott Alinity c system Lactate assay
	Fluid, plasma	Lactate dehydrogenase (LDH) by Spectrophotometry	Abbott Alinity c system LDH assay

Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology
醫院管理局–屯門醫院臨床病理學部
Chemical Pathology Laboratory: G/F, Main Block, Tuen Mun Hospital, 23 Tsing Chung Koon Road, N.T., H.K.
香港新界青松觀路 23 號屯門醫院主座大樓地下

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations listed in the scope below.			
Chemical Pathology (cont'd)	**General Chemistry** (cont'd)		
	Serum	Magnesium by Spectrophotometry	Abbott Alinity c system Magnesium assay
	Fluid, serum, urine	Osmolality by Freezing point depression	ARKRAY Daiichi Osmometer
	Serum	Osmolality gap by Calculation	Calculated from plasma sodium, plasma glucose, serum osmolality and plasma urea
	Fluid, plasma	Potassium by Potentiometry (Ion-Selective Electrode)	Abbott Alinity c system Potassium assay
		Protein, Total by Spectrophotometry	Abbott Alinity c system Total Protein assay
	CSF	Protein, Total by Spectrophotometry	Abbott Alinity c system Urine/CSF Protein assay
	Fluid, plasma	Sodium by Potentiometry (Ion-Selective Electrode)	Abbott Alinity c system Sodium assay
	Plasma	Total iron binding capacity by Calculation	Calculated from plasma iron and UIBC
	Plasma, fluid	Triglycerides by Spectrophotometry	Abbott Alinity c system Triglycerides assay
	EDTA plasma	Troponin I by Immunoassay (Chemiluminescent label)	Abbott Alinity i system STAT Troponin I assay

Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology
醫院管理局–屯門醫院臨床病理學部
Chemical Pathology Laboratory: G/F, Main Block, Tuen Mun Hospital, 23 Tsing Chung Koon Road, N.T., H.K.
香港新界青松觀路 23 號屯門醫院主座大樓地下

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed in the scope below.			
Chemical Pathology (cont'd)	**General Chemistry** (cont'd)		
	Fluid, plasma	Urea by Spectrophotometry	Abbott Alinity c system Urea Nitrogen assay
		Uric acid by Spectrophotometry	Abbott Alinity c system Uric Acid assay
	Plasma	Unsaturated iron binding capacity by Spectrophotometry	Abbott Alinity c system UIBC assay
	Urine	Magnesium by Spectrophotometry	Abbott Alinity c system Magnesium assay
	Serum	Transtubular Potassium Gradient (TTKG) by Calculation	Calculated from sodium and potassium
		Renal tubular reabsorption of phosphate (TMP) by Calculation	Calculated from creatinine and phosphorus
	Proteins, quantitative analysis		
	Serum	C-Reactive Protein by Immunoturbidimetry	Abbott Alinity c system CRP assay
	Special Chemistry		
	Serum	Cholinesterase, Pseudo by Spectrophotometry	Abbott Alinity c system Pseudocholinesterase assay
	Plasma	D-3-Hydroxybutyrate by Spectrophotometry	Abbott Alinity c system D-3-Hydroxybutyrate assay

Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology
醫院管理局–屯門醫院臨床病理學部
Chemical Pathology Laboratory: G/F, Main Block, Tuen Mun Hospital, 23 Tsing Chung Koon Road, N.T., H.K.
香港新界青松觀路 23 號屯門醫院主座大樓地下

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed in the scope below.			
Chemical Pathology (cont'd)	**Therapeutic Drug Monitoring**		
	Serum	Carbamazepine (Tegretol) by Immunoassay (Enzyme based Label)	Abbott Alinity c system Carbamazepine assay
		Digoxin by Immunoassay (Enzyme based Label)	Abbott Alinity c system Digoxin assay
		Lithium by Spectrophotometry	Abbott Alinity c system Lithium assay
		Methotrexate by Immunoassay (Chemiluminescent Label)	Abbott Alinity i system Methotrexate assay
		Phenobarbital (Luminal) by Immunoassay (Enzyme based Label)	Abbott Alinity c system Phenobarbital assay
		Phenytoin (Dilantin) by Immunoassay (Enzyme based Label)	Abbott Alinity c system Phenytoin assay
		Tricyclic Antidepressants by Immunoassay (Enzyme based Label)	Abbott Alinity c system Tricyclic Antidepressants assay
		Theophylline by Immunoassay (Enzyme based Label)	Abbott Alinity c system Theophylline assay
		Valproic Acid (Eplilm) by Immunoassay (Enzyme based Label)	Abbott Alinity c system Valproic Acid assay
	Toxicology		
	Serum	Acetaminophen by Spectrophotometry	Abbott Alinity c system Acetaminophen assay
		Ethanol by Spectrophotometry	Abbott Alinity c system Ethanol assay
		Salicylate by Spectrophotometry	Abbott Alinity c system Salicylate assay

Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology
醫院管理局–屯門醫院臨床病理學部
Chemical Pathology Laboratory: G/F, Main Block, Tuen Mun Hospital, 23 Tsing Chung Koon Road, N.T., H.K.
香港新界青松觀路 23 號屯門醫院主座大樓地下

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed in the scope below.			
Chemical Pathology (cont'd)	**Tumour Markers** Serum, CSF	AFP by - Immunoassay (Chemiluminescent Label)	Abbott Alinity i system Alpha-Fetoprotein assay
	Serum	CEA by Immunoassay (Chemiluminescent Label)	Abbott Alinity i system Carcinoembryonic Antigen assay
		PSA by Immunoassay (Chemiluminescent Label)	Abbott Alinity i system Prostate Specific Antigen assay

Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology
醫院管理局–屯門醫院臨床病理學部
Chemical Pathology Laboratory: 1/F, Pathology Block, Tuen Mun Hospital, 23 Tsing Chung Koon Road, N.T., H.K.
香港新界青松觀路 23 號屯門醫院病理學大樓一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed in the scope below.			
Chemical Pathology	**Drug of Abuse Testing**		
	Urine	Barbiturates by	
		Immunoassay (Enzyme based Label)	Abbott Architect c8000 system MULTIGENT Barbiturates assay
		Cannabinoids by	
		Immunoassay (Enzyme based Label)	Abbott Architect c8000 system MULTIGENT Cannabinoids assay
	General Chemistry		
	Urine	Albumin by	
		Spectrophotometry	Abbott Alinity c system Albumin assay
		Amylase by	
		Spectrophotometry	Abbott Alinity c system Amylase assay
		Calcium by	
		Potentiometry (Ion-Selective Electrode)	Abbott Alinity c system Calcium assay
		Calcium / Creatinine ratio by	
		Calculation	Calculated from Calcium and Creatinine assay
		Chloride by	
		Potentiometry (Ion-Selective Electrode)	Abbott Alinity c system Chloride assay
		Creatinine by	
		Spectrophotometry	Abbott Alinity c system Creatinine assay
		Creatinine clearance by	
		Calculation	Calculated from Creatinine assay
		Inorganic phosphate by	
		Spectrophotometry	Abbott Alinity c system Phosphorus assay
		pH by	
		Potentiometry	Method as documented in LPTC2703

Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology
醫院管理局–屯門醫院臨床病理學部
Chemical Pathology Laboratory: 1/F, Pathology Block, Tuen Mun Hospital, 23 Tsing Chung Koon Road, N.T., H.K.
香港新界青松觀路 23 號屯門醫院病理學大樓一樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations listed in the scope below.			
Chemical Pathology (cont'd)	**General Chemistry** (cont'd) Urine (cont'd)	Protein / Creatinine ratio by Calculation	Calculated from Protein, Total and Creatinine assay
		Protein, Total by Spectrophotometry	Abbott Alinity c system Urine/CSF Protein assay
		Transtubular Potassium Gradient (TTKG) by Calculation	Calculated from sodium and potassium
		Renal tubular reabsorption of phosphate (TMP) by Calculation	Calculated from creatinine and phosphorus
		Sodium by Potentiiometry (Ion-Selective Electrode)	Abbott Alinity c system Sodium assay
		Potassium by Potentiometry (Ion-Selective Electrode)	Abbott Alinity c system Potassium assay
		Urea by Spectrophotometry	Abbott Alinity c system Urea Nitrogen assay
		Uric acid by Spectrophotometry	Abbott Alinity c system Uric Acid assay

Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology
醫院管理局–屯門醫院臨床病理學部
Chemical Pathology Laboratory: 1/F, Pathology Block, Tuen Mun Hospital, 23 Tsing Chung Koon Road, N.T., H.K.
香港新界青松觀路 23 號屯門醫院病理學大樓一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed in the scope below.			
Chemical Pathology (cont'd)	**Hormones**		
	EDTA plasma	Adrenocorticotropic Hormone (ACTH) by Immunoassay (Chemiluminescent Label)	Siemens Immulite 2000 XPi ACTH assay
	Serum	Cortisol by Immunoassay (Chemiluminescent Label)	Abbott Architect i2000 system Cortisol assay
	Urine	Cortisol by Liquid chromatography-tandem mass spectrometry	Method as documented in LPTC4707 using AGILENT 6410 system
	Serum	Estradiol by Immunoassay (Chemiluminescent Label)	Abbott Architect i2000 system Estradiol assay
		Ferritin by Immunoassay (Chemiluminescent Label)	Abbott Alinity i system Ferritin assay
		Follicle Stimulating Hormone by Immunoassay (Chemiluminescent Label)	Abbott Architect i2000 system FSH assay
		Free Triiodothyronine by Immunoassay (Chemiluminescent Label)	Abbott Alinity i system FT3 assay
		Free Thyroxine by Immunoassay (Chemiluminescent Label)	Abbott Alinity i system FT4 assay
		Growth Hormone by Immunoassay (Chemiluminescent Label)	Siemens Immulite 2000 XPi GH assay
	Serum, CSF	Human Chorionic Gonadotropin by Immunoassay (Chemiluminescent Label)	Abbott Alinity i system HCG assay
	Serum	Luteinizing Hormone by Immunoassay (Chemiluminescent Label)	Abbott Architect i2000 system LH assay
		Prolactin by Immunoassay (Chemiluminescent Label)	Abbott Architect i2000 system Prolactin assay
		Progesterone by Immunoassay (Chemiluminescent Label)	Abbott Architect i2000 system Progesterone assay

Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology
醫院管理局–屯門醫院臨床病理學部
Chemical Pathology Laboratory: 1/F, Pathology Block, Tuen Mun Hospital, 23 Tsing Chung Koon Road, N.T., H.K.
香港新界青松觀路 23 號屯門醫院病理學大樓一樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations listed in the scope below.			
Chemical Pathology (cont'd)	**Hormones** (cont'd)		
	Serum (cont'd)	Sensitive Thyroid Stimulating Hormone by	
		Immunoassay (Chemiluminescent Label)	Abbott Alinity i system TSH assay
		Testosterone by	
		Immunoassay (Chemiluminescent Label)	Abbott Architect i2000 system Testosterone assay
	Inborn Errors of Metabolism		
	Stool	Glucose by	
		Dipstick method	Roche Combur 10 Test Method as documented in LPTC2603
		Reducing substances by	
		Benedict's Reagent	Method as documented in LPTC2602
	Urine	Reducing Substances by	
		Benedict's Reagent	Method as documented in LPTC2515
	Stool	Sugar by	
		Thin layer chromatography	Method as documented in LPTC2302
	Urine	Sugar by	
		Thin layer chromatography	Method as documented in LPTC2303
		Sulfite by	
		Dipstick method	MQuant Sulfite Test Method as documented in LPTC2519

Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology
醫院管理局–屯門醫院臨床病理學部
Chemical Pathology Laboratory: 1/F, Pathology Block, Tuen Mun Hospital, 23 Tsing Chung Koon Road, N.T., H.K.
香港新界青松觀路 23 號屯門醫院病理學大樓一樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations listed in the scope below.			
Chemical Pathology (cont'd)	**Protein, qualitative Analysis**		
	Urine	Protein pattern by Protein Electrophoresis	HYDRASYS 2 Scan Focusing system
	Serum	Protein pattern by Capillary Electrophoresis	Sebia Minicap capillary electrophoresis system
	Serum, urine	Monoclonal protein by Immunofixation Electrophoresis	HYDRASYS 2 Scan Focusing system

Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology
醫院管理局–屯門醫院臨床病理學部
Chemical Pathology Laboratory: 1/F, Pathology Block, Tuen Mun Hospital, 23 Tsing Chung Koon Road, N.T., H.K.
香港新界青松觀路 23 號屯門醫院病理學大樓一樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations listed in the scope below.			
Chemical Pathology (cont'd)	**Special Chemistry**		
	Serum	Active Vitamin B12 by Immunoassay (Chemiluminescent Label)	Abbott Alinity i system Active Vitamin B12 assay
		Alpha-1-antitrypsin by Immunoturbidimetry	Abbott Architect c8000 system Alpha-1-antitrypsin assay
		Ceruloplasmin by Immunoturbidimetry	Abbott Architect c8000 system Ceruloplasmin assay
		Cryoglobulin by Manual method	Method as documented in LPTC2702
	Stool	Faecal Haemoglobin by Immunochemical method	Alfresa NS Prime Analyser
	Serum	Folate by Immunoassay (Chemiluminescent Label)	Abbott Alinity i system Folate assay
		Haptoglobin by Immunoturbidimetry	Abbott Architect c8000 system Haptoglobin assay
	Urine	Indican by Obermayer test	Method as documented in LPTC2509
	Serum	Indocyanine Green Clearance by Spectrophotometry	Hitachi U-3900H Spectrophotometer
	Urine	Porphobilinogen by Column test	Hitachi U-3900H Spectrophotometer

Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology
醫院管理局–屯門醫院臨床病理學部
Chemical Pathology Laboratory: 1/F, Pathology Block, Tuen Mun Hospital, 23 Tsing Chung Koon Road, N.T., H.K.
香港新界青松觀路 23 號屯門醫院病理學大樓一樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations listed in the scope below.			
Chemical Pathology (cont'd)	**Special Chemistry** (cont'd)		
	Urine (cont'd)	Porphyrins by	
		Fluorometry	Method as documented in LPTC2514
	Serum	Thyroglobulin by	
		Immunoassay (Chemiluminescent Label)	Siemens Immulite 2000XPi system Thyroglobulin assay
	CSF	Xanthochromia by	
		Spectrophotometry	Hitachi U-3900H Spectrophotometer
	Toxicology		
	Urine	Drug Screening by	
		Liquid chromatography-mass spectrometry	Method as documented in LPTC4709 using WATERS UPLC-Xevo G2-XS QTOF Mass Spectrometry system
		Cyanides by	
		Merckoquant cyanide test strips	Method as documented in LPTC4410
		Methanol by	
		Chromotropic acid test	Method as documented in LPTC4411
	Urine, gastric lavage, scene residues	Paraquat, diquat by	
		Dithionite test	Method as documented in LPTC4406

Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology
醫院管理局–屯門醫院臨床病理學部
Chemical Pathology Laboratory: 1/F, Pathology Block, Tuen Mun Hospital, 23 Tsing Chung Koon Road, N.T., H.K.
香港新界青松觀路 23 號屯門醫院病理學大樓一樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations listed in the scope below.			
Chemical Pathology (cont'd)	**Tumour Markers**		
	Serum	CA 125 by Immunoassay (Chemiluminescent Label)	Abbott Architect i2000 system Cancer Antigen 125 assay
		CA 19-9 Immunoassay (Chemiluminescent Label)	Abbott Architect i2000 system Carbohydrate Antigen 19-9 assay
	Urinalysis		
	Urine	Billirubin by Dipstick method	Roche Combur 10 Test Method as documented in LPTC2502
		Blood (Erythrocyte / Haemoglobin) and Haemoglobin by Dipstick method	Roche Combur 10 Test Method as documented in LPTC2503
		Glucose by Dipstick method	Roche Combur 10 Test Method as documented in LPTC2518
		Ketone bodies by Dipstick method	Roche Combur 10 Test Method as documented in LPTC2510
		Myoglobin by Immunoassay (Chemiluminescent Label)	Abbottt Alinity i system STAT Myoglobin assay
		Urobilinogen by Ehrlich's aldehyde reagent	Method as documented in LPTC2517

Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology
醫院管理局–屯門醫院臨床病理學部
Chemical Pathology Laboratory: 1/F, Pathology Block, Tuen Mun Hospital, 23 Tsing Chung Koon Road, N.T., H.K.
香港新界青松觀路 23 號屯門醫院病理學大樓一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed in the scope below.			
Immunology	**Autoantibodies**		
	Serum	Anti-Thyroglobulin Antibody by	
		Immunoassay (Chemiluminescent Label)	Siemens Immulite 2000 XPi system Anti-Thyroglobulin Antibody assay
	Immunochemistry		
	Serum	Complement C3 by	
		Immunoturbidimetry	Abbott Architect c8000 system Complement C3 assay
		Complement C4 by	
		Immunoturbidimetry	Abbott Architect c8000 system Complement C4 assay
		Immunoglobulin A by	
		Immunoturbidimetry	Abbott Architect c8000 system Immunoglobulin A assay
		Immunoglobulin G by	
		Immunoturbidimetry	Abbott Architect c8000 system Immunoglobulin G assay
		Immunoglobulin M by	
		Immunoturbidimetry	Abbott Architect c8000 system Immunoglobulin M assay

Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology
醫院管理局–屯門醫院臨床病理學部
Microbiology Laboratory: 2/F, Pathology Block, Tuen Mun Hospital, 23 Tsing Chung Koon Road, N.T., H.K.
香港新界青松觀路 23 號屯門醫院病理學大樓二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection	**Bacteriology – Culture and sensitivity and/or gram microscopy**		
	Blood Culture	Culture and antimicrobial susceptibility tests for pathogens by Aerobic and anaerobic broth culture	Method as documented in LP TM06 14
	CSF	Microscopy for - Cell count by counting chamber - Microorganisms by Gram stain - Encapsulated yeast by Nigrosin Stain solution	Method as documented in LP TM06 15
		Culture and antimicrobial susceptibility tests for pathogens by Aerobic and CO_2 culture	Method as documented in LP TM06 15
	Enteric samples (including stool and rectal swab)	Microscopy for - RBC and WBC	Method as documented in LP TM06 09
		Culture and antimicrobial susceptibility tests for enteric pathogens by Aerobic, anaerobic and microaerophilic culture	Method as documented in LP TM06 09
	Rectal swab, stool, urine, wound swab and respiratory specimens	Culture and antimicrobial susceptibility for Carbapenem Resistant Enterobacteriaceae by Aerobic culture	Method as documented in LP TM06 80

Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology
醫院管理局–屯門醫院臨床病理學部
Microbiology Laboratory: 2/F, Pathology Block, Tuen Mun Hospital, 23 Tsing Chung Koon Road, N.T., H.K.
香港新界青松觀路 23 號屯門醫院病理學大樓二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Bacteriology – Culture and sensitivity and/or gram microscopy** (cont'd)		
	Genital samples (including HVS, endocervical swab, urethral swab, etc.)	Microscopy for cell morphology and microorganisms by Gram stain	Method as documented in LP TM06 05
		Culture and antimicrobial susceptibility tests for pathogens by Aerobic and CO_2 culture	Method as documented in LP TM06 05
		Culture and antimicrobial susceptibility tests for *Neisseria gonorrhoeae* by CO_2 culture	Method as documented in LP TM06 05
	High vaginal-rectal swab	Culture and antimicrobial susceptibility for *Streptococcus* Group B by Aerobic culture	Method as documented in LP TM06 78
	Miscellaneous samples (body fluid, dialysate, pus, swab, tissue, etc.)	Microscopy for cell morphology and microorganisms by Gram stain	Method as documented in LP TM06 01 and LP TM06 04
		Cell count (body fluid) by Counting chamber	Method as documented in LP TM06 04
		Culture and antimicrobial susceptibility tests for pathogens by Aerobic, CO_2 and anaerobic culture	Method as documented in LP TM06 01 and LP TM06 04
	Eye swab	Culture and antimicrobial susceptibility tests for *Neisseria gonorrhoeae* by CO_2 culture	Method as documented in LP TM06 01

Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology
醫院管理局–屯門醫院臨床病理學部
Microbiology Laboratory: 2/F, Pathology Block, Tuen Mun Hospital, 23 Tsing Chung Koon Road, N.T., H.K.
香港新界青松觀路 23 號屯門醫院病理學大樓二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Bacteriology – Culture and sensitivity and/or gram microscopy** (cont'd)		
	Lower respiratory tract samples (including sputum, bronchial aspirate, bronchoalveolar lavage, tracheal aspirate, etc.)	Microscopy for cell morphology and microorganisms by Gram stain	Method as documented in LP TM06 02
		Culture and antimicrobial susceptibility tests for respiratory tract pathogens by Aerobic and CO_2 culture	Method as documented in LP TM06 02
	Bronchoalveolar lavage and Protected bronchial Brush	Microscopy for cell morphology and microorganisms by Gram stain	Method as documented in LP TM06 02
		Quantitative Culture and antimicrobial susceptibility tests for respiratory tract pathogens by Aerobic and CO_2 culture	Method as documented in LP TM06 02
	Upper respiratory tract samples (including throat swab, nasal swab, etc.)	Culture and antimicrobial susceptibility tests for respiratory tract pathogens by Aerobic and CO_2 culture	Method as documented in LP TM06 01
	Nasopharyngeal swab and pernasal swab	Culture for *Bordetella pertussis* and *Bordetella parapertussis* by Aerobic culture	Method as documented in LP TM06 01
	Urine	Culture and antimicrobial susceptibility tests for pathogens by - Paper-strip method - Standard loop method	Method as documented in LP TM06 06 Method as documented in LP TM06 06
	Rectal swab, stool, urine	Culture and antimicrobial susceptibility for Vancomycin Resistant Enterococcus (VRE)	Method as documented in LP TM06 81 and LP TM06 91

Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology
醫院管理局–屯門醫院臨床病理學部
Microbiology Laboratory: 2/F, Pathology Block, Tuen Mun Hospital, 23 Tsing Chung Koon Road, N.T., H.K.
香港新界青松觀路 23 號屯門醫院病理學大樓二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Bacteriology – Culture and sensitivity and/or gram microscopy** (cont'd)		
	Nasal swab and other samples (including axilla swab, sputum, wound swab, etc.)	Culture and antimicrobial susceptibility for Methicillin Resistant *Staphylococcus aureus*	Method as documented in LP TM06 03
	Throat swab, rectal swab, sputum, urine, wound swab, etc.	Culture and antimicrobial susceptibility for Multidrug Resistant *Acinetobacter*	Method as documented in LP TM06 89
	Clinical isolates	Identification of clinical isolates by - Conventional biochemical tests - MALDI-TOF mass spectrometry	 Method as documented in LP TM03 02A to D, LP TM09 01 Method as documented in LP TM06 100 using BD Bruker MALDI Biotyper
		Detection and differentiation of Carbapenemases (KPC, OXA-48, VIM, IMP and NDM) produced from Enterobacteriaceae by Immunochromatographic assay	NG-Test CARBA 5 Method as documented in LP TM06 125
	Bacteriology – Serology Urine	Detection of *Legionella pneumophila serogroup* 1 antigen in urine by Immunochromatographic assay	Binax NOW *Legionella* Urinary Antigen Test Method as documented in LP TM06 57
	Serum	Brucella antibody by Agglutination test	Method as documented in LP TM06 28
		Rickettsial antibody by Weil-Felix agglutination test	Method as documented in LP TM06 27
		Salmonella antibody by Widal agglutination test	Method as documented in LP TM06 26
		Anti-Streptolysin O antibody by Latex agglutination assay	Biokit Rheumajet ASO Method as documented in LP TM06 105

Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology
醫院管理局–屯門醫院臨床病理學部
Microbiology Laboratory: 2/F, Pathology Block, Tuen Mun Hospital, 23 Tsing Chung Koon Road, N.T., H.K.
香港新界青松觀路 23 號屯門醫院病理學大樓二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Mycobacteriology - Microscopy**		
	Blood, CSF, Respiratory tract samples, miscellaneous samples urine, etc.)	Microscopy for acid fast bacilli (AFB) by - Auramine O fluorescent stain - Ziehl-Neelsen stain	 Method as documented in LP TM06 17 Method as documented in LP TM06 17
	Mycobacteriology - Culture		
	Blood, CSF, Respiratory tract samples, miscellaneous samples urine, etc.)	Culture for acid fast bacilli (AFB) by - Conventional method - Automated culture method	 Method as documented in LP TM06 17 Method as documented in LP TM06 17
	Culture isolates from solid and liquid culture Media	*Mycobacterium tuberculosis* complex specific MPB64 antigen detection by Immunochromatographic assay	 Capilia TB-Neo antigen test kit Method as documented in LP TM06 108
	Mycology – Culture, ID and Serology		
	Dermatological samples (including hair, nail, skin, tissue, etc.)	Microscopy of fungal element and yeasts by KOH preparation	 Method as documented in LP TM06 16
		Culture for dermatophytes, pathogenic mould and yeasts by Conventional method	 Method as documented in LP TM06 16
	Blood Culture	Culture for fungi by Automated blood culture method	 Method as documented in LP TM06 14
	All samples	Microscopy of fungal element and yeasts by Gram stain	 Method as documented in LP TM06 04
		Culture for fungi by Conventional method	 Method as documented in LP TM06 02, LP TM06 04 and LP TM06 06

Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology
醫院管理局–屯門醫院臨床病理學部
Microbiology Laboratory: 2/F, Pathology Block, Tuen Mun Hospital, 23 Tsing Chung Koon Road, N.T., H.K.
香港新界青松觀路 23 號屯門醫院病理學大樓二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Mycology – Culture, ID and Serology** (cont'd)		
	Fungal isolates	Identification of dermatophytes, pathogenic mould and yeasts by	
		- Conventional identification tests	Method as documented in LP TM06 16
		- MALDI-TOF mass spectrometry	Method as documented in LP TM06 100 using BD Bruker MALDI Biotyper
	CSF, serum	*Cryptococcal* antigen by	
		- Qualitative latex agglutination test	Meridian Bioscience Cryptococcal Antigen Latex Agglutination System (CALAS) Method as documented in LP TM06 15
		- Quantitative latex agglutination test	
	Miscellaneous		
	Urine	Pregnancy test for human chorionic gonadotrophin (hCG), qualitative by Immunochromatographic assay	RightSign Pregnancy test kit Method as documented in LP TM06 08
	Serum	Procalcitonin by Enzyme linked fluorescent assay (ELFA)	bioMerieux VIDAS BRAHMS PCT assay
	Stool, body fluid	Microscopy for chyle and fat globules by Oil Red O Staining	Method as documented in LP TM06 09, LP TM06 07
	Parasitology – Microscopy and Staining		
	Stool	Microscopy for enteric parasites by Concentration method	Method as documented in LP TM06 10
		Microscopy for Amoeba by	
		- Direct wet smear	Method as documented in LP TM06 10
		- Concentration method	Method as documented in LP TM06 11
		Microscopy for fecal protozoa by	
		- Wheatly's trichrome stain	Method as documented in LP TM06 12
		- Modified Kinyoun's acid fast stain	Method as documented in LP TM06 13
	Skin, worm, worm Segment	Macroscopic and microscopic examination for parasite	Method as documented in LP TM06 69 Method as documented in LP TM06 10

Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology
醫院管理局–屯門醫院臨床病理學部
Microbiology Laboratory: 2/F, Pathology Block, Tuen Mun Hospital, 23 Tsing Chung Koon Road, N.T., H.K.
香港新界青松觀路 23 號屯門醫院病理學大樓二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Urinalysis and Urine Microscopy** Urine	Urine chemical test by Automated urine analyser	Method as documented in LP TM06 07 Sysmex UC-3500 Fully-Automated Urine Chemistry Analyser
		Urine microscopy for - Quantitative RBC and WBC count by counting chamber - Semi-quantitative count for other formed elements (including cast, crystal, etc.) by fixed volume microtitre plate method	Method as documented in LP TM06 07

Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology
醫院管理局–屯門醫院臨床病理學部
Microbiology Laboratory: 2/F, Pathology Block, Tuen Mun Hospital, 23 Tsing Chung Koon Road, N.T., H.K.
香港新界青松觀路 23 號屯門醫院病理學大樓二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Virology – Serology**		
	Nasopharyngeal samples	Influenza A virus and Influenza B virus antigen by	
		Rapid immunochromatographic assay	ESPLINE Influenza A & B-N Test BD Veritor System Method as documented in LP TM06 90
	Serum	Hepatitis B virus surface antibody Anti-HBs (Quantitative) by	
		Immunoassay (Chemiluminescent label)	Abbott Architect i2000 system Anti-HBs Assay Cobas e801 Analyser Elecsys Anti-HBs II Assay

Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology
醫院管理局–屯門醫院臨床病理學部
Microbiology Laboratory: 2/F, Pathology Block, Tuen Mun Hospital, 23 Tsing Chung Koon Road, N.T., H.K.
香港新界青松觀路 23 號屯門醫院病理學大樓二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Virology – Serology** Serum	Hepatitis B virus core antibody (Anti-HBc) by Immunoassay (Chemiluminescent label)	Abbott Architect i2000 system Anti-HBc Assay Cobas e801 Analyser Elecsys Anti-HBc II Assay
		Hepatitis B virus surface antigen (HBsAg) by Immunoassay (Chemiluminescent label)	Abbott Architect i2000 system HBsAg qualitative Assay Abbott Architect i2000 system HBsAg Confirmatory Assay Cobas e801 Analyser Elecsys HBsAg II Assay Cobas e801 Analyser Elecsys HBsAg II Auto Confirm Assay
		Hepatitis C virus antibody by Immunoassay (Chemiluminescent label)	Abbott Architect i2000 system Anti-HCV Assay Cobas e801 Analyser Elecsys Anti-HCV II Assay
		SARS-CoV-2 IgG antibody (Quantitative) by Immunoassay (Chemiluminescent Label)	Abbott Alinity i system SARS-CoV2 IgG QT Assay
		Varicella zoster virus IgG antibody by Enzyme linked fluorescent assay (ELFA)	bioMerieux VIDAS Varicella-Zoster IgG Assay

Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology
醫院管理局–屯門醫院臨床病理學部
Molecular Biology Laboratory: 2/F, Pathology Block, Tuen Mun Hospital, 23 Tsing Chung Koon Road, N.T., H.K.
香港新界青松觀路 23 號屯門醫院病理學大樓二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics	**Molecular Genetics (Anatomical Pathology)** Histological and cytological specimens	Epstein-Barr Virus Early RNA (EBER RNA) by In-situ Hybridization (ISH)	Method as documented in LP TA81 07 INFORM EBER Probe in conjunction with ISH iVIEWBlue Detection kit on Ventana BenchMark ULTRA
		Detection of *Mycobacterium tuberculosis* complex and non-tuberculosis *mycobacteria* by Polymerase Chain Reaction and Sanger Sequencing (Target region: IS6110 and 16S – 23S rRNA ITS)	Nucleic acid extraction as documented in LP TA81 02 Nucleic acid amplification and detection as documented in LP TA81 04 using ABI 3500 Genetic Analyser
		T cell receptor beta chain and gamma chain gene rearrangement by Polymerase chain reaction (Target region: T-cell receptor-γ and T-cell receptor-β locus)	Nucleic acid extraction as documented in LP TA81 02 Nucleic acid amplification and detection as documented in LP TA81 05
		Immunoglobulin heavy chain rearrangement by Polymerase chain reaction (Target region: FR2 and FR3 regions)	Nucleic acid extraction as documented in LP TA81 02 Nucleic acid amplification and detection as documented in LP TA81 06
		Kappa and Lambda mRNA by In-situ Hybridization (ISH)	Method as documented in LP TA81 07
	FFPE tissue sections and liquid-based cytology specimens	HPV detection and typing by Polymerase Chain Reaction and Sanger Sequencing (Target region: L1 gene)	Nucleic acid extraction as documented in LP TA81 02 Nucleic acid amplification and detection as documented in LP TA81 03 using ABI 3500 Genetic Analyser

Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology
醫院管理局–屯門醫院臨床病理學部
Molecular Biology Laboratory: 2/F, Pathology Block, Tuen Mun Hospital, 23 Tsing Chung Koon Road, N.T., H.K.
香港新界青松觀路 23 號屯門醫院病理學大樓二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics (cont'd)	**Molecular Genetics (Anatomical Pathology)** (cont'd)		
	EDTA Blood	Epidermal Growth Factor Receptor (EGFR) Gene Exon 18-21 mutations by Real-time Polymerase Chain Reaction	Cobas EGFR Mutation Test v2 Nucleic acid extraction by cobas cfDNA Sample Preparation Kit Nuclei acid amplification and detection by cobas z 480
	Histological and cytological specimens	Epidermal Growth Factor Receptor (EGFR) Gene Exon 18-21 mutations by Real-time Polymerase Chain Reaction	Cobas EGFR Mutation Test v2 Nucleic acid extraction by cobas DNA Sample Preparation Kit Nuclei acid amplification and detection by cobas z 480
		KRAS Gene Mutations in Codon 12, 13 and 61 by Real-time Polymerase Chain Reaction	Cobas KRAS Mutation Test Nucleic acid extraction by cobas DNA Sample Preparation Kit Nuclei acid amplification and detection by cobas z 480
		KRAS Gene Exon 2-4 Mutations by Polymerase Chain Reaction and Sanger sequencing	Nucleic acid extraction, amplification and detection as documented in LP TA81 11 using ABI 3500 Genetic Analyser
		NRAS Gene Exon 2-4 Mutations by Polymerase Chain Reaction and Sanger sequencing	Nucleic acid extraction, amplification and detection as documented in LP TA81 11 using ABI 3500 Genetic Analyser
		Amplification of erb-b2 receptor tyrosine kinase 2 (ERBB2, HER2) by Fluorescence in-situ hybridisation	PathVysion HER-2 DNA Probe Kit Slide preparation and staining as documented in LP TA81 10

Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology
醫院管理局–屯門醫院臨床病理學部
Molecular Biology Laboratory: 2/F, Pathology Block, Tuen Mun Hospital, 23 Tsing Chung Koon Road, N.T., H.K.
香港新界青松觀路 23 號屯門醫院病理學大樓二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics (cont'd)	**Molecular Genetics (Haematology)** EDTA Blood / bone marrow	BCR/ABL1 t(9;22) translocation - p210 BCR/ABL1 transcript - p190 BCR/ABL1 transcript by Reverse transcription – Polymerase chain reaction, qualitative	Nucleic acid extraction as documented in LP TH15 03 Nucleic acid amplification and detection as documented in LP TH15 07
		PML/RARA t(15;17) translocation by Reverse transcription – Polymerase chain reaction, qualitative	Nucleic acid extraction as documented in LP TH15 03 Nucleic acid amplification and detection as documented in LP TH15 09
		JAK2 V617F Mutation by Allele-specific polymerase chain reaction	Nucleic acid extraction as documented in LP TH15 05 Nucleic acid amplification and detection as documented in LP TH15 10
		T cell receptor beta chain and gamma chain gene rearrangement by Polymerase chain reaction (Target region: T-cell receptor-γ and T-cell receptor-β locus)	Nucleic acid extraction as documented in LP TH15 05 Nucleic acid amplification and detection as documented in LP TA81 05
		Immunoglobulin heavy chain rearrangement by Polymerase chain reaction (Target region: FR2 and FR3 regions)	Nucleic acid extraction as documented in LP TH15 05 Nucleic acid amplification and detection as documented in LP TA81 06

Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology
醫院管理局–屯門醫院臨床病理學部
Molecular Biology Laboratory: 2/F, Pathology Block, Tuen Mun Hospital, 23 Tsing Chung Koon Road, N.T., H.K.
香港新界青松觀路 23 號屯門醫院病理學大樓二樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics (cont'd)	**Molecular Genetics (Microbiology)**		
	Clinical isolates	Identification of bacterial isolates by 16S rRNA gene sequencing	Method as documented in LP TM06 46 using ABI3500 Genetic Analyser
		Identification of fungal isolates by D2 region of the LSU rRNA gene sequencing	Method as documented in LP TM06 46 using ABI3500 Genetic Analyser
		Identification of carbapenemase-producing Enterobacteriaceae by Real-time Polymerase Chain Reaction, qualitative (Target gene: IPM-1, KPC, NDM, OXA-48, VIM)	Cepheid Xpert Carba-R, Nucleic acid amplification and detection by Cepheid GeneXpert DX system
	Nasal swab	Methicillin resistant *Staphylococcus aureus* detection by Real-time Polymerase Chain Reaction, qualitative (Target region: proprietary)	Cepheid Xpert MRSA NxG Test Nucleic acid amplification and detection by Cepheid GeneXpert DX system
	Urine and Genital samples (including endocervical swab and urethral swab, etc.)	*Chlamydia trachomatis* – detection by Real- time Polymerase Chain Reaction, qualitative (Target region: Proprietary)	Cepheid Xpert CT/NG Test Nucleic acid amplification and detection by Cepheid GeneXpert DX system

Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology
醫院管理局–屯門醫院臨床病理學部
Molecular Biology Laboratory: 2/F, Pathology Block, Tuen Mun Hospital, 23 Tsing Chung Koon Road, N.T., H.K.
香港新界青松觀路 23 號屯門醫院病理學大樓二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics (cont'd)	**Molecular Genetics (Microbiology)** (cont'd)		
	EDTA Blood	Hepatitis B virus – detection by Real-time Polymerase Chain Reaction, quantitative (Target region: pre-core and core region)	cobas HBV Test Nucleic acid extraction by Cobas x480 Nucleic acid amplification and detection by Cobas z480
		Hepatitis C Virus RNA - detection by Real-time Polymerase Chain Reaction, quantitative (Target region: proprietary)	cobas HCV Test Nucleic acid extraction by Cobas x480 Nucleic acid amplification by Cobas z480
		Hepatitis C Virus Genotyping – detection by Real-time Polymerase Chain Reaction, quantitative (Target region: proprietary)	cobas HCV GT Nucleic acid extraction by Cobas x480 Nucleic acid amplification by Cobas z480
	Respiratory specimens	*Bordetella pertussis* – detection by Real-time Polymerase Chain Reaction, qualitative (Target region: IS481)	Nucleic acid extraction by NucliSENS easyMAG automated nucleic acid extraction system Nucleic acid amplification and detection as documented in LP TM06 49 using ABI 7900HT
		Bordetella parapertussis – detection by Real-time Polymerase Chain Reaction, qualitative (Target region: IS1001)	Nucleic acid extraction by NucliSENS easyMAG automated nucleic acid extraction system Nucleic acid amplification and detection as documented in LP TM06 49 using ABI 7900HT
		Chlamydophila pneumoniae –detection by Real-time Polymerase Chain Reaction, qualitative (Target region: Major Outer Membrane Protein)	Nucleic acid extraction by NucliSENS easyMAG automated nucleic acid extraction system Nucleic acid amplification and detection as documented in LP TM06 58 using ABI 7900HT

Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology
醫院管理局–屯門醫院臨床病理學部
Molecular Biology Laboratory: 2/F, Pathology Block, Tuen Mun Hospital, 23 Tsing Chung Koon Road, N.T., H.K.
香港新界青松觀路 23 號屯門醫院病理學大樓二樓

MEDICAL TESTING			
DISCIPLINE **專科範疇**	**TEST AREA OR SAMPLE TYPE** **測試範圍或樣本種類**	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** **特定測試或量度的特性**	**METHOD OR TECHNIQUE USED** **方法或應用技術**
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics (cont'd)	**Molecular Genetics (Microbiology)** (cont'd) Respiratory specimens (cont'd)	Human Metapneumovirus – detection by Real-time Polymerase Chain Reaction, qualitative (Target region: fusion protein gene)	Nucleic acid extraction by NucliSENS easyMAG automated nucleic acid extraction system Nucleic acid amplification and detection as documented in LP TM06 92 using LightCycler 480
		Influenza A virus – detection by Real-time Polymerase Chain Reaction, qualitative (Target region: M gene)	Nucleic acid extraction by NucliSENS easyMAG automated nucleic acid extraction system Nucleic acid amplification and detection as documented in LP TM06 83 using LightCycler 2.0
		Influenza A virus (Swine H1 subtype) – detection by Real-time Polymerase Chain Reaction, qualitative (Target region: HA gene)	Nucleic acid extraction by NucliSENS easyMAG automated nucleic acid extraction system Nucleic acid amplification and detection as documented in LP TM06 85 using LightCycler 2.0
		Influenza A virus (Seasonal H1 subtype) – detection by Real-time Polymerase Chain Reaction, qualitative (Target region: HA gene)	Nucleic acid extraction by NucliSENS easyMAG automated nucleic acid extraction system Nucleic acid amplification and detection as documented in LP TM06 64 using LightCycler 2.0
		Influenza A virus (Seasonal H3 subtype) – detection by Real-time Polymerase Chain Reaction, qualitative (Target region: HA gene)	Nucleic acid extraction by NucliSENS easyMAG automated nucleic acid extraction system Nucleic acid amplification and detection as documented in LP TM06 84 using LightCycler 2.0
		Influenza A virus (H5 subtype) – detection by Real-time Polymerase Chain Reaction, qualitative (Target region: HA gene)	Nucleic acid extraction by NucliSENS easyMAG automated nucleic acid extraction system Nucleic acid amplification and detection as documented in LP TM06 86 using LightCycler 2.0
		Influenza A virus (H7 subtype) – detection by Real-time Polymerase Chain Reaction, qualitative (Target region: HA gene)	Nucleic acid extraction by NucliSENS easyMAG automated nucleic acid extraction system Nucleic acid amplification and detection as documented in LP TM06 87 using LightCycler 2.0

Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology
醫院管理局–屯門醫院臨床病理學部
Molecular Biology Laboratory: 2/F, Pathology Block, Tuen Mun Hospital, 23 Tsing Chung Koon Road, N.T., H.K.
香港新界青松觀路 23 號屯門醫院病理學大樓二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics (cont'd)	**Molecular Genetics (Microbiology)** (cont'd) Respiratory specimens (cont'd)	Influenza A virus, Influenza B virus and, Respiratory syncytial virus – detection by Real-time Polymerase Chain Reaction, qualitative (Target region: Influenza virus: M, PB2 and PA gene; Influenza B virus: M and NS gene; RSV: RSV A and RSV B nucleocapsid gene)	Cepheid Xpert Xpress Flu/RSV Nucleic acid amplification and detection by Cepheid GeneXpert system
		SARS Coronavirus-2, Influenza A virus, Influenza B virus and Respiratory syncytial virus – detection by Real-time Polymerase Chain Reaction, Qualitative (Target region: Influenza virus: M, PB2 and PA gene; Influenza B virus: M and NS gene; RSV: RSV A and RSV B nucleocapsid gene; SARS-CoV-2 E gene and N2 gene)	Cepheid Xpert Xpress SARS-CoV-2/Flu/RSV Nucleic acid amplification and detection by Cepheid GeneXpert system
		Influenza A virus, Influenza B virus, Respiratory syncytial virus, Coronavirus 229E, OC43, NL63 and HKU1, Middle East Respiratory Syndrome Coronavirus (MERS), Severe Acute Respiratory Syndrome Coronavirus (SARS-CoV-2), Parainfluenza virus type 1,2,3 and 4, Human metapneumovirus, Enterovirus/Rhinovirus, Adenovirus, *Bordetella pertussis, Chlamydophila pneumoniae and Mycoplasma pneumoniae* - detection by Polymerase Chain Reaction, qualitative (Target region: proprietary)	FilmArray Respiratory Panel 2.1 *plus* Nucleic acid amplification and detection by BioFire FilmArray Torch system

Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology
醫院管理局–屯門醫院臨床病理學部
Molecular Biology Laboratory: 2/F, Pathology Block, Tuen Mun Hospital, 23 Tsing Chung Koon Road, N.T., H.K.
香港新界青松觀路 23 號屯門醫院病理學大樓二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics (cont'd)	**Molecular Genetics (Microbiology)** (cont'd) Respiratory specimens (cont'd)	*Legionella pneumophila* – detection by Real-time Polymerase Chain Reaction, qualitative (Target region: MIP gene)	Nucleic acid extraction by NucliSENS easyMAG automated nucleic acid extraction system Nucleic acid amplification and detection as documented in LP TM06 60 using ABI 7900HT
		Mycobacterium tuberculosis – detection by Real-time Polymerase Chain Reaction, qualitative (Target region: ropB gene)	Cepheid Xpert MTB/RIF, Nucleic acid amplification and detection by Cepheid GeneXpert Dx system
		Mycoplasma pneumoniae – detection by Real-time Polymerase Chain Reaction, qualitative (Target region: P1 gene)	Nucleic acid extraction by NucliSENS easyMAG automated nucleic acid extraction system Nucleic acid amplification and detection as documented in LP TM06 59 using ABI 7900HT
		SARS-Coronavirus – detection by Real-time Polymerase Chain Reaction, qualitative (Target region: ORF1ab gene)	Nucleic acid extraction by NucliSENS easyMAG automated nucleic acid extraction system Nucleic acid amplification and detection as documented in LP TM06 40 using ABI 7900HT
		(Target region: ORF1ab gene)	Hologic Panther Fusion SARS-CoV-2 Assay Nucleic acid amplification and detection by Hologic Panther Fusion
		(Target region: E gene)	Nucleic acid extraction by MagNA Pure 96 and eMAG automated nucleic acid extraction system Nucleic acid amplification and detection as documented in LP TM06 116 using LightCycler 480
		(Target region: E gene and N2 gene)	Cepheid Xpert Xpress SARS-CoV-2 Nucleic acid amplification and detection by Cepheid GeneXpert system and GeneXpert Infinity system

Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology
醫院管理局–屯門醫院臨床病理學部
Molecular Biology Laboratory: 2/F, Pathology Block, Tuen Mun Hospital, 23 Tsing Chung Koon Road, N.T., H.K.
香港新界青松觀路 23 號屯門醫院病理學大樓二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics (cont'd)	**Molecular Genetics (Microbiology)** (cont'd)		
	Respiratory specimens (cont'd)	SARS-Coronavirus 2 – detection by Real-time Polymerase Chain Reaction, Qualitative (cont'd) (Target region: E gene and N gene)	Nucleic acid extraction by MagNA Pure 96 and eMAG automated nucleic acid extraction system Nucleic acid amplification and detection as documented in LP TM06 123 using LightCycler 480
	Blister/Vesicular swab, vesicular fluid	Varicella Zoster Virus – detection by Real-time Polymerase Chain Reaction, Quantitative (Target region: proprietary)	Nucleic acid extraction by NucliSENS easyMAG automated nucleic acid extraction system Nucleic acid amplification and detection as documented in LP TM06 114 using LightCycler 480
	Stool	*Clostridium difficile* – detection by Real-time Polymerase Chain Reaction, qualitative (Target region: tcdB, cdt and tcdC gene)	Cepheid Xpert C. difficile Assay Nucleic acid amplification and detection by Cepheid GeneXpert system
		Norovirus – detection by Real-time Polymerase Chain Reaction, qualitative (Target region: ORF1 – ORF2 junction)	Nucleic acid extraction by NucliSENS easyMAG automated nucleic acid extraction system Nucleic acid amplification and detection as documented in LP TM06 54 using ABI 7000 and ABI 7900HT in LP TM06 115 using LightCycler 480
		Rotavirus – detection by Real-time Polymerase Chain Reaction, qualitative (Target region: non-structural protein gene, NSP3) (Target region: non-structural protein gene, NSP5)	Nucleic acid extraction by NucliSENS easyMAG automated nucleic acid extraction system Nucleic acid amplification and detection as documented in LP TM06 62 using ABI 7900HT Nucleic acid amplification and detection as documented in LP TM06 115 using LightCycler 480

Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology
醫院管理局–屯門醫院臨床病理學部
Molecular Biology Laboratory: 2/F, Pathology Block, Tuen Mun Hospital, 23 Tsing Chung Koon Road, N.T., H.K.
香港新界青松觀路 23 號屯門醫院病理學大樓二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics (cont'd)	**Molecular Genetics (Microbiology)** (cont'd) CSF	Meningitis - Encephalitis pathogens – molecular detection of *Escherichia coli* K1, *Haemophilus influenzae*, *Listeria monocytogenes*, *Neisseria meningitidis*, *Streptococcus agalactiae*, *Streptococcus pneumoniae*, Cytomegalovirus (CMV), Enterovirus, *Herpes simplex* virus 1 (HSV-1), *Herpes simplex virus* 2 (HSV-2), Human herpes Virus 6 (HHV-6), Human parechovirus, *Varicella zoster* virus (VZV) and *Cryptococcus neoformans/gattii)* by Multiplex polymerase chain reaction (Target region: proprietary)	FilmArray Meningitis-Encephalitis Panel Nucleic acid amplification and detection by Biofire FilmArray Torch system

Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology
醫院管理局–屯門醫院臨床病理學部
Haematology & Serology Laboratory and Blood Bank: G/F, Pathology Block, Tuen Mun Hospital, 23 Tsing Chung Koon Road, N.T., H.K.
香港新界青松觀路 23 號屯門醫院病理學大樓地下

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology	**Blood Bank – General**		
	EDTA whole blood	ABO and Rh(D) typing by Red cell agglutination	Tile and tube method as documented in LPTB0202
		ABO and Rh(D) typing by Red cell agglutination, automated	Automated system: LPTB0220 using Bio-Rad IH-1000
		Antibody screen by - Red cell agglutination, automated - Saline-Indirect antiglobulin test	Automated system: LPTB0202 using Bio-Rad IH-1000 Bio-Rad gel technique as documented in LPTB0219
		Crossmatch by - Computer crossmatch - Immediate spin - NISS Indirect antiglobulin test - LISS Indirect antiglobulin test, manual - LISS Indirect antiglobulin test, automated	 Method as documented in LPTB0107 Method as documented in LPTB0107 Method as documented in LPTB0206 Method as documented in LPTB0206 Automated system: LPTB0220 using Bio-Rad IH-1000
	Blood Bank – Immunohaematology		
	Serum	Cold agglutinin titre	Method as documented in LPTB0214
	EDTA whole blood	Direct agglutination test by Red cell agglutination	 Method as documented in LPTB0204
		Red cell phenotyping by Direct agglutination Indirect Antiglobulin test	 Method as documented in LPTB0213
	Blood Bank – Special		
	EDTA whole blood and serum	Antibody identification by - NISS Indirect antiglobulin test - LISS Indirect antiglobulin test - LISS Indirect antiglobulin test, automated	 Method as documented in LPTB0205 Method as documented in LPTB0219 Automated system: LPTB0220 using Bio-Rad IH-1000
	EDTA whole blood, serum and donor unit	Transfusion reaction, including - ABO and Rh(D) typing - Red cell antigen phenotyping - Antibody identification - Crossmatching	Method as documented in LPTB0218

Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology
醫院管理局–屯門醫院臨床病理學部
Haematology & Serology Laboratory and Blood Bank: G/F, Pathology Block, Tuen Mun Hospital, 23 Tsing Chung Koon Road, N.T., H.K.
香港新界青松觀路 23 號屯門醫院病理學大樓地下

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology (cont'd)	**Coagulation** Citrate plasma	Coagulation studies including - Prothrombin Time (PT) - Activated partial thromboplastin time (APTT) - Thrombin Time (TT) - Fibrinogen	Automated system: Sysmex CS-5100
		Activated partial thromboplastin time (APTT) by manual method	Method as documented in LPTH0508
		Anti-thrombin activity by Chromogenic assay	Sysmex CS-5100
		D-Dimer by Enzyme linked fluorescent assay (ELFA)	BioMerieux mini Vidas D-Dimer Exclusion II Assay
		Factor assays including - Factor II - Factor V - Factor VII - Factor VIII - Factor IX - Factor X - Factor XI - Factor XII	Automated Coagulation systems: Sysmex CS-5100
		Factor inhibitor screening	Method as documented in LPTH0510 and LPTH0511 using Sysmex CS-5100
		Free Protein S antigen by Photometric method	Sysmex CS-5100
		Lupus Anticoagulant detection by - PT, APTT, TT - Dilute Russells' Viper Venom Time (DRVVT) Screen, confirm and mixing - PTT LA - Staclot LA (PNP)	Method as documented in LPTH0524 and LPTH0526A using Sysmex CS-5100

Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology
醫院管理局–屯門醫院臨床病理學部
Haematology & Serology Laboratory and Blood Bank: G/F, Pathology Block, Tuen Mun Hospital, 23 Tsing Chung Koon Road, N.T., H.K.
香港新界青松觀路 23 號屯門醫院病理學大樓地下

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology (cont'd)	**Coagulation** (cont'd) Citrate plasma (cont'd)	Protein C activity by Chromogenic assay	Sysmex CS-5100
		Prothrombin time (PT) by manual method	Method as documented in LPTH0508
		von Willebrand factor antigen by Turbidimetric method	Sysmex CS-5100
	Haematology – General EDTA whole blood	Complete blood count including - White blood cell count (WBC) - Red blood cell count (RBC) - Haemoglobin (HGB) - Haematocrit (HCT) - Mean corpuscular volume (MCV) - Mean corpuscular haemoglobin (MCH) - Mean corpuscular haemoglobin concentration (MCHC) - Red cell distribution width (RDW) - Platelet count - Mean Platelet Volume (MPV) - Reticulocyte count - WBC differential count	Automated Haematology systems: Beckman Coulter DxH800
	EDTA marrow blood aspirate, clot and trephine biopsy	Bone marrow examination	Specimen preparation and staining as documented in LPTH0414 Marrow smear by May Grunwald - Giemsa and Perl's Prussian Blue stain as documented in LPTH0405 Peripheral blood smear by May Grunwald –Giemsa or Wright –Giemsa stain Cytochemical stain: Method as documented in - Sudan Black (LPTH0708) - Specific esterase of Naphthol AS-D Chloroacetate Esterase (LPTH0703) - Non specific Naphthyl Acetate Esterase (LPTH0706) - Periodic Acid Schiff (LPTH0707)

Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology
醫院管理局–屯門醫院臨床病理學部
Haematology & Serology Laboratory and Blood Bank: G/F, Pathology Block, Tuen Mun Hospital, 23 Tsing Chung Koon Road, N.T., H.K.
香港新界青松觀路 23 號屯門醫院病理學大樓地下

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology (cont'd)	**Haematology – General** (cont'd)		
	EDTA whole blood	Erythrocyte Sedimentation Rate (ESR) by Automated method	Alifax Test 1 Analyser Method as documented in LPTH0416B
		Glucose-6-phosphate dehydrogenase (G6PD) Screening by fluorescence test	Method as documented in LPTH0804
	EDTA whole blood	Haemoglobin Al c (HbAlc) by Turbidimetric Inhibition Immunoassay	Cobas c513 Method as documented in LPTH0811
		Haemoglobin pattern by - High performance liquid chromatography	Bio-Rad Variant II Haemoglobin Analyser
		- Alkaline gel electrophoresis	Interlab G26 Analyser
		- Acid gel electrophoresis	Method as documented in LPTH0617
		Haemoglobin H inclusion bodies by - New Methylene Blue stain	Method as documented in LPTH0610
		- Lateral Flow Chromatographic Immunoassay	i-Lab IC Strip Method as documented in LPTH0618
		Malaria parasite examination by Thick and thin films	Method as documented in LPTH0409
		Peripheral blood smear examination by - May Grunwald Giemsa stain	Elite Tech Autospray stainer Method as documented in LPTH0404A
		Reticulocyte count by Manual method	Method as documented in LPTH0406

Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology
醫院管理局–屯門醫院臨床病理學部
Haematology & Serology Laboratory and Blood Bank: G/F, Pathology Block, Tuen Mun Hospital, 23 Tsing Chung Koon Road, N.T., H.K.
香港新界青松觀路 23 號屯門醫院病理學大樓地下

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology (cont'd)	**Haematology – Miscellaneous**		
	Semen	Microscopy for count, morphology and motility by	
		Conventional method	Method as documented in LPTH0418
	Haematology – Special		
	EDTA whole blood	Kleihauer test by	
		acid elution	Method as documented in LPTH0803
		Monospot test by	
		Latex agglutination	Method as documented in LPTH0904
		Immunophenotyping for haematological disorder by	
		Flow Cytometry	Becton Dickinson FACSLyric Analyser Method as documented in LPTH1020
		Lymphocyte subsets by	
		Flow Cytometry	Becton Dickinson FACSLyric Analyser Method as documented in LPTH1020
		CD34+ cell enumeration by	
		Flow Cytometry	Becton Dickinson FACSLyric Analyser Method as documented in LPTH1020

Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology
醫院管理局–屯門醫院臨床病理學部
Haematology & Serology Laboratory and Blood Bank: G/F, Pathology Block, Tuen Mun Hospital, 23 Tsing Chung Koon Road, N.T., H.K.
香港新界青松觀路 23 號屯門醫院病理學大樓地下

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Immunology	**Autoantibodies** Serum	Anti-cardiolipin antibody (ACL) by Immunoassay (Enzyme-based label)	BioRad EVOLIS Twin Plus system
		Anti - dsDNA antibody by Immunoassay (Enzyme-based label)	Euroimmun I-2P Analyser Method as documented in LPTH0905B
		Anti-extractable nuclear antigen (ENA) Immunoassay (Enzyme-based label)	Euroimmun I-2P Analyser Method as documented in LPTH0910B
		Anti-nuclear antibody (ANA) by Indirect Immunofluorescence Test	Aesku Helios Analyser Method as documented in LPTH0916
		Anti-thyroglobulin antibody (ATG) by Immunoassay (Enzyme-based label)	BioRad EVOLIS Twin Plus system
		Anti-thyroid peroxidase antibody (TPO) by Immunoassay (Enzyme-based label)	BioRad EVOLIS Twin Plus system
		Rheumatoid Factor by Immunoassay (Enzyme-based label)	BioRad EVOLIS Twin Plus system

Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology
醫院管理局–屯門醫院臨床病理學部
Core Laboratory: Department of Clinical Pathology 2/F, Pok Oi Hospital, Au Tau, Yuen Long, N.T., H.K.
香港新界元朗凹頭博愛醫院二樓臨床病理學部

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed in the scope below.			
Chemical Pathology	**Blood gases and Co-oximetry**		
	Heparinized whole blood	Blood Gas include:	
		- pCO_2 by	
		Potentiometry (pCO_2 Sensing Electrode)	Siemens RapidLab 1265 system
		- pH by	
		Potentiometry (Ion-Selective Electrode)	Siemens RapidLab 1265 system
		- pO_2 by	
		Polarography (Oxygen Sensing Amperometric Electrode)	Siemens RapidLab 1265 system
		Carboxyhaemoglobin by	
		Co-oximetry	Siemens RapidLab 1265 system
		Methaemoglobin by	
		Co-oximetry	Siemens RapidLab 1265 system
	General Chemistry		
	Plasma	Alanine Aminotransferase (ALT) by	
		Spectrophotometry	Roche Diagnostics cobas 8000 system, ALTPM (IFCC) assay
		Albumin by	
		Spectrophotometry	Roche Diagnostics cobas 8000 system, ALB BCG assay
		Alkaline Phosphatase (ALP) by	
		Spectrophotometry	Roche Diagnostics cobas 8000 system, ALP2 (IFCC) assay
	Fluid, plasma	Amylase by	
		Spectrophotometry	Roche Diagnostics cobas 8000 system, AMYL2 (IFCC) assay
	Plasma	Anion Gap by	
		Calculation	Calculated from plasma, sodium, chloride and bicarbonate

Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology
醫院管理局–屯門醫院臨床病理學部
Core Laboratory: Department of Clinical Pathology 2/F, Pok Oi Hospital, Au Tau, Yuen Long, N.T., H.K.
香港新界元朗凹頭博愛醫院二樓臨床病理學部

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed in the scope below.			
Chemical Pathology (cont'd)	**General Chemistry** (cont'd) Plasma (cont'd)	Aspartate Aminotransferase (AST) by Spectrophotometry	Roche Diagnostics cobas 8000 system, ASTPM (IFCC) assay
		Bilirubin, Direct by Spectrophotometry	Roche Diagnostics cobas 8000 system, BILD2 Diazo assay
		Bilirubin, Indirect by Calculation	Calculated from plasma total and direct bilirubin
		Bilirubin, Total by Spectrophotometry	Roche Diagnostics cobas 8000 system, BLT3 Diazo assay
		Calcium, albumin-adjusted by Calculation	Calculated from plasma albumin and calcium
	Heparinized whole blood	Calcium, ionized by Potentiometry (Ion-Selective Electrode)	Siemens RapidLab 1265 system
	Plasma	Calcium by Spectrophotometry	Roche Diagnostics cobas 8000 system, CA2 assay
		Bicarbonate by Spectrophotometry	Roche Diagnostics cobas 8000 system, CO2-L assay
		Chloride by Potentiometry (Ion-Selective Electrode)	Roche Diagnostics cobas 8000 system, ISE indirect Na, K, Cl for Gen 2 assay

Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology
醫院管理局–屯門醫院臨床病理學部
Core Laboratory: Department of Clinical Pathology 2/F, Pok Oi Hospital, Au Tau, Yuen Long, N.T., H.K.
香港新界元朗凹頭博愛醫院二樓臨床病理學部

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for the performing examinations listed in the scope below.			
Chemical Pathology (cont'd)	**General Chemistry** (cont'd) Plasma (cont'd)	Cholesterol by Spectrophotometry	Roche Diagnostics cobas 8000 system, CHOL2 assay
		Cholesterol, HDL by Spectrophotometry	Roche Diagnostics cobas 8000 system, HDL-C3 assay
		Cholesterol, LDL by Calculation	Calculated from Cholesterol, HDL Cholesterol and Triglycerides
		Cholesterol – non-HDL (high density lipoprotein) by Calculation	Calculated from Cholesterol and HDL Cholesterol
		Creatine Kinase (CK) by Spectrophotometry	Roche Diagnostics cobas 8000 system, CK (IFCC) assay
		Creatinine by Spectrophotometry	Roche Diagnostics cobas 8000 system, CREJ2 assay
	Serum	Fructosamine by Spectrophotometry	Roche Diagnostics cobas 8000 system, FRA assay
	Plasma	Gamma-Glutamyl Transferase (GGT) by Spectrophotometry	Roche Diagnostics cobas 8000 system, GGT-2 (IFCC) assay
		Globulin by Calculation	Calculated from plasma total protein and albumin
		Glomerular Filtration Rate (GFR), estimated by Calculation	Roche Diagnostics cobas 8000 system (calculated from creatinine assay)

Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology
醫院管理局–屯門醫院臨床病理學部
Core Laboratory: Department of Clinical Pathology 2/F, Pok Oi Hospital, Au Tau, Yuen Long, N.T., H.K.
香港新界元朗凹頭博愛醫院二樓臨床病理學部

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed in the scope below.			
Chemical Pathology (cont'd)	**General Chemistry** (cont'd)		
	CSF	Glucose, CSF by Spectrophotometry	Roche Diagnostics cobas 8000 system, GLU3 assay
	Fluoride plasma	Glucose, plasma by Spectrophotometry	Roche Diagnostics cobas 8000 system, GLU3 assay
	Plasma	Iron by Spectrophotometry	Roche Diagnostics cobas 8000 system, Iron2 assay
		Lactate Dehydrogenase (LDH) by Spectrophotometry	Roche Diagnostics cobas 8000 system, LDHI2 (IFCC) assay
	Serum	Osmolality Gap by Calculation	Calculated from serum osmolality, plasma sodium, plasma urea and plasma glucose
	Serum, urine	Osmolality by freezing point depression	Arkray Osmometer OM-6060
	Plasma	Phosphate by Spectrophotometry	Roche Diagnostics cobas 8000 system, PHOS2 assay

Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology

醫院管理局–屯門醫院臨床病理學部

Core Laboratory: Department of Clinical Pathology 2/F, Pok Oi Hospital, Au Tau, Yuen Long, N.T., H.K.

香港新界元朗凹頭博愛醫院二樓臨床病理學部

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed in the scope below.			
Chemical Pathology (cont'd)	**General Chemistry** (cont'd)		
	Plasma (cont'd)	Potassium by Potentiometry (Ion-Selective Electrode)	Roche Diagnostics cobas 8000 system, ISE indirect Na, K, Cl for Gen 2 assay
	CSF	Protein, Total by Spectrophotometry	Roche Diagnostics cobas 8000 system, TPUC3 assay
	Plasma	Protein, Total by Spectrophotometry	Roche Diagnostics cobas 8000 system, TP2 assay
		Sodium by Potentiometry (Ion-Selective Electrode)	Roche Diagnostics cobas 8000 system, ISE indirect Na, K, Cl for Gen 2 assay
		Total Iron Binding Capacity by Calculation	Calculated from plasma iron and UIBC
		Triglycerides by Spectrophotometry	Roche Diagnostics cobas 8000 system, TRIGL assay
	EDTA plasma	Troponin I by Immunoassay (Chemiluminescent label)	Abbott Architect *i*1000 SR system, STAT HS Troponin-I assay
	Plasma	Uric Acid by Spectrophotometry	Roche Diagnostics cobas 8000 system, UA2 assay
		Urea by Spectrophotometry	Roche Diagnostics cobas 8000 system, UREAL assay
		Unsaturated iron binding capacity by Spectrophotometry	Roche Diagnostics cobas 8000 system, UIBC assay
	Hormones		
	Serum	Parathyroid Hormone by Immunoassay (Chemiluminescent Label)	Abbott Architect i1000SR system, Parathyroid Hormone assay

Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology
醫院管理局–屯門醫院臨床病理學部
Core Laboratory: Department of Clinical Pathology 2/F, Pok Oi Hospital, Au Tau, Yuen Long, N.T., H.K.
香港新界元朗凹頭博愛醫院二樓臨床病理學部

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed in the scope below.			
Chemical Pathology (cont'd)	**Toxicology** Serum	Ethanol by Spectrophotometry	 Roche Diagnostics cobas 8000 system, ETOH2 assay
		Paracetamol (Acetaminophen) by Spectrophotometry	 Roche Diagnostics cobas 8000 system, ACETA assay
		Salicylate by Spectrophotometry	 Roche Diagnostics cobas 8000 system, SALI assay

Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology

醫院管理局–屯門醫院臨床病理學部

Core Laboratory: Department of Clinical Pathology 2/F, Pok Oi Hospital, Au Tau, Yuen Long, N.T., H.K.

香港新界元朗凹頭博愛醫院二樓臨床病理學部

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology	**Blood Bank – General**		
	EDTA whole blood	ABO and Rh(D) typing by	
		Tile and tube method	Method as documented in LPTB0202
		ABO and Rh(D) typing by	
		Red cell agglutination, automated	Automated system: LPTB0220 using Bio-Rad IH-1000
		Antibody screen by	
		- Red cell agglutination, automated	Automated system: LPTB0220 using Bio-Rad IH-1000
		- Saline-Indirect antiglobulin test	Bio-Rad gel technique as documented in LPTB 0219
		Crossmatch by	
		- Computer crossmatch	Method as documented in LPTB0107
		- Immediate spin	Method as documented in LPTB0107
		- NISS Indirect antiglobulin test	Method as documented in LPTB0206
		- LISS Indirect antiglobulin test, manual	Method as documented in LPTB0206
		- LISS Indirect antiglobulin test, automated	Automated system: LPTB0220 using Bio-Rad IH-1000
	Coagulation		
	Citrate plasma	Coagulation studies including	
		- Prothrombin Time (PT), automated	Automated system: ACL TOP 750 system
		- Activated partial thromboplastin time (APTT), automated	
		Activated partial thromboplastin time (APTT) by	
		Manual method	Method as documented in LP PH 0508
		Prothrombin time (PT)/INR by	
		Manual method	Method as documented in LP PH 0508

Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology

醫院管理局–屯門醫院臨床病理學部

Core Laboratory: Department of Clinical Pathology 2/F, Pok Oi Hospital, Au Tau, Yuen Long, N.T., H.K.

香港新界元朗凹頭博愛醫院二樓臨床病理學部

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			

Haematology
(cont'd)
	Haematology – General
	EDTA whole blood
		Complete blood count (CBC) including
		- White cell count
		- Red cell count
		- Haemoglubin
		- Haematocrit
		- Mean corpuscular volume
		- Mean corpuscular haemoglobin
		- Mean corpuscular haemoglubin concentration
		- Red cell distribution width
		- Platelet count
		- Mean platelet volume
		- WBC Differential count (DC) including
		  - Neutrophil count
		  - Lymphocyte count
		  - Monocyte count
		  - Eosinophil count
		  - Basophil count
			Automated system: Beckman Coulter UniCel DxH800

	EDTA whole blood	Erythrocyte Sedimentation Rate (ESR) by Automated method	Alifax Test 1 system
	EDTA whole blood	Peripheral blood smear examination by - Wright – Giemsa staining	Aerospray Haematology Pro 7152 slide stainer Method as documented in LPTH 0405
		Reticulocyte count, automated by New Methylene Blue Staining	Automated system: Beckman Coulter UniCel DxH800
		Reticulocyte count, manual by New Methylene Blue Staining	Method as documented in LPTH 0406

Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology

醫院管理局–屯門醫院臨床病理學部

Core Laboratory: Department of Clinical Pathology 9/F, Tin Shui Wai Hospital, 11 Tin Tan Street, Tin Shui Wai, N.T., H.K.
香港新界天水圍天壇街 11 號天水圍醫院九樓病理學部

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed in the scope below.			
Chemical Pathology	**Blood gases and Co-oximetry**		
	Heparinized whole blood	Blood Gas include:	
		- pCO_2 by Potentiometry (pCO_2-Sensing Electrode)	Siemens RapidLab 1265 system
		- pH by Potentiometry (Ion-Selective Electrode)	Siemens RapidLab 1265 system
		- pO_2 by Polarography (Oxygen-Sensing Amperometric Electrode)	Siemens RapidLab 1265 system
		Carboxyhaemoglobin by Co-oximetry	Siemens RapidLab 1265 system
		Methaemoglobin by Co-oximetry	Siemens RapidLab 1265 system
	General Chemistry		
	Plasma	Alanine Aminotransferase (ALT) by Spectrophotometry	Roche Diagnostics cobas 6000 system ALTLP (IFCC) assay
		Albumin by Spectrophotometry	Roche Diagnostics cobas 6000 system ALB2 BCG assay
		Alkaline Phosphatase (ALP) by Spectrophotometry	Roche Diagnostics cobas 6000 system ALP2 (IFCC) assay
	Fluid, plasma	Amylase by Spectrophotometry	Roche Diagnostics cobas 6000 system AMYL2 (IFCC) assay
	Plasma	Anion Gap by Calculation	Calculated from plasma sodium, chloride and bicarbonate
		Aspartate Aminotransferase (AST) by Spectrophotometry	Roche Diagnostics cobas 6000 system ASTLP (IFCC) assay

Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology

醫院管理局–屯門醫院臨床病理學部

Core Laboratory: Department of Clinical Pathology 9/F, Tin Shui Wai Hospital, 11 Tin Tan Street, Tin Shui Wai, N.T., H.K.
香港新界天水圍天壇街 11 號天水圍醫院九樓病理學部

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed in the scope below.			
Chemical Pathology (cont'd)	**General Chemistry** (cont'd) Plasma (cont'd)	Bicarbonate by Spectrophotometry	Roche Diagnostics cobas 6000 system CO2-L assay
		Bilirubin, Direct by Spectrophotometry	Roche Diagnostics cobas 6000 system BILD2 Diazo assay
		Bilirubin, Indirect by Calculation	Calculated from Bilirubin Total and Bilirubin Direct
		Bilirubin, Total by Spectrophotometry	Roche Diagnostics cobas 6000 system BILT3 Diazo assay
	Plasma	Calcium by Spectrophotometry	Roche Diagnostics cobas 6000 system CA2 assay
	Heparinized whole blood	Calcium, ionized by Potentiometry (Ion-Selective Electrode)	Siemens RapidLab 1265 system
	Plasma	Chloride by Potentiometry (Ion-Selective Electrode)	Roche Diagnostics cobas 6000 system ISE indirect Na, K, Cl for Gen2 assay
		Cholesterol by Spectrophotometry	Roche Diagnostics cobas 6000 system CHOL2 assay
		Cholesterol - high density lipoproteins (HDL) by Spectrophotometry	Roche Diagnostics cobas 6000 system HDL-C3 assay
		Cholesterol - low density lipoproteins (LDL) by Calculation	Calculated from Cholesterol, HDL Cholesterol and Triglycerides
		Cholesterol – non-HDL (high density lipoprotein) by Calculation	Calculated from Cholesterol and HDL Cholesterol

Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology
醫院管理局–屯門醫院臨床病理學部
Core Laboratory: Department of Clinical Pathology 9/F, Tin Shui Wai Hospital, 11 Tin Tan Street, Tin Shui Wai, N.T., H.K.
香港新界天水圍天壇街 11 號天水圍醫院九樓病理學部

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed in the scope below.			
Chemical Pathology (cont'd)	**General Chemistry** (cont'd) Plasma (cont'd)	Creatine Kinase (CK) by Spectrophotometry	Roche Diagnostics cobas 6000 system CK2 (IFCC) assay
		Creatinine by Spectrophotometry	Roche Diagnostics cobas 6000 system CREJ2 assay
	Plasma	Gamma Glutamyl Transpeptidase (GGT) by Spectrophotometry	Roche Diagnostics cobas 6000 system GGT-2 (IFCC) assay
		Glomerular Filtration Rate (GFR), estimated by Calculation	Roche Diagnostics cobas 6000 system (calculated from creatinine using Modification of Diet in Renal Disease (MDRD) equation)
		Globulin by Calculation	Calculated from total Protein and Albumin
	CSF	Glucose by Spectrophotometry	Roche Diagnostics cobas 6000 system GLU3 assay
	Fluoride plasma	Glucose by Spectrophotometry	Roche Diagnostics cobas 6000 system GLU3 assay
	Plasma	Iron by Spectrophotometry	Roche Diagnostics cobas 6000 system Iron2 assay
		Lactate dehydrogenase (LDH) by Spectrophotometry	Roche Diagnostics cobas 6000 system LDH2 (IFCC) assay
	Serum, urine	Osmolality by Freezing point depression	Arkray Osmometer OM-6060
	Serum	Osmolality gap by Calculation	Calculated from plasma sodium, plasma glucose, serum osmolality and plasma urea

Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology
醫院管理局–屯門醫院臨床病理學部
Core Laboratory: Department of Clinical Pathology 9/F, Tin Shui Wai Hospital, 11 Tin Tan Street, Tin Shui Wai, N.T., H.K.
香港新界天水圍天壇街 11 號天水圍醫院九樓病理學部

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed in the scope below.			
Chemical Pathology (cont'd)	**General Chemistry** (cont'd) Plasma (cont'd)	Phosphate by Spectrophotometry	Roche Diagnostics cobas 6000 system PHOS2 assay
		Potassium by Potentiometry (Ion-Selective Electrode)	Roche Diagnostics cobas 6000 system ISE indirect Na, K, Cl for Gen2 assay
	CSF	Protein, Total by Spectrophotometry	Roche Diagnostics cobas 6000 system TPU3 assay
	Plasma	Protein, Total by Spectrophotometry	Roche Diagnostics cobas 6000 system TP2 assay
		Sodium by Potentiometry (Ion-Selective Electrode)	Roche Diagnostics cobas 6000 system ISE indirect Na, K, Cl for Gen2 assay
		Total iron binding capacity by Calculation	Calculated from plasma iron and UIBC
		Triglycerides by Spectrophotometry	Roche Diagnostics cobas 6000 system TRIGL assay
	EDTA plasma	Troponin I by Immunoassay (Chemiluminescent label)	Abbott Architect *i*2000SR system STAT HS Troponin I assay
		Urea by Spectrophotometry	Roche Diagnostics cobas 6000 system UREAL assay
		Uric acid by Spectrophotometry	Roche Diagnostics cobas 6000 system UA2 assay
		Unsaturated iron binding capacity by Spectrophotometry	Roche Diagnostics cobas 6000 system UIBC assay

Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology
醫院管理局–屯門醫院臨床病理學部
Core Laboratory: Department of Clinical Pathology 9/F, Tin Shui Wai Hospital, 11 Tin Tan Street, Tin Shui Wai, N.T., H.K.
香港新界天水圍天壇街 11 號天水圍醫院九樓病理學部

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed in the scope below.			
Chemical Pathology (cont'd)	**Toxicology** Serum	Acetaminophen (paracetamol) by Spectrophotometry	 Roche Diagnostics cobas 6000 system ACETA assay
		Ethanol by Spectrophotometry	 Roche Diagnostics cobas 6000 system ETOH2 assay
		Salicylate by Spectrophotometry	 Roche Diagnostics cobas 6000 system SALI assay

Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology
醫院管理局–屯門醫院臨床病理學部
Core Laboratory: Department of Clinical Pathology 9/F, Tin Shui Wai Hospital, 11 Tin Tan Street, Tin Shui Wai, N.T., H.K.
香港新界天水圍天壇街 11 號天水圍醫院九樓病理學部

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology	**Blood Bank – General** EDTA whole blood	ABO and Rh(D) typing by Red cell agglutination	Method as documented in LPTB0202
		ABO and Rh(D) typing by Red cell agglutination, automated	Automated system: LPTB0220 using Bio-Rad IH-1000
		Antibody screen by - Red cell agglutination, automated	Automated system: LPTB0220 using Bio-Rad IH-1000
		- Saline-Indirect antiglobulin test	Bio-Rad gel technique as documented in LPTB0219
		Crossmatch by - Computer crossmatch	Method as documented in LPTB0107
		- Immediate spin	Method as documented in LPTB0107
		- NISS Indirect antiglobulin test	Method as documented in LPTB0206
		- LISS Indirect antiglobulin test, manual	Method as documented in LPTB0206
		- LISS Indirect antiglobulin test, automated	Automated system: LPTB0220 using Bio-Rad IH-1000

Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology

醫院管理局–屯門醫院臨床病理學部

Core Laboratory: Department of Clinical Pathology 9/F, Tin Shui Wai Hospital, 11 Tin Tan Street, Tin Shui Wai, N.T., H.K.
香港新界天水圍天壇街 11 號天水圍醫院九樓病理學部

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology (cont'd)	**Coagulation**		
	Citrate plasma	Coagulation studies including - Prothrombin Time (PT) - Activated partial thromboplastin time (APTT)	Automated system: ACL TOP 750 system
	Haematology – General		
	EDTA whole blood	Complete blood count including - White blood cell count (WBC) - Red blood cell count (RBC) - Haemoglobin (HGB) - Haematocrit (HCT) - Mean corpuscular volume (MCV) - Mean corpuscular haemoglobin (MCH) - Mean corpuscular haemoglobin concentration (MCHC) - Red cell distribution width (RDW) - Platelet count - Mean Platelet Volume (MPV) - Reticulocyte count - WBC differential count	Automated Haematology systems: Beckman Coulter DxH800
	Citrated whole blood	Erythrocyte Sedimentation Rate (ESR) by Automated method	Diesse Vesmatic 30 ESR Analyser
	EDTA whole blood	Peripheral blood smear examination by Wright – Giemsa staining	Aerospray Haematology Stat 7122 Slide Stainer

Hong Kong Molecular Pathology Diagnostic Centre Limited
香港分子病理檢驗中心有限公司

ADDRESS : 35/F, Enterprise Square Two, 3 Sheung Yuet Road, Kowloon Bay, Kowloon
地址 九龍九龍灣常悅道 3 號企業廣場二期 35 字樓

ENQUIRY : Ms TANG Ming-ki
查詢 鄧明琪女士

TELEPHONE : 2986 3228
電話

FAX : 2527 7028
傳真

E-MAIL : catherine.tang@hk-mpdc.com
電郵

WEBSITE ADDRESS : www.hkmpdc.com
網址

CLIENTELE : Private physicians, medical centres, hospitals and other medically related institutions
服務對象 私家醫生,醫療中心,醫院和與醫療有關的機構

Hong Kong Molecular Pathology Diagnostic Centre Limited
香港分子病理檢驗中心有限公司

ADDRESS **地址**	:	35/F, Enterprise Square Two, 3 Sheung Yuet Road, Kowloon Bay, Kowloon 九龍九龍灣常悅道 3 號企業廣場二期 35 字樓
LABORATORY DIRECTOR **化驗所主管**	:	**Biomedical Scientist Director 醫務科學主管:** Dr Stella TSANG Tsui-ying 曾璀瑩博士 PhD, MB(ASCPi), FIBMS, Reg Part I MLT
ACCREDITED TEST CATEGORY **認可測試類別**	:	**Medical Testing** **醫務化驗** Medical Genetics (Molecular Genetics) 醫學遺傳學 (分子遺傳學)

Hong Kong Molecular Pathology Diagnostic Centre Limited
香港分子病理檢驗中心有限公司
35/F, Enterprise Square Two, 3 Sheung Yuet Road, Kowloon Bay, Kowloon
九龍九龍灣常悅道 3 號企業廣場二期 35 字樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics	**Molecular Genetics** Tissue specimens	ALK Gene Rearrangement by Fluorescence In-Situ Hybridisation	Tissue preparation as documented in LP201. Detection by Fluorescence In-Situ Hybridisation as documented in LP201.
		BRAF Gene Codon V600 Mutation by Polymerase Chain Reaction and Sanger Sequencing	Nucleic acid extraction as documented in LP101 and LP111. Nucleic acid amplification and post amplification processing as documented in LP203, LP102, LP103, LP106 and LP110.
		Chromosome 1p/19q Deletion by Fluorescence In-Situ Hybridisation	Tissue preparation as documented in LP206. Detection by Fluorescence In-Situ Hybridisation as documented in LP206.
		EGFR Gene Exons 18-21 Hotspot Mutations by - Polymerase Chain Reaction and Sanger Sequencing - Real-time PCR	Nucleic acid extraction as documented in LP101 and LP111. Nucleic acid amplification and post amplification processing as documented in LP207, LP102, LP103, LP106, LP109 and LP110.
		ERBB2 (HER2) Gene Exon 20 Mutation by Polymerase Chain Reaction and Sanger Sequencing	Nucleic acid extraction as documented in LP101 and LP111. Nucleic acid amplification and post amplification processing as documented in LP208, LP102, LP103, LP106 and LP110.
		ERBB2 (HER2) Gene Amplification by Fluorescence In-Situ Hybridisation	Tissue preparation as documented in LP209. Detection by Fluorescence In-Situ Hybridisation as documented in LP209.
		KIT Gene Exons 9, 11, 13, 14 and 17 Hotspot Mutations by Polymerase Chain Reaction and Sanger Sequencing	Nucleic acid extraction as documented in LP101 and LP111. Nucleic acid amplification and post amplification processing as documented in LP211, LP102, LP103, LP106 and LP110.

Hong Kong Molecular Pathology Diagnostic Centre Limited
香港分子病理檢驗中心有限公司
35/F, Enterprise Square Two, 3 Sheung Yuet Road, Kowloon Bay, Kowloon
九龍九龍灣常悅道 3 號企業廣場二期 35 字樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics (cont'd)	**Molecular Genetics (cont'd)**		
	Tissue specimens (cont'd)	KRAS Gene Exons 2-4 Hotspot Mutations by Polymerase Chain Reaction and Sanger Sequencing	Nucleic acid extraction as documented in LP101 and LP111. Nucleic acid amplification and post amplification processing as documented in LP212, LP102, LP103, LP106 and LP110.
		MGMT Promoter Methylation by Methylation Specific PCR	Nucleic acid extraction as documented in LP101 and LP111. Nucleic acid amplification and post amplification processing as documented in LP213, LP106 and LP110.
		Microsatellite Instability Testing by Polymerase Chain Reaction and Fragment Analysis	Nucleic acid extraction as documented in LP101 and LP111. Nucleic acid amplification and post amplification processing as documented in LP215, LP107 and LP110.
		NRAS Gene Exons 2-4 Hotspot Mutations by Polymerase Chain Reaction and Sanger Sequencing	Nucleic acid extraction as documented in LP101 and LP111. Nucleic acid amplification and post amplification processing as documented in LP217, LP102, LP103, LP106 and LP110.
		PDGFRA Gene Exons 12 and 18 Hotspot Mutations by Polymerase Chain Reaction and Sanger Sequencing	Nucleic acid extraction as documented in LP101 and LP111. Nucleic acid amplification and post amplification processing as documented in LP218, LP102, LP103, LP106 and LP110.
		PIK3CA Gene Exons 9 and 20 Hotspot Mutations by Polymerase Chain Reaction and Sanger Sequencing	Nucleic acid extraction as documented in LP101 and LP111. Nucleic acid amplification and post amplification processing as documented in LP219, LP102, LP103, LP106 and LP110.
		ROS1 Gene Rearrangement by Fluorescence In-Situ Hybridisation	Tissue preparation as documented in LP201. Detection by Fluorescence In-Situ Hybridisation as documented in LP201.

Hong Kong Molecular Pathology Diagnostic Centre Limited
香港分子病理檢驗中心有限公司
35/F, Enterprise Square Two, 3 Sheung Yuet Road, Kowloon Bay, Kowloon
九龍九龍灣常悅道 3 號企業廣場二期 35 字樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics (cont'd)	**Molecular Genetics (cont'd)**		
	Tissue specimens and EDTA whole blood	PTEN Gene Mutation Detection by Polymerase Chain Reaction and Sanger Sequencing, with or without Multiplex Ligation-dependent Probe Amplification	Nucleic acid extraction as documented in LP101 and LP111. Nucleic acid amplification and post amplification processing as documented in LP220, LP102, LP103, LP104, LP106, LP107, LP108 and LP110.
		TP53 Gene Mutation Detection by Polymerase Chain Reaction and Sanger Sequencing, with or without Multiplex Ligation-dependent Probe Amplification	Nucleic acid extraction as documented in LP101 and LP111. Nucleic acid amplification and post amplification processing as documented in LP222, LP102, LP103, LP104, LP106, LP107, LP108 and LP110.
	EDTA whole blood	APC Gene Mutation by Polymerase Chain Reaction and Sanger Sequencing, with or without Multiplex Ligation-dependent Probe Amplification	Nucleic acid extraction as documented in LP101. Nucleic acid amplification and post amplification processing as documented in LP202, LP102, LP103, LP104, LP106, LP107, LP108 and LP110.
		BRCA1 and BRCA2 Genes Mutation by Polymerase Chain Reaction and Sanger Sequencing, with or without Multiplex Ligation-dependent Probe Amplification	Nucleic acid extraction as documented in LP101. Nucleic acid amplification and post amplification processing as documented in LP204, LP102, LP103, LP104, LP106, LP107, LP108 and LP110.
		MLH1, MSH2, MSH6 and PMS2 (MMR) Genes Mutation by Polymerase Chain Reaction and Sanger Sequencing, with or without Multiplex Ligation-dependent Probe Amplification	Nucleic acid extraction as documented in LP101. Nucleic acid amplification and post amplification processing as documented in LP214, LP102, LP103, LP104, LP106, LP107, LP108 and LP110.
		MUTYH Gene Mutation by Polymerase Chain Reaction and Sanger Sequencing, with or without Multiplex Ligation-dependent Probe Amplification	Nucleic acid extraction as documented in LP101. Nucleic acid amplification and post amplification processing as documented in LP216, LP102, LP103, LP104, LP106, LP107, LP108 and LP110.
		STK11 Gene Mutation by Polymerase Chain Reaction and Sanger Sequencing, with or without Multiplex Ligation-dependent Probe Amplification	Nucleic acid extraction as documented in LP101. Nucleic acid amplification and post amplification processing as documented in LP221, LP102, LP103, LP104, LP106, LP107, LP108 and LP110.

Hong Kong Molecular Pathology Diagnostic Centre Limited
香港分子病理檢驗中心有限公司
35/F, Enterprise Square Two, 3 Sheung Yuet Road, Kowloon Bay, Kowloon
九龍九龍灣常悅道 3 號企業廣場二期 35 字樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics (cont'd)	**Molecular Genetics (cont'd)**		
	Cervical scrapping and cervical aspirate	Detection and Genotyping of Human Papillomavirus (HPV), High Risk and Low Risk Genotypes by Polymerase Chain Reaction and Flow-through Hybridisation (Target region: L1 gene)	Nucleic acid extraction as documented in LP101. Nucleic acid amplification and post amplification processing as documented in LP210.
	Tissue specimens	IDH1 & IDH2 Genes Exon 4 Hotspot Mutations by Polymerase Chain Reaction and Sanger Sequencing	Nucleic acid extraction as documented in LP101 and LP111. Nucleic acid amplification and post amplification processing as documented in LP203, LP102, LP103, LP106 and LP110.

Hong Kong Molecular Pathology Diagnostic Centre Limited
香港分子病理檢驗中心有限公司
35/F, Enterprise Square Two, 3 Sheung Yuet Road, Kowloon Bay, Kowloon
九龍九龍灣常悅道 3 號企業廣場二期 35 字樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Medical Genetics (cont'd)	**Molecular Genetics (Microbiology)**		
	Urine and genital swab (Urethral swab, vaginal swab, cervical swab)	Detection of Chlamydia trachomatis, Neisseria gonorrhoeae and Ureaplasma urealyticum by Polymerase Chain Reaction and Flow-through Hybridisation	Nucleic acid extraction as documented in LP101. Nucleic acid amplification and post amplification processing as documented in LP301.
		Detection and Genotyping HSV Type 1 and HSV Type 2 by Qualitative Real-time Polymerase Chain Reaction	Nucleic acid extraction as documented in LP101. Nucleic acid amplification and post amplification processing as documented in LP304.
	Deep throat saliva, Nasopharyngeal swab, Sputum and Throat swab	Detection of Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2), qualitative by Real-Time Reverse Transcription Polymerase Chain Reaction (Target gene: ORF1 ab and/or N-gene)	Nucleic acid extraction as documented in LP101. Hybribio COVID-19 Real Time PCR Kit Nucleic acid amplification and post amplification processing as documented in LP306.

iPath Laboratory Limited

ADDRESS **地址**	:	Clinical Laboratory and Pathology 1/F, Main Tower, Hong Kong Adventist Hospital – Tsuen Wan, 199 Tsuen King Circuit, Tsuen Wan, New Territories, Hong Kong 病理化驗中心 香港新界荃灣荃景圍 199 號荃灣港安醫院主座大樓一樓
ENQUIRY **查詢**	:	Ms Kennus LEUNG 梁佩雯小姐
TELEPHONE **電話**	:	2275 6152
FAX **傳真**	:	2275 6164
E-MAIL **電郵**	:	Nil
WEBSITE ADDRESS **網址**	:	Nil
CLIENTELE **服務對象**	:	Private physicians, medical centres, hospitals and other medically related institutions 私家醫生,醫療中心,醫院和與醫療有關的機構

iPath Laboratory Limited

ADDRESS **地址**	:	Clinical Laboratory and Pathology 1/F, Main Tower, Hong Kong Adventist Hospital – Tsuen Wan, 199 Tsuen King Circuit, Tsuen Wan, New Territories, Hong Kong 病理化驗中心 香港新界荃灣荃景圍 199 號荃灣港安醫院主座大樓一樓
LABORATORY DIRECTOR **化驗所主管**	:	**Pathologist Director 病理學主管:** Dr CHAN Kui-fat 陳鉅發醫生 MBChB, FHKCPath, FRCPA, FHKAM(Pathology)
PATHOLOGIST IN CHARGE OF THE ACCREDITED DISCIPLINE **負責認可範疇的病理學專科醫生**	:	Anatomical Pathology 解剖病理學 Dr CHAN Kui-fat 陳鉅發醫生 (Full-time 全職)
ACCREDITED TEST CATEGORY **認可測試類別**	:	**Medical Testing 醫務化驗** Anatomical Pathology 解剖病理學

iPath Laboratory Limited
1/F, Main Tower, Hong Kong Adventist Hospital – Tsuen Wan, 199 Tsuen King Circuit, Tsuen Wan, NT, HK
香港新界荃灣荃景圍199號荃灣港安醫院主座大樓一樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing examinations and for providing clinical interpretation of examinations listed below.			
Anatomical Pathology	**Cytopathology**		
	Fine needle aspiration	Fine needle aspiration cytology examination by H&E staining Papanicolaou staining Special staining	Specimen preparation and routine staining by manual method as documented in SOP-CYTO- Cytology Specimen preparation by Thinprep Non Gyn Test and routine staining (manual method) as documented in SOP-CYTO-Cytology Special staining by manual method as documented in SOP-HISTO- SpecialStain Acid fast bacilli by Ziehl-Neelsen Haemosiderin pigment by Perls' Prussian blue Mucin, fungi by Periodic Acid-Schiff (PAS)
	Gynaecological specimens	Gynaecological cytology examination by Papanicolaou staining	Specimen preparation, routine staining by manual method for ThinPrep + Papanicolaou stain Method as documented in SOP-CYTO-Cytology
	Non-gynaecological specimens	Non-gynaecological cytology examination by H&E staining Papanicolaou staining Special staining	Specimens preparation, routine staining by manual method as documented in SOP-CYTO-Cytology Specimen preparation by Thinprep Non Gyn Test and routine staining (manual method) as documented in SOP-CYTO-Cytology Special staining by manual method as documented in SOP-HISTO- SpecialStain Acid fast bacilli by Ziehl-Neelsen Haemosiderin pigment by Perls' Prussian blue Mucin, fungi by Periodic Acid-Schiff (PAS)
Anatomical	**Histopathology**		

iPath Laboratory Limited
1/F, Main Tower, Hong Kong Adventist Hospital – Tsuen Wan, 199 Tsuen King Circuit, Tsuen Wan, NT, HK
香港新界荃灣荃景圍199號荃灣港安醫院主座大樓一樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing examinations and for providing clinical interpretation of examinations listed below.			
Pathology (cont'd)	Surgical pathology	Histology examination by H&E staining Special staining	Specimen preparation as documented in SOP-HISTO-SpecimenManagement Special staining by manual method as documented in SOP-HISTO- SpecialStain Acid fast bacilli by Ziehl-Neelsen Amyloid deposits by Congo Red Basement membrane, fungi, mucin, glycogen by Periodic Acid-Schiff (PAS) Basement membrane by Periodic Acid Silver Methanamine (PASM) Connective tissue and muscle by Masson's Trichrome Fungi by Grocott's Methanamine Silver Glycogen digestion by Periodic Acid-Schiff Diastase (PASD) Haemosiderin and ferric iron by Perls' Prussian Blue Helicobacter pylori by Price's Giemsa Hepatitis B surface antigen, elastic fibre by Shikata's Orcein Reticulin fibre by Gordon & Sweet's Silver
	Intraoperative frozen section for fresh specimen and biopsy	Histology examination by H&E staining	Specimen preparation and H&E staining by manual method as documented in SOP-HISTO- FrozenSection
		Immunohistochemical examination for various antigen markers by Automated method	Slide preparation and staining (automated method) as documented in SOP-HISTO-IHC Detection system: BOND Polymer Refine Detection Kit Antigen retrieval: On-board retrieval (by enzyme digestion or heat induced retrieval method) by Leica BOND-MAX Autostainer Leica BOND III Autostainer

The Chinese University of Hong Kong – Department of Obstetrics and Gynaecology, Obstetrics Screening Laboratory

ADDRESS **地址**	:	Room 20, 2/F, Department of Obstetrics and Gynaecology, South Wing, Li Ka Shing Specialist Clinic, Prince of Wales Hospital, Shatin, New Territories, Hong Kong 香港沙田威爾斯親王醫院李嘉誠專科診所南翼二樓 20 號房
ENQUIRY **查詢**	:	Ms WONG Chui-lin 黃翠蓮女士
TELEPHONE **電話**	:	35054217
FAX **傳真**	:	27252638
E-MAIL **電郵**	:	canmeiwong@cuhk.edu.hk
WEBSITE ADDRESS **網址**	:	http://www.obg.cuhk.edu.hk
CLIENTELE **服務對象**	:	Public and private hospitals and clinics 公營及私營醫院和診所

The Chinese University of Hong Kong – Department of Obstetrics and Gynaecology, Obstetrics Screening Laboratory

ADDRESS **地址**	:	Room 20, 2/F, Department of Obstetrics and Gynaecology, South Wing, Li Ka Shing Specialist Clinic, Prince of Wales Hospital, Shatin, New Territories, Hong Kong 香港新界沙田威爾斯親王醫院李嘉誠專科診所南翼二樓20號房
LABORATORY DIRECTOR **化驗所主管**	:	**Biomedical Scientist Director 醫務科學主管:** Dr KWOK Ka-yin 郭家賢博士 PhD (HK), Reg. MLT1 (HK)
ACCREDITED TEST CATEGORY **認可測試類別**	:	**Medical Testing 醫務化驗** Chemical Pathology 化學病理學

The Chinese University of Hong Kong – Department of Obstetrics and Gynaecology, Obstetrics Screening Laboratory

Room 20, 2/F, Department of Obstetrics and Gynaecology, South Wing, Li Ka Shing Specialist Clinic, Prince of Wales Hospital, Shatin, New Territories, Hong Kong
香港新界沙田威爾斯親王醫院李嘉誠專科診所南翼二樓 20 號房

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology	**Special Chemistry** Serum	Down's Syndrome Risk Assessment (first trimester) based on - Free beta subunit of Human Chorionic Gonadotropin (fβ-HCG) by Time-Resolved Amplified Cryptate Emission (TRACE™) - Pregnancy-associated plasma protein A (PAPP-A) by Time-Resolved Amplified Cryptate Emission (TRACE™)	Software: In-house method as documented in SOP 113 and 150 KRYPTOR Compact Plus (fβ-HCG assay) KRYPTOR GOLD (fβ-HCG assay) KRYPTOR Compact Plus (PAPPA assay) KRYPTOR GOLD (PAPPA assay)
		Down's Syndrome Risk Assessment (second trimester) based on - Alpha-foetal Protein (AFP) by Time-Resolved Amplified Cryptate Emission (TRACE™) - Free beta subunit of Human Chorionic Gonadotropin (fβ- HCG) by Time-Resolved Amplified Cryptate Emission (TRACE™) - Unconjugated Estriol (uE3) by Time-Resolved Amplified Cryptate Emission (TRACE™) - Inhibin A by Time-Resolved Amplified Cryptate Emission (TRACE™)	Software: In-house method as documented in SOP 113 and 150 KRYPTOR GOLD (AFP assay) KRYPTOR GOLD (fβ-HCG assay) KRYPTOR GOLD (uE3 assay) KRYPTOR GOLD (Inhibin A assay)

GHK Hospital Limited – Gleneagles Hospital Hong Kong, Department of Clinical Laboratory
港怡醫院 - 臨床化驗部

ADDRESS **地址**	:	LG/F, Gleneagles Hospital Hong Kong, 1 Nam Fung Path, Wong Chuk Hang, Hong Kong 香港黃竹坑南風徑一號港怡醫院地下下一層
ENQUIRY **查詢**	:	Mr TSANG Kwong-cheong 曾廣昌先生
TELEPHONE **電話**	:	3153 9921
FAX **傳真**	:	3903 3499
E-MAIL **電郵**	:	kc.tsang@gleneagles.hk
WEBSITE ADDRESS **網址**	:	https://gleneagles.hk
CLIENTELE **服務對象**	:	Public and private hospitals and clinics 公營及私營醫院和診所

GHK Hospital Limited – Gleneagles Hospital Hong Kong, Department of Clinical Laboratory
港怡醫院 - 臨床化驗部

ADDRESS
地址 : LG/F, Gleneagles Hospital Hong Kong, 1 Nam Fung Path, Wong Chuk Hang, Hong Kong
香港黃竹坑南風徑一號港怡醫院地下下一層

Collection Centre 樣本收集中心:
G/F, Gleneagles Hospital Hong Kong, 1 Nam Fung Path, Wong Chuk Hang, Hong Kong
香港黃竹坑南風徑一號港怡醫院地下

LABORATORY DIRECTOR
化驗所主管 : **Biomedical Scientist Director 醫務科學主管:**
Mr TSANG Kwong-cheong
曾廣昌先生
MSc, BSc, Reg Part I MLT (HK)

ACCREDITED TEST CATEGORY
認可測試類別 : **Medical Testing 醫務化驗**

Anatomical Pathology	解剖病理學
Chemical Pathology	化學病理學
Clinical Microbiology and Infection	臨床微生物學及傳染病
Haematology	血液學
Molecular Genetics (microbiology)	分子遺傳學(微生物學)

GHK Hospital Limited – Gleneagles Hospital Hong Kong, Department of Clinical Laboratory

港怡醫院 - 臨床化驗部

LG/F, Gleneagles Hospital Hong Kong, 1 Nam Fung Path, Wong Chuk Hang, Hong Kong

香港黃竹坑南風徑一號港怡醫院地下下一層

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology	**Cytopathology**		
	Fine needle aspirates	Fine needle aspiration cytology examination by H&E, Papanicolaou and Giemsa staining	Specimen collection as documented in WI-GLAB-208
	Gynaecological specimens	Gynaecological cytology examination by Papanicolaou staining	Specimen preparation and staining as documented in WI-GLAB_402 and WI-GLAB_403
	Non-gynaecological specimens	Non-gynaecological cytology examination by H&E and Papanicolaou staining	Specimen preparation as documented in WI-GLAB_402 Staining method as documented in WI-GLAB_403

GHK Hospital Limited – Gleneagles Hospital Hong Kong, Department of Clinical Laboratory

港怡醫院 - 臨床化驗部

LG/F, Gleneagles Hospital Hong Kong, 1 Nam Fung Path, Wong Chuk Hang, Hong Kong

香港黃竹坑南風徑一號港怡醫院地下下一層

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology (cont'd)	**Histopathology** Surgical pathology and cytological specimens	Histology examination by H&E and special staining	Specimen preparation as documented in WI_GLAB_006, WI_GLAB_301, WI_GLAB_307, WI_GLAB_312, WI_GLAB_314 Specimen fixation using 10% neutral buffered formalin Tissue processing using Thermo Scientific Excelsior AS tissue processor H&E staining using Dako CoverStainer autostainer Special staining (manual method): Method as documented inWI_GLAB_317 Special staining (automated method): Dako Artisan Link Pro autostainer Method as documented in WI_GLAB_318 Acid fast bacilli by Ziehl Neelsen Amyloid by Highman's Congo Red Gram positive and negative bacteria by Gram stain Collagen and muscle by Masson's Trichrome Glycol groups by Periodic Acid Schiff Periodate reactive carbohydrates by Periodic Acid Schiff + Digest (α-Amylase) Mucin and capsule of Cryptococcus by Southgate's mucicarmine Fungus and PCP by Grocott hexamine silver Acidic mucin by Alcian blue (pH 2.5) Hepatitis B surface antigen and copper-associated proteins by Orcein Reticulin by Gordon & Sweet's Reticulin Basement membrane by Periodic acid silver Methenamine Helicobacter pylori and spirochetes by Warthin Starry Hemosiderin by Perls' prussian blue (Fe) Elastic fibre and connective tissue by Verhoeff's Van Gieson (EVG)
	Intra-operative frozen section for fresh tissue specimens and biopsies	Histology examination by H&E staining	Specimen preparation and H&E staining (manual) as documented in WI_GLAB_302

GHK Hospital Limited – Gleneagles Hospital Hong Kong, Department of Clinical Laboratory

港怡醫院 - 臨床化驗部

LG/F, Gleneagles Hospital Hong Kong, 1 Nam Fung Path, Wong Chuk Hang, Hong Kong

香港黃竹坑南風徑一號港怡醫院地下下一層

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology (cont'd)	**Histopathology** (cont'd) Histological specimens	Immunohistochemical examination for various antigen markers by Automated staining method	Slide staining using Dako Link Omnis Workstation automated immuno-stainer Detection system: Dako EnVision FLEX detection kit Antigen retrieval: On board retrieval with Dako EnVision FLEX kit high pH retrieval buffer On board retrieval with Dako EnVision FLEX kit low pH retrieval buffer Slide preparation and staining procedure as documented in WI_GLAB_302 Slide staining using Leica Bond III automated immune-stainer Detection system: Leica Bond Polymer Refine Detection Kit Antigen retrieval: On board heat-mediated antigen retrieval with Leica Bond Epitope Retrieval 1 On board heat-mediated antigen retrieval with Leica Bond Epitope Retrieval 2 Slide preparation and staining procedure as documented in WI_GLAB_319

GHK Hospital Limited – Gleneagles Hospital Hong Kong, Department of Clinical Laboratory
港怡醫院 - 臨床化驗部
LG/F, Gleneagles Hospital Hong Kong, 1 Nam Fung Path, Wong Chuk Hang, Hong Kong
香港黃竹坑南風徑一號港怡醫院地下下一層

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology	**General Chemistry** Lithium heparinised plasma	Alanine aminotransferase (ALT) by Spectrophotometry	Siemens Atellica CH System Alanine aminotransferase P5P (ALTPLc) Assay
		Albumin (ALB) by Spectrophotometry	Siemens Atellica CH System Albumin BCP (AlbP) Assay
		Alkaline phosphatase (ALP) by Spectrophotometry	Siemens Atellica CH System Alkaline Phosphatase, concentrated (ALP_2c) Assay
		Aspartate aminotransferase (AST) by Spectrophotometry	Siemens Atellica CH System Aspartate transferase P5P (ASTPLc) Assay
		Bilirubin, Total (TBIL) by Spectrophotometry	Siemens Atellica CH System Total Bilirubin_2 (TBil_2) Assay
		Chloride by Indirect potentiometry	Siemens Atellica CH System Chloride Assay
		Creatinine by Spectrophotometry	Siemens Atellica CH System Enzymatic Creatinine_3 (ECre3) Assay
		Gamma-Glutamyl Transferase (GGT) by Spectrophotometry	Siemens Atellica CH System Gamma-Glutamyl Transferse (GGT) Assay
		Globulin by Calculation	Siemens Atellica CH System (calculated from Total Protein and Albumin)
		Glucose by Spectrophotometry	Siemens Atellica CH System Glucose Hexokinase_3 (GluH_3) Assay
		Potassium by Indirect potentiometry	Siemens Atellica CH System Potassium Assay

GHK Hospital Limited – Gleneagles Hospital Hong Kong, Department of Clinical Laboratory

港怡醫院 - 臨床化驗部

LG/F, Gleneagles Hospital Hong Kong, 1 Nam Fung Path, Wong Chuk Hang, Hong Kong

香港黃竹坑南風徑一號港怡醫院地下下一層

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology (cont'd)	**General Chemistry** (cont'd) Lithium heparinised plasma (cont'd)	Protein, Total by Spectrophotometry	Siemens Atellica CH System Total Protein II (TP) Assay
		Sodium by Indirect potentiometry	Siemens Atellica CH System Sodium Assay
		Urea by Spectrophotometry	Siemens Atellica CH System Urea Nitrogen (UN_c) Assay
	Hormones Serum	Thyroid stimulating hormone (TSH) by Immunoassay (Chemiluminescent label)	Siemens Atellica IM System TSH3UL (TSH3-UL) Assay
		Thyroxine, Free (FT4) by Immunoassay (Chemiluminescent label)	Siemens Atellica IM System FT4 (Free Thyroxine) Assay
	Special Chemistry EDTA blood	Haemoglobin A1c (HbA1c) by Ion-exchange High Performance Liquid Chromatography	BioRad Variant II Turbo 2.0 The Variant II Turbo Haemoglobin A1 (HbA1c) Assay
	Tumour markers Serum	AFP by Immunoassay (Chemiluminescent label)	Siemens Atellica IM System AFP (Alpha Fetoprotein) Assay
		CA 19-9 by Immunoassay (Chemiluminescent label)	Siemens Atellica IM System CA19_9 (CA 19-9) Assay

GHK Hospital Limited – Gleneagles Hospital Hong Kong, Department of Clinical Laboratory

港怡醫院 - 臨床化驗部

LG/F, Gleneagles Hospital Hong Kong, 1 Nam Fung Path, Wong Chuk Hang, Hong Kong

香港黃竹坑南風徑一號港怡醫院地下下一層

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection	**Bacteriology – Culture and sensitivity tests and/or microscopy**		
	Urine	Culture and antimicrobial susceptibility tests for pathogens by	
		Standard loop method	Culture: Method as documented in WI_GLAB_825 Antimicrobial susceptibility tests: Method as documented in SOP_GLAB_801 and WI_GLAB_851
	Clinical isolates	Identification of clinical isolates by	
		- Conventional identification method	Method as documented in WI_GLAB_825 and WI_GLAB_874
		- MALDI-TOF Mass Spectrometry	bioMerieux VITEK MS
	Urine	Antimicrobial susceptibility test for pathogen by	
		Broth microdilution	Thermo Scientific Sensititre ARIS HiQ System Antimicrobial susceptibility test: Method as documented in WI_GLAB_880
	Syphilis - Serology		
	Serum	Syphilis antibody by	
		Immunoassay (Chemiluminescent label)	Abbott Alinity i Syphilis TP assay Siemen Atellica Syphilis assay
	Virology - Serology		
	Serum	Hepatitis B virus antigen (HBsAg) by	
		Immunoassay (Chemiluminescent label)	Abbott Alinity i HBsAg Next qualitative assay Abbott Alinity i HBsAg Next confirmatory assay Siemens Atellica HBsAg II assay Siemens Atellica HBsAg confirmation assay
		Hepatitis C virus antibody by	
		Immunoassay (Chemiluminescent label)	Abbott Alinity i Anti-HCV assay Siemens Atellica HCV assay
		Human immunodeficiency virus (HIV) Ag/Ab Combo by	
		Immunoassay (Chemiluminescent label)	Abbott Alinity i HIV Ag/Ab Combo assay Siemens Atellica HIV Ag/Ab Combo assay

GHK Hospital Limited – Gleneagles Hospital Hong Kong, Department of Clinical Laboratory

港怡醫院 - 臨床化驗部

LG/F, Gleneagles Hospital Hong Kong, 1 Nam Fung Path, Wong Chuk Hang, Hong Kong

香港黃竹坑南風徑一號港怡醫院地下下一層

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics	**Molecular Genetics (microbiology)**		
	Deep throat saliva, nasopharyngeal swab, nasal swab and throat swab	Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) – detection by Real time Multiplex Polymerase Chain Reaction, qualitative	
		(Target regions: E gene, N2 gene and RdRP gene)	Xpert Xpress SARS-CoV-2 plus Nucleic acid extraction, amplification and detection as documented in WI_GLAB_903
		(Target regions: ORF1ab gene and N gene)	Sansure Biotech Novel Coronavirus (2019-nCoV) Nucleic Acid Diagnostic Kit Nucleic acid extraction, amplification and detection as documented in WI_GLAB_903
		(Target regions: ORF1ab gene and N gene)	Cobas SARS-CoV-2 & Influenza A/B Nucleic acid extraction, amplification and detection as documented in WI_GLAB_875

GHK Hospital Limited – Gleneagles Hospital Hong Kong, Department of Clinical Laboratory

港怡醫院 - 臨床化驗部

LG/F, Gleneagles Hospital Hong Kong, 1 Nam Fung Path, Wong Chuk Hang, Hong Kong

香港黃竹坑南風徑一號港怡醫院地下下一層

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA** **OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR** **PROPERTY MEASURED** 特定測試或量度的特性	**METHOD** **OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Haematology	**Blood Bank - General**		
	EDTA blood	ABO and Rh(D) typing, automated by Red cell agglutination	Automated Bio-Rad IH500 Method as documented in WI_GLAB_703, WI_GLAB_716
		ABO and Rh(D) typing, manual by Red cell agglutination	Method as documented in WI_GLAB_704
		Antibody screening, automated by Red cell agglutination	Automated Bio-Rad IH500 Method as documented in WI_GLAB_703, WI_GLAB_716
		Antibody screening, manual by Red cell agglutination	Method as documented in WI_GLAB_704
		Crossmatch by - Computer crossmatch	Automated Bio-Rad IH500 Method as documented in WI_GLAB_703, WI_GLAB_716
		- Immediate spin	Method as documented in WI_GLAB_704
		- Red cell agglutination	Automated Bio-Rad IH500 Method as documented in WI_GLAB_703, WI_GLAB_704, WI_GLAB_716
		- Saline indirect antiglobulin test	Automated Bio-Rad IH500 Method as documented in WI_GLAB_703, WI_GLAB_704, WI_GLAB_716
	Coagulation		
	Citrate blood	Coagulation studies by Automated method, including - Activated partial thromboplastin time (APTT) - Prothrombin Time (PT) and - International Normalised Ratio (INR)	Automated coagulation system: IL ACL Top 300 coagulation system

GHK Hospital Limited – Gleneagles Hospital Hong Kong, Department of Clinical Laboratory

港怡醫院 - 臨床化驗部

LG/F, Gleneagles Hospital Hong Kong, 1 Nam Fung Path, Wong Chuk Hang, Hong Kong

香港黃竹坑南風徑一號港怡醫院地下下一層

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Haematology (cont'd)	**Haematology – General** EDTA blood	Complete blood count including - Haemoglobin (HGB) - Haematocrit (HCT) - Leucocyte count (WBC count) - Leucocyte differential count - Mean corpuscular haemoglobin (MCH) - Mean corpuscular haemoglobin concentration (MCHC) - Mean corpuscular volume (MCV) - Platelet count - Red cell count - Red cell distribution width (RDW)	Sysmex XR-3000 Method as documented in WI_GLAB_766

Hong Kong Baptist Hospital – Pathology Department
香港浸信會醫院，病理化驗部

ADDRESS : LG2, Block D, Hong Kong Baptist Hospital, 222 Waterloo Road, Kowloon, Hong Kong
地址 香港九龍窩打老道222號香港浸信會醫院D座地庫二層

ENQUIRY : Mr Philip YAU Kwok Cheung
查詢 邱國彰先生

TELEPHONE : 2339 8922 / 5145 6502
電話

FAX : 2337 1658
傳真

E-MAIL : philipkcyau@hkbh.org.hk
電郵

WEBSITE ADDRESS : www.hkbh.org.hk
網址

CLIENTELE : Private hospitals
服務對象 私營醫院

Hong Kong Baptist Hospital – Pathology Department
香港浸信會醫院，病理化驗部

ADDRESS
地址
: LG2, Block D, Hong Kong Baptist Hospital, 222 Waterloo Road, Kowloon, Hong Kong
香港九龍窩打老道222號香港浸信會醫院D座地庫二層
(i) Anatomical Pathology Laboratory: LG2, Block E
(ii) Core Laboratory: LG2, Block D

LABORATORY DIRECTOR
化驗所主管
: **Pathologist Director 病理學主管:**
Dr Chris LAI Kin-chung
黎建宗醫生
MBChB (CUHK), FRCPA, FHKCPath, FHKAM (Pathology)

PATHOLOGIST IN CHARGE OF THE ACCREDITED DISCIPLINE
負責認可範疇的病理學專科醫生
: Anatomical Pathology 解剖病理學

Dr Chris LAI Kin-chung	黎建宗醫生	(Full-time 全職)

ACCREDITED TEST CATEGORY
認可測試類別
: **Medical Testing 醫務化驗**

Anatomical Pathology	解剖病理學
Chemical Pathology	化學病理學
Clinical Microbiology and Infection	臨床微生物學及傳染病
Haematology	血液學
Medical Genetics (Molecular Genetics)	醫學遺傳學 (分子遺傳學)

Hong Kong Baptist Hospital – Pathology Department

香港浸信會醫院，病理化驗部

Anatomical Pathology Laboratory: LG2, Block E, Hong Kong Baptist Hospital, 222 Waterloo Road, Kowloon, Hong Kong
香港九龍窩打老道222號香港浸信會醫院E座地庫二層

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology	**Cytopathology**		
	Fine needle aspirates	Fine needle aspiration cytology examination by H&E and Papanicolaou staining	Specimen preparation as documented in CY-SOP-REG-LIS, CY-SOP-SPR, CY-SOP-PRE
	Gynaecological specimens	Gynaecological cytology examination by Papanicolaou staining	Specimen preparation and routine staining by automated method) as documented in CY-SOP-PRE
	Non-gynaecological specimens	Non-gynaecological cytology examination by H&E, Papanicolaou and special staining	Specimen preparation and routine staining by automated method as documented in CY-SOP-PRE Special staining by manual method as documented in HP-SOP-STA Eosinophils by Haematoxylin and Eosin stain Giemsa stain Gram stain Grocott stain Pneumocystis jirovecii Haemosiderin by Perl's Pressian Blue Periodic Acid-Schiff (PAS) Urate Crystal by polarized light Ziehl-Neelsen stain

Hong Kong Baptist Hospital – Pathology Department

香港浸信會醫院，病理化驗部

Anatomical Pathology Laboratory: LG2, Block E, Hong Kong Baptist Hospital, 222 Waterloo Road, Kowloon, Hong Kong
香港九龍窩打老道222號香港浸信會醫院E座地庫二層

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology (cont'd)	**Histopathology** Surgical pathology and cytological specimens	Histology examination by H&E and special staining	Specimen preparation as documented in HP-SOP-SPR, HP-SOP-REG, HP-SOP-HAE, HP-SOP-HSB, HP-SOP-HAH, HP-SOP-TSP, HP-SOP-EMB, HP-SOP-SEC, HP-SOP-STA Special staining (manual method): Method as documented in HP-SOP-STA Acid and neutral mucins by combined Alcian blue-Periodic Acid-Schiff (PAS) Acid fast bacilli by Ziehl-Neelsen Acid mucins by Alcian blue Amyloid by Highman's Congo Red Calcium by Von Kossa silver Collagen and muscle by Masson's trichrome Connective tissues by Van Gieson stain Copper by Rubeanic Acid Elastic fibres by Verhoeff-van Gieson staining Fungi or Pneumocystis jiroveci by Grocott hexamine silver Glycogen by PAS ± Diastase Haemosiderin by Perl's Prussian Blue HBsAg by Shikata's Orcein Helicobacter by Giemsa stain Lipids by Oil red O Melanin and lipofuscins by Schmorl's stain Microbacteria by Gram's stain Mucin, capsule of Cryptococcus neoformans by Southgate's mucicarmine Mucins and glycogen by Periodic Acid-Schiff (PAS) Mucopolysaccharides by Colloidal iron technique Mycobacterium leprae by Wade-Fite Reticulin by Gordon and Sweet's technique Spirochaetes and helicobacter by Warthin-Starry
	Intra-operative frozen section for fresh tissue specimens	Histological examination by H&E and special staining	Specimen processing as documented in HP-SOP-FRZ
	Immunohistochemistry Histological specimens	Immunohistochemical examination for various antigen markers by Automated staining method	Slide preparation and staining as documented in HP-SOP-EQU-IHC-BON, HP-SOP-EQU-IHC-VEN and HP-SOP-IHC

Hong Kong Baptist Hospital – Pathology Department
香港浸信會醫院，病理化驗部
Anatomical Pathology Laboratory: LG2, Block E, Hong Kong Baptist Hospital, 222 Waterloo Road, Kowloon, Hong Kong
香港九龍窩打老道222號香港浸信會醫院E座地庫二層

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics	**Molecular Genetics (anatomical pathology)** Histological and cytological specimen	Epstein-Barr Virus-Encoded Small RNA (EBER) Detection by Chromogenic in-situ hybridisation (CISH)	Slide preparation and staining (automated method) by Leica Bond III immunostainer as documented in HP-SOP-ISH Detection System: Bond Polymer Refine Detection
		Kappa and Lambda mRNA Detection by Chromogenic in-situ hybridisation (CISH)	Slide preparation and staining (automated method) by Leica Bond III immunostainer as documented in HP-SOP-ISH Detection System: Bond Polymer Refine Detection

Hong Kong Baptist Hospital – Pathology Department

香港浸信會醫院，病理化驗部

Core Laboratory: LG2, Block D, Hong Kong Baptist Hospital, 222 Waterloo Road, Kowloon, Hong Kong
香港九龍窩打老道222號香港浸信會醫院D座地庫二層

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology	**General Chemistry** Serum	Albumin by Spectrophotometry	Roche cobas pro system, ALBP assay
		Albumin adjusted Calcium by Calculation	Roche cobas pro system (calculated from serum albumin and serum calcium)
		Albumin to globulin ratio by Calculation	Roche cobas pro system (calculated from serum albumin and serum Protein, Total)
		Alkaline Phosphatase by Spectrophotometry	Roche cobas pro system, ALP2 assay
		Alanine Aminotransferase by Spectrophotometry	Roche cobas pro system, ALTP assay
		Aspartate Aminotransferase (AST) by Spectrophotometry	Roche cobas pro system, ASTP assay
		Bilirubin, Total by Spectrophotometry	Roche cobas pro system, BILT3 assay
		Calcium by Spectrophotometry	Roche cobas pro system, CA2 assay
		Chloride by Potentiometry (indirect ion selective electrode)	Roche cobas pro system, ISE-CL assay
		Cholesterol, Total by Spectrophotometry	Roche cobas pro system, CHOL2 assay
		Cholesterol High Density Lipoprotein, (HDL-C) by Spectrophotometry	Roche cobas pro system, HDLC4 assay
		Cholesterol Low Density Lipoprotein (LDL-C) by Spectrophotometry	Roche cobas pro system, LDLC3 assay
		Creatinine by Spectrophotometry	Roche cobas pro system, CREP2 assay
		Estimated glomerular filtration rate (eGFR) by Calculation	Roche cobas pro system (calculated from serum creatinine using CKD-EPI (2009))

Hong Kong Baptist Hospital – Pathology Department

香港浸信會醫院，病理化驗部

Core Laboratory: LG2, Block D, Hong Kong Baptist Hospital, 222 Waterloo Road, Kowloon, Hong Kong
香港九龍窩打老道222號香港浸信會醫院D座地庫二層

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology (cont'd)	**General Chemistry (cont'd)**		
	Serum (cont'd)	Gamma Glutamyl Transferase (GGT) by Spectrophotometry	Roche cobas pro system, GGT-2 assay
		Globulin by Calculation	Roche cobas pro system (calculated from serum Protein, Total and serum albumin)
		Phosphorus by Spectrophotometry	Roche cobas pro system, PHOS2 assay
		Potassium by Potentiometry (indirect ion selective electrode)	Roche cobas pro system, ISE-K assay
		Protein, Total by Spectrophotometry	Roche cobas pro system, TP2 assay
		Sodium by Potentiometry (indirect ion selective electrode)	Roche cobas pro system, ISE-NA assay
		Triglyceride by Spectrophotometry	Roche cobas pro system, TRIGL assay
		Urea by Spectrophotometry	Roche cobas pro system, UREAL assay
		Uric acid by Spectrophotometry	Roche cobas pro system, UA2 assay
	Fluoride plasma	Glucose by Spectrophotometry	Roche cobas pro system, GLUC3 assay

Hong Kong Baptist Hospital – Pathology Department

香港浸信會醫院，病理化驗部

Core Laboratory: LG2, Block D, Hong Kong Baptist Hospital, 222 Waterloo Road, Kowloon, Hong Kong
香港九龍窩打老道222號香港浸信會醫院D座地庫二層

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology (cont'd)	**Hormones**		
	Serum	Thyroid stimulating hormone (TSH) by Immunoassay (Electrochemiluminescence label)	Roche cobas pro system, Elecsys TSH assay
		Thyroxine by Immunoassay (Electrochemiluminescence label)	Roche cobas pro system, Elecsys T4 assay
		Thyroxine, Free (FT4) by Immunoassay (Electrochemiluminescence label)	Roche cobas pro system, Elecsys FT4 IV assay
		Tri-iodothyronine by Immunoassay (Electrochemiluminescence label)	Roche cobas pro system, Elecsys T3 assay
		Tri-iodothyronine, Free (FT3) by Immunoassay (Electrochemiluminescence label)	Roche cobas pro system, Elecsys FT3 III assay
	Tumour Markers		
	Serum	Alpha-1-fetoprotein (AFP) by Immunoassay (Electrochemiluminescence label)	Roche cobas pro system, Elecsys AFP assay
		CA 125 by Immunoassay (Electrochemiluminescence label)	Roche cobas pro system, Elecsys CA 125 II assay
		CA 19-9 by Immunoassay (Electrochemiluminescence label)	Roche cobas pro system, Elecsys CA 19-9 assay
		Carcinoembryonic antigen (CEA) by Immunoassay (Electrochemiluminescence label)	Roche cobas pro system, Elecsys CEA assay
		Prostate specific antigen (PSA), Total by Immunoassay (Chemiluminescence label)	Abbott Alinity i System, Total PSA Reagent Kit

Hong Kong Baptist Hospital – Pathology Department

香港浸信會醫院，病理化驗部

Core Laboratory: LG2, Block D, Hong Kong Baptist Hospital, 222 Waterloo Road, Kowloon, Hong Kong
香港九龍窩打老道222號香港浸信會醫院D座地庫二層

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Clinical Microbiology and Infection	**Urinalysis and/or urine microscopy**		
	Urine	Urinalysis by automated method, including:	
		- Specific Gravity	Sysmex UC-3500
		- pH	Method as documented in
		- Protein	MB-SOP-XAM-UR Urinalysis
		- Sugar	MB-SOP-EQU-SYSMEX Sysmex UN-2000
		- Haemolysed Blood	
		- Nitrite	
		Urine formed elements by	
		- Automated urine microscopy system	Sysmex UF-5000
		- Microscopic examination with fixed volume in microtitre plate well	Method as documented in MB-SOP-XAM-UR Urinalysis MB-SOP-EQU-SYSMEX Sysmex UN-2000
	Virology – Serology		
	Serum	Hepatitis B virus surface antigen (HBsAg) by Immunoassay (Chemiluminescent label)	Abbott Alinity i System HBsAg Qualitative II assay Abbott Alinity i System HBsAg Qualitative II Confirmatory Assay
		Hepatitis C virus antibody (Anti-HCV) by Immunoassay (Chemiluminescent label)	Abbott Alinity i System Anti-HCV II assay
		Human immunodeficiency virus I & II antibody and p24 antigen by Immunoassay (Chemiluminescent label)	Abbott Alinity i System HIV Ag/Ab Combo assay

Hong Kong Baptist Hospital – Pathology Department

香港浸信會醫院，病理化驗部

Core Laboratory: LG2, Block D, Hong Kong Baptist Hospital, 222 Waterloo Road, Kowloon, Hong Kong
香港九龍窩打老道222號香港浸信會醫院D座地庫二層

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Haematology	**Blood Bank – General**		
	EDTA whole blood	ABO and D typing by	Bio-Rad IH-500 System
		Red cell agglutination, automated method	Method as documented in BB-SOP-BG-BR
		Red cell agglutination, manual method	Method as documented in BB-SOP-BG-MM
		Antibody screening by	
		Red cell agglutination	Bio-Rad IH-500 System and manual card method
			Method as documented in BB-SOP-ABS
	Coagulation		
	Citrate blood	Coagulation studies, automated including	Sysmex CN-6000
		Prothrombin Time (PT)	PT method as documented in HS-SOP-SCN-PT
		Activated partial thromboplastin time (APTT)	APTT method as documented in HS-SOP-SCN-APTT
	Haematology – General		
	EDTA whole blood	Complete blood count, automated, including:	
		Haematocrit (HCT)	Sysmex XN-3000
		Haemoglobin (HGB)	Method as documented in HS-SOP-CBC
		Leucocyte count (WBC)	
		Leucocyte differential count	
		Mean corpuscular haemoglobin (MCH)	
		Mean corpuscular haemoglobin concentration (MCHC)	
		Mean corpuscular volume (MCV)	
		Platelet count (PLT)	
		Red cell count (RBC)	
		Red cell distribution width (RDW)	
	Haematology – Special		
	EDTA whole blood	Haemoglobin A1c (HbA1c) by	
		Ion exchange high performance liquid chromatography	Bio-Rad D-10 Haemoglobin Testing System
			Method as documented in HS-SOP-HbA1c

Hong Kong Health Check and Medical Diagnostic Centre Ltd. – Hong Kong Health Check Medical Laboratory
香港體檢及醫學診斷中心有限公司 - 香港體檢醫學化驗中心

ADDRESS **地址**	:	6/F, HKHC Tower, 241-243 Nathan Road, Jordan, Kowloon 九龍佐敦彌敦道241-243號香港體檢中心6樓
ENQUIRY **查詢**	:	Mr Matthew LAW Chin-bong 羅展邦先生
TELEPHONE **電話**	:	2770 1321
FAX **傳真**	:	2385 1801
E-MAIL **電郵**	:	matthew.law@hkhc.com.hk
WEBSITE ADDRESS **網址**	:	www.hkhc.com.hk
CLIENTELE **服務對象**	:	Medical centres and clinics 醫療中心及診所

Contact details last updated on: 3 March 2022

Hong Kong Health Check and Medical Diagnostic Centre Limited – Hong Kong Health Check Medical Laboratory
香港體檢及醫學診斷中心有限公司 - 香港體檢醫學化驗中心

ADDRESS **地址**	:	6/F, HKHC Tower, 241-243 Nathan Road, Jordan, Kowloon 九龍佐敦彌敦道 241-243 號香港體檢中心 6 樓 (i) Core Laboratory, 6/F (ii) Molecular Laboratory, 5/F
LABORATORY DIRECTOR **化驗所主管**	:	**Biomedical Scientist Director 醫務科學主管:** Mr MA Siu-kit 馬少傑先生 MMedSci, BSc, Reg MLT I (HK)
ACCREDITED TEST CATEGORY **認可測試類別**	:	**Medical Testing 醫務化驗**

Chemical Pathology	化學病理學
Haematology	血液學
Medical Genetics (Molecular Genetics)	醫學遺傳學（分子遺傳學）

Hong Kong Health Check and Medical Diagnostic Centre Limited – Hong Kong Health Check Medical Laboratory
香港體檢及醫學診斷中心有限公司 - 香港體檢醫學化驗中心

Core Laboratory: 6/F, HKHC Tower, 241-243 Nathan Road, Jordan, Kowloon
九龍佐敦彌敦道 241-243 號香港體檢中心 6 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology	**General Chemistry**		
	Fluoride Plasma	Glucose by Spectrophotometry	Abbott Alinity c System, Glucose Assay
	Serum	Albumin by Spectrophotometry	Abbott Alinity c System, Albumin BCG2 Assay
		Alanine Aminotransferase (ALT) by Spectrophotometry	Abbott Alinity c System, Alanine Aminotransferase2 Assay
		Aspartate Aminotransferase (AST) by Spectrophotometry	Abbott Alinity c System, Aspartate Aminotransferase2 Assay
		Bilirubin, Total by Spectrophotometry	Abbott Alinity c System, Total Bilirubin2 Assay
		Calcium by Spectrophotometry	Abbott Alinity c System, Calcium Assay
		Chloride by Integrated Chip Technology	Abbott Alinity c System, ICT Sample Diluent
		Cholesterol, Total by Spectrophotometry	Abbott Alinity c System, Cholesterol2 Assay
		Cholesterol, HDL by Spectrophotometry	Abbott Alinity c System, Ultra HDL Assay
		Cholesterol, LDL by Immunoassay (colorimetric method)	Abbott Alinity c System, Direct LDL Assay
		Creatinine by Spectrophotometry	Abbott Alinity c System, Creatinine2 (Enzymatic Assay)
		Gamma Glutamyl Transferase (GGT) by Spectrophotometry	Abbott Alinity c System, Gamma Glutamyl Transferase2 Assay
		Phosphorus by Spectrophotometry	Abbott Alinity c System, Phosphorus Assay
		Potassium by Integrated Chip Technology	Abbott Alinity c System, ICT Sample Diluent

Hong Kong Health Check and Medical Diagnostic Centre Limited – Hong Kong Health Check Medical Laboratory
香港體檢及醫學診斷中心有限公司 - 香港體檢醫學化驗中心

Core Laboratory: 6/F, HKHC Tower, 241-243 Nathan Road, Jordan, Kowloon
九龍佐敦彌敦道 241-243 號香港體檢中心 6 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology (cont'd)	**General Chemistry** (cont'd)		
	Serum (cont'd)	Protein, Total by Spectrophotometry	Abbott Alinity c System, Total Protein2 Assay
		Sodium by Integrated Chip Technology	Abbott Alinity c System, ICT Sample Diluent
		Triglyceride by Spectrophotometry	Abbott Alinity c System, Triglyceride2 Assay
		Urea Nitrogen (BUN) by Spectrophotometry	Abbott Alinity c System, Urea Nitrogen Assay
		Uric acid by Spectrophotometry	Abbott Alinity c System, Uric Acid2 Assay
		Alkaline Phosphatase (ALK) by Spectrophotometry	Abbott Alinity c System, Alkaline Phosphatase2 Assay
	Special Chemistry		
	EDTA whole blood	Haemoglobin A1c (HbA1c) by High performance liquid chromatography	BioRad D10 Dual Program Haemoglobin Testing System

Hong Kong Health Check and Medical Diagnostic Centre Limited – Hong Kong Health Check Medical Laboratory
香港體檢及醫學診斷中心有限公司 - 香港體檢醫學化驗中心

Core Laboratory: 6/F, HKHC Tower, 241-243 Nathan Road, Jordan, Kowloon
九龍佐敦彌敦道 241-243 號香港體檢中心 6 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Haematology	**Haematology - General** EDTA whole blood	Complete blood count including - Haemoglobin - Haematocrit - Leucocyte count (WBC count) - Leucocyte differential count - Mean corpuscular volume (MCV) - Mean corpuscular haemoglobin (MCH) - Mean corpuscular haemoglobin concentration (MCHC) - Platelet count - Red cell count	Sysmex XN-1000
		Peripheral blood smear examination by Giemsa/Wright Stain	Slide prepared and stained by Sysmex SP-50 Method as documented in HKHC/TSOP73

Hong Kong Health Check and Medical Diagnostic Centre Limited – Hong Kong Health Check Medical Laboratory
香港體檢及醫學診斷中心有限公司 - 香港體檢醫學化驗中心

Molecular Laboratory: 5/F, HKHC Tower, 241-243 Nathan Road, Jordan, Kowloon
九龍佐敦彌敦道 241-243 號香港體檢中心 5 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Medical Genetics	**Molecular Genetics (microbiology)** Deep throat saliva, nasopharyngeal swab, nasal swab and throat swab	Detection of Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2), qualitative by Real-Time Reverse Transcription Polymerase Chain Reaction (Target region: N and ORF1ab genes)	Nucleic acid extraction, amplification and detection as documented in HKHC/TSOP65 using Yaneng Bioscience (ShenZhen) Co. Ltd. Nucleic Acid Extraction Reagent Kit (MNP-16C) and Daan Gene Co. Ltd. Detection Kit for 2019 Novel Coronavirus (2019-nCoV) RNA (PCR-Fluorescence Probing)

St. Paul's Hospital – Pathology Department
聖保祿醫院，病理化驗部

ADDRESS : 6/F, Block B, St. Paul's Hospital, 2 Eastern Hospital Road, Causeway Bay, Hong Kong
地址 香港銅鑼灣東院道2號聖保祿醫院B座6樓

ENQUIRY : Ms CHE Man-yin
查詢 池敏妍女士

TELEPHONE : 2830 3977
電話

FAX : 2837 5226
傳真

E-MAIL : my.che@stpaul.org.hk
電郵

WEBSITE ADDRESS : www.stpaul.org.hk
網址

CLIENTELE : Private hospitals
服務對象 私營醫院

St. Paul's Hospital – Pathology Department
聖保祿醫院，病理化驗部

ADDRESS **地址**	:	6/F, Block B, St. Paul's Hospital, 2 Eastern Hospital Road, Causeway Bay, Hong Kong 香港銅鑼灣東院道 2 號聖保祿醫院 B 座 6 樓
LABORATORY DIRECTOR **化驗所主管**	:	**Pathologist Director 病理學主管:** Dr YUEN Siu-tsan 袁兆燦醫生 MBBS (HK), MD (HK), FHKAM (Pathology), FHKCPath, FRCPath
PATHOLOGIST IN CHARGE OF THE ACCREDITED DISCIPLINE **負責認可範疇的病理學專科醫生**	:	Anatomical Pathology 解剖病理學 Dr YUEN Siu-tsan 袁兆燦醫生 (Full-time 全職)
ACCREDITED TEST CATEGORY **認可測試類別**	:	**Medical Testing** **醫務化驗** Anatomical Pathology 解剖病理學 Medical Genetics (Molecular Genetics) 醫學遺傳學 (分子遺傳學)

St. Paul's Hospital – Pathology Department

聖保祿醫院，病理化驗部

6/F, Block B, St. Paul's Hospital, 2 Eastern Hospital Road, Causeway Bay, Hong Kong

香港銅鑼灣東院道2號聖保祿醫院B座6樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology	**Histopathology** Surgical pathology specimens	Histology examination by H&E and special staining	H&E staining using Leica (ST5020): Method as documented in OP-HIST-STA-001 Special staining (manual method): Method as documented in OP-HIST-STA-001 Acid Fast Bacilli by Ziehl-Neelsen Method Acid mucins by Alcian Blue Acidic mucins by Southgate's Mucicarmine Acidic and neutral mucins by Alcian Blue/ Periodic Acid Schiff Amyloid by Crystal Violet / Highman's Congo Red Bacteria by Gram Stain Basement Membrane by Periodic Acid Schiff-Methenamine Calcium Salts by Von Kossa Technique Chromaffin Granules by Giemsa Stain Collagen and Fibrin by Martius Yellow-Scarlet-Aniline Blue Trichrome (Gomori's One-Step) Elastic fibres by Verhoeff's Van Gieson Stain Eosinophils by Carbol Chromotrope Fungi by Grocott's Methenamine Silver Glycol groups by Periodic Acid Schiff (Digestion) Haemosiderin by Perls' Prussian Blue Helicobacter pylori by Giemsa Stain HBsAg and elastic fibres by Orcien Method Leprosy Bacilli by Wade-Fite Technique Lipid by Oil Red O Matachromatic Substances by Toluidine Blue Melanin by Schmorl's Reaction Mucins by Southgate's Mucicarmine Reticulin by Gordon & Sweet's Method (Modified) Spirochetes by Modified Warthin-Starry Method (pH 4.0)

St. Paul's Hospital – Pathology Department

聖保祿醫院，病理化驗部

6/F, Block B, St. Paul's Hospital, 2 Eastern Hospital Road, Causeway Bay, Hong Kong

香港銅鑼灣東院道2號聖保祿醫院B座6樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology (cont'd)	**Histopathology (cont'd)**		
	Intra-operative frozen section for fresh tissue specimens and biopsies	Histology examination by H&E staining	Specimen preparation and Haematoxylin and Eosin staining: Method as documented in OP-HIST-IFS-001
	Immunohistochemistry		
	Renal and skin biopsies	Immunofluorescence examination by manual method	Specimen preparation and staining by Direct Immunofluorescence: Method as documented in OP-HIST-IMF-001-01 For IgA / IgM / IgG / Fibrinogen / Complement 3 / C1q / Kappa / Lambda / Albumin
	Histological specimens	Immunohistochemical examination for various antigen markers by automated method	Slide preparation and staining as documented in SOP OP-HIST-IHC-001 Antigen retrieval: heat-induced epitope retrieval Detection system: BOND Polymer Refine Detection

St. Paul's Hospital – Pathology Department

聖保祿醫院，病理化驗部

6/F, Block B, St. Paul's Hospital, 2 Eastern Hospital Road, Causeway Bay, Hong Kong

香港銅鑼灣東院道2號聖保祿醫院B座6樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Medical Genetics	**Molecular Genetics (microbiology)**		
	Deep throat saliva, Nasopharyngeal swab and throat swab	Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) – detection by Real time Multiplex Polymerase Chain Reaction, qualitative	
		(Target regions: E gene and N2 gene)	Nucleic acid extraction, amplification and detection as documented in OP-MBIO-PCR-015
		(Target regions: N gene and Nsp2 gene)	Nucleic acid extraction, amplification and detection as documented in OP-MBIO-PCR-018

Precious Blood Hospital (Caritas) – Clinical Pathology Laboratory
寶血醫院(明愛)臨床醫學化驗部

ADDRESS **地址**	:	4/F, Precious Blood Hospital (Caritas), 113 Castle Peak Road, Shamshuipo, Kowloon, Hong Kong 香港九龍深水埗青山道 113 號寶血醫院(明愛) 4 樓
ENQUIRY **查詢**	:	Mr LAM Siu-fung 林少峯先生
TELEPHONE **電話**	:	3971 9937
FAX **傳真**	:	2387 2907
E-MAIL **電郵**	:	lab@pbh.hk
CLIENTELE **服務對象**	:	Private hospitals and clinics 私營醫院和診所

Precious Blood Hospital (Caritas) – Clinical Pathology Laboratory
寶血醫院(明愛)臨床醫學化驗部

ADDRESS **地址**	:	4/F, Precious Blood Hospital (Caritas), 113 Castle Peak Road, Shamshuipo, Kowloon, Hong Kong 香港九龍深水埗青山道 113 號寶血醫院(明愛) 4 樓
LABORATORY DIRECTOR **化驗所主管**	:	**Biomedical Scientist Director 醫務科學主管:** Mr LAM Siu-fung 林少峯先生 MSc, BSc, Reg Part I MLT
ACCREDITED TEST CATEGORY **認可測試類別**	:	**Medical Testing** **醫務化驗** Clinical Microbiology and Infection 臨床微生物學及傳染病 Haematology 血液學

Precious Blood Hospital (Caritas) – Clinical Pathology Laboratory
寶血醫院(明愛)臨床醫學化驗部
4/F, Precious Blood Hospital (Caritas), 113 Castle Peak Road, Shamshuipo, Kowloon, Hong Kong
香港九龍深水埗青山道 113 號寶血醫院(明愛) 4樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Clinical Microbiology and Infection	**Urinalysis and/or urine microscopy**		
	Urine	Urinalysis by dipstick method, including: - Bilirubin - Blood - Glucose - Ketone - Leukocyte - Nitrate - pH - Protein - Specific Gravity - Urobilinogen	Automated urinalysis by Mindray EU8000 Urinalysis Automation System Method as documented in MIC-02 Urine Routine Analysis
		Urine formed elements by Microscopic examination	Automated urinalysis by Mindray EU8000 Urinalysis Automation System Method as documented in MIC-02 Urine Routine Analysis
	Virology – Serology		
	Serum	Severe Acute Respiratory Syndrome Coronavirus 2 (SARS CoV-2) Antibody (IgG), quantitative by Immunoassay (Chemiluminescent label)	Abbott Alinity i System SARS-CoV-2- IgG II Quant assay

.vs.

Precious Blood Hospital (Caritas) – Clinical Pathology Laboratory
寶血醫院(明愛)臨床醫學化驗部
4/F, Precious Blood Hospital (Caritas), 113 Castle Peak Road, Shamshuipo, Kowloon, Hong Kong
香港九龍深水埗青山道 113 號寶血醫院(明愛) 4樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Haematology	**General Haematology** EDTA whole blood	Complete blood count including - Haemoglobin - Haematocrit - Leucocyte count (WBC count) - Leucocyte differential count - Mean corpuscular volume (MCV) - Mean corpuscular haemoglobin (MCH) - Mean corpuscular haemoglobin concentration (MCHC) - Platelet Count - Red cell count	Mindray BC-6200

Precious Blood Hospital (Caritas) – Clinical Pathology Laboratory
寶血醫院(明愛)臨床醫學化驗部
4/F, Precious Blood Hospital (Caritas), 113 Castle Peak Road, Shamshuipo, Kowloon, Hong Kong
香港九龍深水埗青山道 113 號寶血醫院(明愛) 4 樓

Summary of Voluntary Suspension

.vs. denotes the examination for which the accreditation has been voluntarily suspended with effect from 31 October 2024. (Notification Letter No. HOKLAS849S-8)

Xcelom Limited – Xcelom Microbiology Laboratory
雅士能基因科技有限公司 - 雅士能微生物學實驗室

ADDRESS **地址**	:	Room 819, 8/F & 10/F, Metropole Square, 2 On Yiu Street, Shatin, New Territories, Hong Kong 香港新界沙田安耀街2號新都廣場8樓819室及10樓
ENQUIRY **查詢**	:	Mr CHEUNG Wai-hung 張偉鴻先生
TELEPHONE **電話**	:	3619 6220
FAX **傳真**	:	3565 0112
E-MAIL **電郵**	:	sunny.cheung@xcelom.com
WEBSITE ADDRESS **網址**	:	www.xcelom.com
CLIENTELE **服務對象**	:	Private physicians, medical centres, private and public hospitals and private medical laboratories 私家醫生，醫療中心，私營及公營醫院和私營醫務化驗所

Xcelom Limited – Xcelom Microbiology Laboratory
雅士能基因科技有限公司 - 雅士能微生物學實驗

ADDRESS **地址**	:	Room 819, 8/F & 10/F, Metropole Square, 2 On Yiu Street, Shatin, New Territories, Hong Kong 香港新界沙田安耀街2號新都廣場8樓819室及10樓
LABORATORY DIRECTOR **化驗所主管**	:	**Biomedical Scientist Director 醫務科學主管:** Dr Eric LAW Lap-kay 羅立基博士 PhD (CUHK), FHKSCC (HK), FRCPath (UK)
ACCREDITED TEST CATEGORY **認可測試類別**	:	**Medical Testing 醫務化驗** Medical Genetics (Molecular Genetics) 醫學遺傳學 (分子遺傳學)

Xcelom Limited – Xcelom Microbiology Laboratory
雅士能基因科技有限公司 - 雅士能微生物學實驗室
Room 819, 8/F & 10/F, Metropole Square, 2 On Yiu Street, Shatin, New Territories, Hong Kong
香港新界沙田安耀街 2 號新都廣場 8 樓 819 室及 10 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Medical Genetics	**Molecular Genetics (microbiology)** Nasal swabs, throat swabs, deep throat saliva, oropharyngeal swabs	Detection of Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2), qualitative by Real-time Polymerase Chain Reaction (Target regions: N gene and ORF1b gene)	Nucleic acid extraction, amplification and detection as documented in LAB-SOP-0063

HKSH Medical Group Limited – Department of Pathology
養和醫療集團有限公司 – 病理學部

ADDRESS **地址**	:	1/F, Li Shu Fan Block, Hong Kong Sanatorium & Hospital, 2 Village Road, Happy Valley, Hong Kong 香港跑馬地山村道二號養和醫院李樹芬院一樓
ENQUIRY **查詢**	:	Mr LEUNG Chin-pang 梁展鵬先生
TELEPHONE **電話**	:	2835 8798
FAX **傳真**	:	2892 7502
E-MAIL **電郵**	:	lab@hksh.com
WEBSITE ADDRESS **網址**	:	www.hksh.com
CLIENTELE **服務對象**	:	Private hospitals and clinics 私營醫院和診所

HKSH Medical Group Limited – Department of Pathology
養和醫療集團有限公司 – 病理學部

ADDRESS
地址

Main facility : G/F, 1/F & 3/F, Li Shu Fan Block, Hong Kong Sanatorium & Hospital, 2 Village Road, Happy Valley, Hong Kong
香港跑馬地山村道二號養和醫院李樹芬院地下、一樓及三樓

Branch facility : 5/F, HKSH Eastern Building, 3 Tung Wong Road, A Kung Ngam, Shau Kei Wan, Hong Kong
香港筲箕灣亞公岩東旺道三號養和東區大樓五樓

LABORATORY DIRECTOR
化驗所主管 : **Pathologist Director 病理學主管:**
Dr Edmond MA Shiu-kwan
馬紹鈞醫生
MBBS(HK), MD(HK), MRCP(UK), FRCP(Edin), FRCP (London), FRCP RCPS (Glasg), FRCPath, FRCPA, FHKCPath, FHKAM (Pathology)

ACCREDITED TEST CATEGORY
認可測試類別 : **Medical Testing 醫務化驗**

Chemical Pathology	化學病理學
Clinical Microbiology and Infection	臨床微生物學及傳染病
Haematology	血液學
Immunology	免疫學
Medical Genetics (Molecular Genetics)	醫學遺傳學 (分子遺傳學)

HKSH Medical Group Limited – Department of Pathology
養和醫療集團有限公司 – 病理學部
1/F, Li Shu Fan Block, Hong Kong Sanatorium & Hospital, 2 Village Road, Happy Valley, Hong Kong
香港跑馬地山村道二號養和醫院李樹芬院一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類**	**SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性**	**METHOD OR TECHNIQUE USED 方法或應用技術**
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology	**Blood gases and co-oximetry**		
	Heparinised whole blood	Blood Gas include:	
		pCO_2 by Potentiometry	GEM Premier 5000
		pH by Potentiometry	GEM Premier 5000
		pO_2 by Amperometry	GEM Premier 5000
	General Chemistry		
	Heparinised plasma	Alanine aminotransferase (ALT) by Spectrophotometry	Roche cobas pro (C503) system, ALTP2 assay
		Albumin by Spectrophotometry	Roche cobas pro (C503) system, Albumin (ALB2) assay
		Alkaline phosphatase (ALP) by Spectrophotometry	Roche cobas pro (C503) system, ALP2 assay
		Amylase by Spectrophotometry	Roach cobas pro (C503) system, Amylase (AMYL2) assay
		Aspartate aminotransferase (AST) by Spectrophotometry	Roche cobas pro (C503) system, ASTP2 assay
		Bicarbonate by Spectrophotometry	Roche cobas pro (C503) system, Bicarbonate (CO2-L) assay
		Bilirubin, conjugated by Spectrophotometry	Roche cobas pro (C503) system, Conjugated bilirubin (BILD2) assay
		Bilirubin, total by Spectrophotometry	Roche cobas pro (C503) system, Total bilirubin (BILT3) assay
		Calcium by Spectrophotometry	Roche cobas pro (C503) system, Calcium (CA2) assay
		Calcium, albumin corrected by Calculation	Roche cobas pro (C503) system, Calculated from calcium and albumin

HKSH Medical Group Limited – Department of Pathology
養和醫療集團有限公司 – 病理學部
1/F, Li Shu Fan Block, Hong Kong Sanatorium & Hospital, 2 Village Road, Happy Valley, Hong Kong
香港跑馬地山村道二號養和醫院李樹芬院一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類**	**SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性**	**METHOD OR TECHNIQUE USED 方法或應用技術**
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology (cont'd)	**General Chemistry (cont'd)**		
	Heparinised whole blood	Calcium, ionised by Ion-selective electrode	GEM Premier 5000
	Heparinised plasma	Chloride (Cl) by Indirect ion-selective electrode (ISE)	Roche cobas po (C503) system, Cl ion-selective electrode
		Cholesterol, total by Spectrophotometry	Roche cobas pro (C503) system, Cholesterol (CHOL2) assay
		High density lipoprotein cholesterol (HDL-C) by Spectrophotometry	Roche cobas pro (C503) system, HDLC4 assay
		Non High density lipoprotein cholesterol by Calculation	Roche cobas pro (C503) system, Calculated from Total cholesterol and HDL-C
		Low density lipoprotein cholesterol (LDL-C) by Spectrophotometry	Roche cobas pro (C503) system, LDLC3 assay
		Cholesterol, total-to-HDL-C ratio by Calculation	Roche cobas pro (C503) system, Calculated from total cholesterol and HDL-C
		Creatine Kinase (CK) by Spectrophotometry	Roche cobas pro (C503) system, CK assay
		Creatine Kinase MB isoenzyme (CKMB) by Immunoassay (Chemiluminescent label)	Roche cobas pro (C503) system, CKMB assay
		Creatinine by Spectrophotometry	Roche cobas pro (C503) system, Creatinine (CREJ2) assay
		Gamma Glutamyl Transferase (GGT) by Spectrophotometry	Roche cobas pro (C503) system, GGT2 assay
		Globulin by Calculation	Roche cobas pro (C503) system, Calculated from total protein and albumin

HKSH Medical Group Limited – Department of Pathology
養和醫療集團有限公司 – 病理學部
1/F, Li Shu Fan Block, Hong Kong Sanatorium & Hospital, 2 Village Road, Happy Valley, Hong Kong
香港跑馬地山村道二號養和醫院李樹芬院一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類**	**SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性**	**METHOD OR TECHNIQUE USED 方法或應用技術**
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology (cont'd)	**General Chemistry (cont'd)** Heparinised plasma (cont'd)	Glucose by Spectrophotometry	Roche cobas pro (C503) system, Glucose (GLUC3) assay
		Inorganic phosphate by Spectrophotometry	Roche cobas pro (C503) system, Inorganic phosphate (PHOS2) assay
		Iron by Spectrophotometry	Roche cobas pro (C503) system, Iron (IRON2) assay
		Lactate dehydrogenase (LDH) by Spectrophotometry	Roche cobas pro (C503) system, LDH (LDHI2) assay
		Magnesium by Spectrophotometry	Roche cobas pro (C503) system, Magnesium (MG2) assay
		Potassium (K) by Indirect ion-selective electrode (ISE)	Roche cobas pro (C503) system, K ion-selective electrode
		Protein, total by Spectrophotometry	Roche cobas pro (C503) system, Total protein (TP2) assay
		Sodium (Na) by Indirect ion-selective electrode (ISE)	Roche cobas pro (C503) system, Na ion-selective electrode
		Triglycerides by Spectrophotometry	Roche cobas pro (C503) system, Triglycerides (TRIGL) assay
		Urea by Spectrophotometry	Roche cobas pro (C503) system, Urea (UREAL) assay
		Uric acid by Spectrophotometry	Roche cobas pro (C503) system, Uric acid (UA2) assay

HKSH Medical Group Limited – Department of Pathology
養和醫療集團有限公司 – 病理學部
1/F, Li Shu Fan Block, Hong Kong Sanatorium & Hospital, 2 Village Road, Happy Valley, Hong Kong
香港跑馬地山村道二號養和醫院李樹芬院一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類**	**SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性**	**METHOD OR TECHNIQUE USED 方法或應用技術**
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology (cont'd)	**Hormones**		
	Heparinised plasma	Estradiol (E2) by Immunoassay (Chemiluminescent label)	Roche cobas pro (e801) system, Elecsys Estradiol III assay
		Follicle stimulating hormone (FSH) by Immunoassay (Chemiluminescent label)	Roche cobas pro (e801) system, Elecsys FSH assay
		Lutinizing hormone (LH) by Immunoassay (Chemiluminescent label)	Roche cobas pro (e801) system, Elecsys LH assay
	EDTA plasma	Parathyroid hormone (PTH) by Immunoassay (Chemiluminescent label)	Roche cobas pro (e801) system, Elecsys PTH assay
	Heparinised plasma	Progesterone by Immunoassay (Chemiluminescent label)	Roche cobas pro (e801) system, Elecsys Progesterone III
		Prolactin by Immunoassay (Chemiluminescent label)	Roche cobas pro (e801) system, Elecsys Prolactin II assay
		Thyroid stimulating hormone (TSH) by Immunoassay (Chemiluminescent label)	Roche cobas pro (e801) system, Elecsys TSH assay
		Thyroxine, free (FT4) by Immunoassay (Chemiluminescent label)	Roche cobas pro (e801) system, Elecsys FT4 IV assay
		Triiodothyronine, free (FT3) by Immunoassay (Chemiluminescent label)	Roche cobas pro (e801) system, Elecsys FT3 III assay

HKSH Medical Group Limited – Department of Pathology
養和醫療集團有限公司 – 病理學部
1/F, Li Shu Fan Block, Hong Kong Sanatorium & Hospital, 2 Village Road, Happy Valley, Hong Kong
香港跑馬地山村道二號養和醫院李樹芬院一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類**	**SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性**	**METHOD OR TECHNIQUE USED 方法或應用技術**
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology (cont'd)	**Special Chemistry**		
	Stool	Fecal Occult blood, automated by Fecal Immunochemical Test (FIT)	Methods as documented in Operation Manual of Stool Routine C1.3.1.8.209-LAB-MI-D-WI Operation manual of OC Sensor Pledia C1.3.1.8.225-LAB-MI-D-WI OC Sensor Pledia
	Tumour Markers		
	Heparinised plasma	Alpha-fetoprotein (AFP) by Immunoassay (Chemiluminescent label)	Roche cobas pro (e801) systgem. Elecsys AFP assay
	Serum	Carcinoembryonic antigen (CEA) by Immunoassay (Chemiluminescent label)	Abbott Alinity i system, CEA assay
		Prostate specific antigen, total (PSA) by Immunoassay (Chemiluminescent label)	Abbott Alinity i system, PSA assay
		Prostate specific antigen, free (FPSA) by Immunoassay (Chemiluminescent label)	Abbott Alinity i system, FPSA assay

HKSH Medical Group Limited – Department of Pathology
養和醫療集團有限公司 – 病理學部
1/F, Li Shu Fan Block, Hong Kong Sanatorium & Hospital, 2 Village Road, Happy Valley, Hong Kong
香港跑馬地山村道二號養和醫院李樹芬院一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類**	**SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性**	**METHOD OR TECHNIQUE USED 方法或應用技術**
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection	**Bacteriology - Serology**		
	Serum	*Brucella* antibody by	
		Latex agglutination test, manual	Method as documented in C1.3.1.7.256-LAB-IM-D-WI
		Helicobacter pylori antibody (IgG) by	
		Lateral flow, manual method	Method as documented in C1.3.1.7.262-LAB-IM-D-WI
		Heterophile antibody IgM by	
		Monospot test, manual method	Method as documented in C1.3.1.7.263-LAB-IM-D-WI
		Chlamydia pneumonia antibodies (IgG and IgM) by	
		Enzyme-linked immunosorbent assay (ELISA)	Euroimmun analyser I Anti-Chlamydia pneumoniae ELISA (IgG) and (IgM) Method as documented in C1.3.1.7.219-LAB-IM-D-WI
		Chlamydia trachomatis antibody (IgG) by	
		Enzyme-linked immunosorbent assay (ELISA)	Euroimmun analyser I Anti-Chlamydia trachomatis ELISA (IgG) Method as documented in C1.3.1.7.220-LAB-IM-D-WI
	Urine	Detection of *Legionella* antigen in urine by	
		Lateral flow, manual method	Method as documented in C1.3.1.7.264-LAB-IM-D-WI
		Detection of *Streptococcus pneumonia* by	
		Lateral flow, manual method	Method as documented in C1.3.1.7.267-LAB-IM-D-WI
	Mycobacteriology - Identification and/or sensitivity test		
	Plasma	*Mycobacterium tuberculosis* by	
		Interferon-gamma (IFN-γ) release assay (IGRA)	DS2 Automated ELISA Processing System QIAGEN QuantiFERON-TB Gold Plus (QFT) test Method as documented in C1.3.1.7.227-LAB-IM-D-WI
	Mycology - Serology		
	Serum	Cryptococcal antigen by	
		Lateral flow, manual method	Method as documented in C1.3.1.7.258-LAB-IM-D-WI

HKSH Medical Group Limited – Department of Pathology
養和醫療集團有限公司 – 病理學部
1/F, Li Shu Fan Block, Hong Kong Sanatorium & Hospital, 2 Village Road, Happy Valley, Hong Kong
香港跑馬地山村道二號養和醫院李樹芬院一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類**	**SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性**	**METHOD OR TECHNIQUE USED 方法或應用技術**
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Parasitology - Microscopy and Staining**		
	Stool	Microscopy for enteric parasites by Concentration method	Methods as documented in Operation Manual of Stool Routine C1.3.1.8.209-LAB-MI-D-WI
		Microscopy for Amoeba by Direct smear and concentration method	Methods as documented in Operation Manual of Stool Routine C1.3.1.8.209-LAB-MI-D-WI
		Microscopy for fecal protozoa by Modified iron hematoxylin stain	Methods as documented in Operation Manual of Stool Routine C1.3.1.8.209-LAB-MI-D-WI
	Parasitology – Serology		
	Serum	*Entamoeba histolytica* antibody (IgG) by Enzyme-linked immunosorbent assay (ELISA) Manual method	Method as documented in C1.3.1.7.260-LAB-IM-D-WI using Tecan reader
		Strongyloides antibody (IgG) by Enzyme-linked immunosorbent assay (ELISA)	Euroimmun analyser I Anti-Strongyloides ELISA (IgG) Method as documented in C1.3.1.7.253-LAB-IM-D-WI
	Syphilis – Serology		
	Serum	Reagin antibodies in response to Treponemal infection by Rapid Plasma Reagin (RPR), manual method	Method as documented in C1.3.1.7.271-LAB-IM-D-WI

HKSH Medical Group Limited – Department of Pathology
養和醫療集團有限公司 – 病理學部
1/F, Li Shu Fan Block, Hong Kong Sanatorium & Hospital, 2 Village Road, Happy Valley, Hong Kong
香港跑馬地山村道二號養和醫院李樹芬院一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類**	**SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性**	**METHOD OR TECHNIQUE USED 方法或應用技術**
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Urinalysis and/or urine microscopy** Urine	Urine chemical test by automated method, including: - Specific gravity - pH - Glucose - Protein - Ketone bodies - Bilirubin - Urobilinogen - Nitrite - Leucocyte - Blood	Methods as documented in Operation Manual of Urine Routine C1.3.1.8.208-LAB-MI-D-WI Operation Manual of Sysmex UC-3500 Urine Chemistry Analyzer C1.3.1.8.246-LAB-MI-D-WI Operation manual of Clinitek Advantus Urine Chemistry Analyzer C1.3.1.8.226-LAB-MI-D-WI Sysmex UC-3500 Clinitek Advantus
		Urine formed elements by Microscopic examination with fixed volume in FAST READ 102 counting chamber	Methods as documented in Operation Manual of Urine Routine C1.3.1.8.208-LAB-MI-D-WI
		Urine formed elements, automated by Microscopic examination	Methods as documented in Operation Manual of Urine Routine C1.3.1.8.208-LAB-MI-D-WI Operation manual of Sysmex UF-5000 Urine Particle C1.3.1.8.245-LAB-MI-D-WI Sysmex UF-5000

HKSH Medical Group Limited – Department of Pathology
養和醫療集團有限公司 – 病理學部
1/F, Li Shu Fan Block, Hong Kong Sanatorium & Hospital, 2 Village Road, Happy Valley, Hong Kong
香港跑馬地山村道二號養和醫院李樹芬院一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類**	**SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性**	**METHOD OR TECHNIQUE USED 方法或應用技術**
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Virology – Serology** Serum	Dengue virus antibodies (IgG and IgM) by Lateral flow, manual method	Method as documented in C1.3.1.7.259-LAB-IM-D-WI
		Dengue virus antigen NS1 by Lateral flow, manual method	Method as documented in C1.3.1.7.259-LAB-IM-D-WI
		Epstein-Barr virus antibodies by Immunoblot test (for IgG and IgM antibodies of Infectious Mononucleosis)	EUROBlotOne system EUROLINE Anti-EBV Profile 2 (IgG) and (IgM) Method as documented in C1.3.1.7.221-LAB-IM-D-WI
		Herpes Simplex Virus-1 antibody (IgG) and Herpes Simplex Virus-2 antibody (IgG) by Enzyme-linked immunosorbent assay (ELISA)	Euroimmun analyser I Anti-HSV-1 (gC1) ELISA (IgG) Anti-HSV-2 (gG2) ELISA (IgG) Method as documented in C1.3.1.7.223-LAB-IM-D-WI and C1.3.1.7.224-LAB-IM-D-WI
		Measles virus antibody (IgG) by Enzyme-linked fluorescent assay (ELFA)	bioMérieux VIDAS 3 analyser, VIDAS Measles IgG Method as documented in C1.3.1.7.265-LAB-IM-D-WI
		Parvovirus B19 antibody by Enzyme-linked immunosorbent assay (ELISA)	Euroimmun analyser I Anti-Parvovirus B19 ELISA (IgG) and (IgM) Method as documented in C1.3.1.7.226-LAB-IM-D-WI
		Varicella zoster virus antibody (IgG) by Enzyme-linked fluorescent assay (ELFA)	bioMérieux VIDAS 3 analyser, VIDAS Varicella zoster IgG Method as documented in C1.3.1.7.270-LAB-IM-D-WI
		Hepatitis A virus antibody IgG (Anti-HAV IgG) by Immunoassay (chemiluminescent label)	Abbott Alinity i system Anti-HAV IgG assay
		Hepatitis A virus antibody IgM (Anti-HAV IgM) by Immunoassay (chemiluminescent label)	Abbott Alinity i system Anti-HAV IgM assay

HKSH Medical Group Limited – Department of Pathology
養和醫療集團有限公司 – 病理學部
1/F, Li Shu Fan Block, Hong Kong Sanatorium & Hospital, 2 Village Road, Happy Valley, Hong Kong
香港跑馬地山村道二號養和醫院李樹芬院一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類**	**SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性**	**METHOD OR TECHNIQUE USED 方法或應用技術**
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Virology – Serology (cont'd)** Serum (cont'd)	Hepatitis B virus core antibody IgM (Anti-HBc IgM) by Immunoassay (chemiluminescent label)	Abbott Alinity i system Anti-HBc IgM assay
		Hepatitis B virus core total antibody (Anti-HBc) by Immunoassay (chemiluminescent label)	Abbott Alinity i system Anti-HBc assay
		Hepatitis B virus envelop antibody (Anti-HBe) by Immunoassay (chemiluminescent label)	Abbott Alinity i system Anti-HBe assay
		Hepatitis B virus envelop antigen (HBeAg) by Immunoassay (chemiluminescent label)	Abbott Alinity i system HBeAg assay
		Hepatitis B virus surface antibody (Anti-HBs) by Immunoassay (chemiluminescent label)	Abbott Alinity i system Anti-HBs assay
		Hepatitis B virus surface antigen (HBsAg), qualitative by Immunoassay (chemiluminescent label)	Abbott Alinity i system HBsAg assay
		Hepatitis C virus antibody (Anti-HCV) by Immunoassay (chemiluminescent label)	Abbott Alinity i System Anti-HCV assay
		Rubella virus IgG by Immunoassay (chemiluminescent label)	Abbott Alinity i System Rubella IgG assay
		Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) antibody (IgG), quantitative by Immunoassay (chemiluminescent label)	Abbott Alinity i System SARS-CoV-2 IgG II quantitative assay

HKSH Medical Group Limited – Department of Pathology
養和醫療集團有限公司 – 病理學部
1/F & 3/F, Li Shu Fan Block, Hong Kong Sanatorium & Hospital, 2 Village Road, Happy Valley, Hong Kong
香港跑馬地山村道二號養和醫院李樹芬院一樓及三樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類**	**SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性**	**METHOD OR TECHNIQUE USED 方法或應用技術**
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology	**Blood Bank – General**		
	EDTA whole blood	ABO and Rh(D) typing by	
		- Red cell agglutination, automated method	Method as documented in C1.3.1.2.200-LAB-BB-D-WI using Ortho Vision Analyser
		- Red cell agglutination, manual method	Tube method and slide plate technique as documented in C1.3.1.2.315-LAB-BB-D-WI, C1.3.1.2.316-LAB-BB-D-WI & C1.3.1.2.317-LAB-BB-D-WI
		Antibody screening by	
		- Red cell agglutination, automated method	Method as documented in C1.3.1.2.200-LAB-BB-D-WI using Ortho Vision Analyser
		- Red cell agglutination, manual method	Tube method as documented in C1.3.1.2.319-LAB-BB-D-
		Crossmatch by	
		- Electronic crossmatch	Method as documented in C1.3.1.2.200-LAB-BB-D-WI & C1.3.1.2.304-LAB-BB-D-WI using Ortho Vision Analyser
		- Column agglutination technology comprised of glass beads	Method as documented in C1.3.1.2.200-LAB-BB-D-WI using Ortho Vision Analyser
		- Red cell agglutination, automated method	Method as documented in C1.3.1.2.200-LAB-BB-D-WI using Ortho Vision Analyser
		- Red cell agglutination, manual method	Tube method as documented in C1.3.1.2.321-LAB-BB-D-WI
	Coagulation		
	Citrate blood	Coagulation studies by automated clotting assay including: - Prothrombin Time (PT) - Activated partial thromboplastin time (APTT)	Sysmex CS-2500

HKSH Medical Group Limited – Department of Pathology
養和醫療集團有限公司 – 病理學部
1/F & 3/F, Li Shu Fan Block, Hong Kong Sanatorium & Hospital, 2 Village Road, Happy Valley, Hong Kong
香港跑馬地山村道二號養和醫院李樹芬院一樓及三樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類**	**SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性**	**METHOD OR TECHNIQUE USED 方法或應用技術**
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology (cont'd)	**Heamatology – General** EDTA whole blood	Complete blood count by automated method, including - Haematocrit - Haemoglobin - Leucocyte count (WBC count) - Leucocyte differential count - Mean corpuscular haemoglobin (MCH) - Mean corpuscular haemoglobin concentration (MCHC) - Mean corpuscular volume (MCV) - Platelet count - Red cell count - Red cell distribution width (RDW)	Sysmex XN-3100
		Reticulocyte count by automated method	Sysmex XN-3100
		Peripheral blood smear examination by Wright-Giemsa stain	Method as documented in C1.3.1.5.214-LAB-HS-D-WI
		Automated staining method	Sysmex SP–50
		Erythrocyte Sedimentation Rate (ESR) by Modified Westergren Automated Method	Vesmatic 30 Cube

HKSH Medical Group Limited – Department of Pathology
養和醫療集團有限公司 – 病理學部
1/F, Li Shu Fan Block, Hong Kong Sanatorium & Hospital, 2 Village Road, Happy Valley, Hong Kong
香港跑馬地山村道二號養和醫院李樹芬院一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類**	**SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性**	**METHOD OR TECHNIQUE USED 方法或應用技術**
This laboratory is accredited for performing the examinations listed below.			
Immunology	**Autoantibodies** Serum	Antinuclear Antibody by Immunofluorescent method, manual	Method as documented in C1.3.1.7.204-LAB-IM-D-WI
		Anti-Beta 2-glycoprotein Antibodies (IgG and IgM) by Enzyme-linked immunosorbent assay (ELISA)	Euroimmun analyser I Anti-β2-Glycoprotein 1 ELISA (IgG) and (IgM) Method as documented in C1.3.1.7.208-LAB-IM-D-WI
		Anti-Cardiolipin Antibodies (IgG and IgM) by Enzyme-linked immunosorbent assay (ELISA)	Euroimmun analyser I Anti-Cardiolipin ELISA (IgG) and (IgM) Method as documented in C1.3.1.7.209-LAB-IM-D-WI
		Anti-Cyclic Citrullinated Peptide Antibody by Enzyme-linked immunosorbent assay (ELISA)	Euroimmun analyser I Anti-CCP ELISA (IgG) Method as documented in C1.3.1.7.210-LAB-IM-D-WI
		Anti-ds DNA Antibody by Enzyme-linked immunosorbent assay (ELISA)	Euroimmun analyser I Anti-dsDNA-NcX ELISA (IgG) Method as documented in C1.3.1.7.211-LAB-IM-D-WI
		Anti-Extractable Nuclear Antigen profile by - Enzyme-linked immunosorbent assay (ELISA)	Euroimmun analyser I Anti-ENA ProfilePlus 2 ELISA (IgG) Method as documented in C1.3.1.7.212-LAB-IM-D-WI
		- Immunoblot test, automated	EUROBlotOne system EUROLINE ANA Profile et Mi-2, Ku, DFS70 (IgG) Method as documented in C1.3.1.7.248-LAB-IM-D-WI
		Anti-Neutrophil Cytoplasmic Antibody by Immunofluorescent method, manual	Method as documented in C1.3.1.7.205-LAB-IM-D-WI
		Anti-Myeloperoxidase by Enzyme-linked immunosorbent assay (ELISA)	Euroimmun analyser I Anti-Myeloperoxidase ELISA (IgG) Method as documented in C1.3.1.7.206-LAB-IM-D-WI
		Anti-Proteinase 3 Antibody by Enzyme-linked immunosorbent assay (ELISA)	Euroimmun analyser I Anti-PR3-hn-hr ELISA (IgG) Method as documented in C1.3.1.7.207-LAB-IM-D-WI

HKSH Medical Group Limited – Department of Pathology
養和醫療集團有限公司 – 病理學部
1/F, Li Shu Fan Block, Hong Kong Sanatorium & Hospital, 2 Village Road, Happy Valley, Hong Kong
香港跑馬地山村道二號養和醫院李樹芬院一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類**	**SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性**	**METHOD OR TECHNIQUE USED 方法或應用技術**
This laboratory is accredited for performing the examinations listed below.			
Immunology (cont'd)	**Autoantibodies (cont'd)** Serum (cont'd)	Anti-Thyroid Peroxidase Antibody by Enzyme-linked immunosorbent assay (ELISA)	Euroimmun analyser I Anti-TPO ELISA (IgG) Method as documented in C1.3.1.7.215-LAB-IM-D-WI
		Anti-Thyroid Stimulating Hormone receptor Antibody by Enzyme-linked immunosorbent assay (ELISA)	Euroimmun analyser I Anti-TSH Receptor (TRAb) Fast ELISA (IgG) Method as documented in C1.3.1.7.216-LAB-IM-D-WI
		Autoimmune inflammatory myopathy by Immunoblot test, automated	EUROBlotOne system EUROLINE Autoimmune Inflammatory Myopahties 16 Ag et cN-1A et HMGCR (IgG) Method as documented in C1.3.1.7.248-LAB-IM-D-WI
		Systemic sclerosis profile by Immunoblot test, automated	EUROBlotOne system EUROLINE Systemic sclerosis (Nucleoli) profile (IgG) Method as documented in C1.3.1.7.248-LAB-IM-D-WI
	Citrated plasma	A disintegrin and metalloproteinase with a thrombospondin type 1 motif, member 13 (ADAMTS-13) activity by Fluorescence Resonance Energy Transfer (FRET) assay, manual	Method as documented in C1.3.1.7.201-LAB-IM-D-WI using Tecan reader
		A disintegrin and metalloproteinase with a thrombospondin type 1 motif, member 13 (ADAMTS-13) antigen and antibody by Immunoassay (Enzyme-based label), manual	Method as documented in C1.3.1.7.202-LAB-IM-D-WI and C1.3.1.7.203-LAB-IM-D-WI using Tecan reader

HKSH Medical Group Limited – Department of Pathology
養和醫療集團有限公司 – 病理學部
G/F & 1/F, Li Shu Fan Block, Hong Kong Sanatorium & Hospital, 2 Village Road, Happy Valley, Hong Kong
香港跑馬地山村道二號養和醫院李樹芬院地下及一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類**	**SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性**	**METHOD OR TECHNIQUE USED 方法或應用技術**
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics	**Molecular Genetics (microbiology)** Upper and/or lower respiratory tract specimens (including deep throat saliva, nasal and throat swabs, etc.)	Detection of Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) nucleic acid, qualitative by Real-Time Reverse Transcription Polymerase Chain Reaction (Target regions: E, N and RdRP genes)	Cepheid Xpert Xpress CoV-2 *plus* Nucleic acid extraction, amplification and detection as documented in C1.3.1.9.334-LAB-MP-D-WI

HKSH Medical Group Limited – Department of Pathology
養和醫療集團有限公司 – 病理學部
G/F & 1/F, Li Shu Fan Block, Hong Kong Sanatorium & Hospital, 2 Village Road, Happy Valley, Hong Kong
香港跑馬地山村道二號養和醫院李樹芬院地下及一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類**	**SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性**	**METHOD OR TECHNIQUE USED 方法或應用技術**
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics (cont'd)	**Molecular Genetics (microbiology) (cont'd)**		
	Stool	Detection of enteric pathogen nucleic acid, qualitative by Real-Time, Nested Multiplex Polymerase Chain Reaction (Bacterial target regions: *Campylobacter*: proprietary *Clostridium difficile* toxin A/B: *tcdA* & *tcdB* *Plesiomonas shigelloides*: proprietary *Salmonella*: proprietary *Vibrio*: proprietary *Vibrio cholerae*: proprietary *Yersinia enterocolitica*: proprietary Enteroaggregative *E. coli*: *aggR & aatA* Enteropathogenic *E. coli*: *eae* gene Enterotoxigenic *E. coli*: *ltA*, *st1a* & *st1b* Shiga-like toxin-producing *E. coli* Shiga-like toxin genes 1 and 2: *stx1* & *stx2* genes *E. coli* O157: proprietary *Shigella*/enteroinvasive *E. coli*: *ipaH* gene) (Parasitic target regions: *Cryptosporidium*: proprietary *Cyclospora cayetanensis*: proprietary *Entamoeba histolytica*: proprietary *Giardia lamblia*: proprietary) (Viral target regions: Adenovirus F40/41: proprietary Astrovirus: proprietary Norovirus GI/GII: proprietary Rotavirus A: proprietary Sapovirus: proprietary)	Method as documented in C1.3.1.9.337-LAB-MP-D-WI using FilmArray Gastrointestinal (GI) Panel
	EDTA plasma	Detection of Hepatitis B Virus (HBV) nucleic acid, quantitative by Real-Time Polymerase Chain Reaction (Target region: pre-core-core gene)	Method as documented in C1.3.1.9.338-LAB-MP-D-WI using Cepheid Xpert HBV Viral Load

HKSH Medical Group Limited – Department of Pathology
養和醫療集團有限公司 – 病理學部
G/F & 1/F, Li Shu Fan Block, Hong Kong Sanatorium & Hospital, 2 Village Road, Happy Valley, Hong Kong
香港跑馬地山村道二號養和醫院李樹芬院地下及一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類**	**SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性**	**METHOD OR TECHNIQUE USED 方法或應用技術**
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics (cont'd)	**Molecular Genetics** Cervicovaginal specimens	Detection of nucleic acid of Human Papillomavirus (HPV) type 16, 18 and twelve other high-risk types (specific type not distinguished, including HPV 31, 33, 35, 39, 45, 51, 52, 56, 58, 59, 66 and 68) by Real-Time Polymerase Chain Reaction (Target region: L1 gene)	Method as documented in C1.3.1.9.205-LAB-MP-D-WI using cobas HPV Test

HKSH Medical Group Limited – Department of Pathology
養和醫療集團有限公司 – 病理學部
5/F, HKSH Eastern Building, 3 Tung Wong Road, A Kung Ngam, Shau Kei Wan, Hong Kong
香港筲箕灣亞公岩東旺道三號養和東區大樓五樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics	**Molecular Genetics (haematology)** Bone marrow, peripheral blood	Quantification of BCR-ABL1 Mbcr b3a2 and b2a2 fusion gene transcripts by Real-Time Polymerase Chain Reaction (Target region: BCR-ABL1 Mbcr fusion gene. including b2a2 and b3a2 transcripts)	Method as documented in C1.3.1.9.218-LAB-MP-D-WI using Qiagen BCR-ABL1 Mbcr RGQ RT-PCR Kit

The Hong Kong Polytechnic University – Molecular Diagnostic Laboratory
香港理工大學 - 分子實驗室

ADDRESS **地址**	:	Room Y1218, Block Y, Lee Shau Kee Building, The Hong Kong Polytechnic University, Hung Hom, Kowloon, Hong Kong 香港九龍紅磡香港理工大學 Y 座李兆基樓 1218 室
ENQUIRY **查詢**	:	Dr TO Kar Wing, Senior Scientific Officer 杜嘉詠博士，高級科學主任
TELEPHONE **電話**	:	3400 2617
FAX **傳真**	:	2364 9932
E-MAIL **電郵**	:	christina.to@polyu.edu.hk
WEBSITE ADDRESS **網址**	:	https://www.polyu.edu.hk/ucea/covid-19-rt-pcr/
CLIENTELE **服務對象**	:	Private physicians, medical centres, private and public hospitals and other medically related institutions 私家醫生，醫療中心，私營及公營醫院和醫療有關的機構

The Hong Kong Polytechnic University – Molecular Diagnostic Laboratory
香港理工大學 - 分子實驗室

ADDRESS **地址**	:	Room Y1218, Block Y, Lee Shau Kee Building, The Hong Kong Polytechnic University, Hung Hom, Kowloon, Hong Kong 香港九龍紅磡香港理工大學Y座李兆基樓1218室
LABORATORY DIRECTOR **化驗所主管**	:	**Biomedical Scientist Director 醫務科學主管:** Dr TO Kar-wing 杜嘉詠博士 PhD, MPhil, MSc, BSc, Reg. MLT1
ACCREDITED TEST CATEGORY **認可測試類別**	:	**Medical Testing 醫務化驗** Medical Genetics (Molecular Genetics) 醫學遺傳學 (分子遺傳學)

The Hong Kong Polytechnic University – Molecular Diagnostic Laboratory
香港理工大學 - 分子實驗室
6/F and 12/F, Block Y, Lee Shau Kee Building, The Hong Kong Polytechnic University, Hung Hom, Kowloon, Hong Kong
香港九龍紅磡香港理工大學 Y 座李兆基樓六樓及十二樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing examination listed below.			
Medical Genetics	**Molecular Genetics (microbiology)** Deep throat saliva and Combined nasal and throat swab	Detection of Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2), qualitative by Real-Time Reverse Transcription Polymerase Chain Reaction (Target region: N1, N2 and RNaseP genes)	IDT 2019-nCoV CDC EUA Kit Nucleic acid extraction, amplification and detection as documented in PU-MDL-SOP-001

FZ Public Health Laboratory Company Limited
方舟公共衞生化驗所有限公司

ADDRESS **地址**	:	15/F, Tesbury Centre, 28 Queen's Road East, Admiralty, Hong Kong 香港金鐘皇后大道東28號金鐘匯中心15樓
ENQUIRY **查詢**	:	Mr CHUNG Ping Yin Terry
TELEPHONE **電話**	:	2877 7308
FAX **傳真**	:	2877 7313
E-MAIL **電郵**	:	terry.chung@rockorient.com
WEBSITE ADDRESS **網址**	:	/
CLIENTELE **服務對象**	:	Private physicians, medical centres, private and public hospitals and other medically related institutions 私家醫生，醫療中心，私營及公營醫院和醫療有關的機構

FZ Public Health Laboratory Company Limited
方舟公共衛生化驗所有限公司

ADDRESS **地址**	:	15/F, Tesbury Centre, 28 Queen's Road East, Admiralty, Hong Kong 香港金鐘皇后大道東28號金鐘匯中心15樓
LABORATORY DIRECTOR **化驗所主管**	:	**Biomedical Scientist Director 醫務科學主管:** Vacant
PATHOLOGIST IN CHARGE OF THE ACCREDITED DISCIPLINE **負責認可範疇的病理學專科醫生**	**:**	Nil

ACCREDITED TEST CATEGORY **認可測試類別**	:	**Medical Testing 醫務化驗**	
		Clinical Microbiology and Infection	臨床微生物學及傳染病
		Medical Genetics (Molecular Genetics)	醫學遺傳學 (分子遺傳學)

FZ Public Health Laboratory Company Limited
方舟公共衞生化驗所有限公司
15/F, Tesbury Centre, 28 Queen's Road East, Admiralty, Hong Kong
香港金鐘皇后大道東 28 號金鐘匯中心 15 樓

MEDICAL TESTING				
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術	
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.				
Clinical Microbiology and Infection	**Virology – Serology** Serum	Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) Antibody (IgG), quantitative by Immunoassay (Chemiluminescent label)	Abbott Architect i1000SR System SARS-CoV-2-IgG II Quant assay	. .vs

FZ Public Health Laboratory Company Limited
方舟公共衞生化驗所有限公司
15/F, Tesbury Centre, 28 Queen's Road East, Admiralty, Hong Kong
香港金鐘皇后大道東 28 號金鐘匯中心 15 樓

MEDICAL TESTING				
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術	
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.				
Medical Genetics	**Molecular Genetics (microbiology)** Nasopharyngeal swab and oropharyngeal swab	Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) – detection by Real time Multiplex Polymerase Chain Reaction, qualitative (Target regions: E gene and N2 gene)	GeneXpert Xpert Xpress CoV-2 assay Nucleic acid extraction, amplification and detection as documented in SOP-001-FZ Express	.vs.
		(Target regions: N gene and Orf1ab gene)	Sansure Biotech Novel Coronavirus (2019-nCoV) Nucleic Acid Diagnostic Kit Nucleic acid extraction, amplification and detection as documented in SOP-010-FZ Kit AS	.vs.

FZ Public Health Laboratory Company Limited
方舟公共衞生化驗所有限公司
15/F, Tesbury Centre, 28 Queen's Road East, Admiralty, Hong Kong
香港金鐘皇后大道東 28 號金鐘匯中心 15 樓

Summary of Voluntary Suspension

.vs. denotes the examination for which the accreditation has been voluntarily suspended with effect from 1 December 2024. (Notification Letter No. HOKLAS855S-12)

Medtimes Molecular Laboratory Limited
時代基因檢測中心有限公司

ADDRESS **地址**	:	Flat A1, B & C, 7/F, Roxy Industrial Centre, 58-66 Tai Lin Pai Road, Kwai Chung, New Territories, Hong Kong 香港新界葵涌大連排道58-66號樂聲工業中心七樓A1, B 及C室
ENQUIRY **查詢**	:	Mr HO Tim-man 何添文先生
TELEPHONE **電話**	:	3793 3751
FAX **傳真**	:	3575 9726
E-MAIL **電郵**	:	tim.ho@medtimes.com.hk
WEBSITE ADDRESS **網址**	:	https://www.medtimes.com.hk
CLIENTELE **服務對象**	:	Private physicians, medical centres, private and public hospitals and other medically related institutions 私家醫生，醫療中心，私營及公營醫院和醫療有關的機構

Contact details last updated on: 26 August 2021

Medtimes Molecular Laboratory Limited
時代基因檢測中心有限公司

ADDRESS **地址**	:	Flat A1, B & C, 7/F, Roxy Industrial Centre, 58-66 Tai Lin Pai Road, Kwai Chung, New Territories, Hong Kong 香港新界葵涌大連排道58-66號樂聲工業中心七樓A1, B 及C室
LABORATORY DIRECTOR **化驗所主管**	:	**Biomedical Scientist Director 醫務科學主管:** Mr Chow Chun-kin 周俊健先生 MMedSci., Reg. MLT1 (HK)
PATHOLOGIST IN CHARGE OF THE ACCREDITED DISCIPLINE **負責認可範疇的病理學專科醫生**	:	Nil
ACCREDITED TEST CATEGORY **認可測試類別**	:	**Medical Testing 醫務化驗** Medical Genetics (Molecular Genetics) 醫學遺傳學 (分子遺傳學)

Medtimes Molecular Laboratory Limited
時代基因檢測中心有限公司
Flat A1, B & C, 7/F, Roxy Industrial Centre, 58-66 Tai Lin Pai Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌大連排道 58-66 號樂聲工業中心七樓 A1, B 及 C 室

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Medical Genetics	**Molecular Genetics (microbiology)** Nasal swab, throat swab, nasopharyngeal swab, oropharyngeal swab	Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) – detection by Real time Multiplex Polymerase Chain Reaction, qualitative (Target regions: E, RdRp, S and N genes)	Nucleic acid extraction as documented in HWI-SC-11 Nucleic acid amplification and detection as documented in HWI-SC-12

.vs.

Medtimes Molecular Laboratory Limited
時代基因檢測中心有限公司
Flat A1, B & C, 7/F, Roxy Industrial Centre, 58-66 Tai Lin Pai Road, Kwai Chung, New Territories, Hong Kong
香港新界葵涌大連排道 58-66 號樂聲工業中心七樓 A1, B 及 C 室

Summary of Voluntary Suspension

.vs. denotes the examination for which accreditation has been voluntarily suspended with effect from 1 August 2024 (Notification Letter No. HOKLAS856S-6).

CUHK Medical Centre – Department of Pathology
香港中文大學醫院 – 病理學部

ADDRESS **地址**	:	Level 3, CUHK Medical Centre, 9 Chak Cheung Street, Shatin, New Territories, Hong Kong 香港新界沙田澤祥街9號香港中文大學醫院3樓
ENQUIRY **查詢**	:	Mr SIU Long-kei 蕭朗基先生
TELEPHONE **電話**	:	3946 6453
FAX **傳真**	:	3504 3651
E-MAIL **電郵**	:	keilksiu@cuhkmc.hk
WEBSITE ADDRESS **網址**	:	https://www.cuhkmc.hk/
CLIENTELE **服務對象**	:	Private physicians, medical centres, private and public hospitals and other medically related institutions 私家醫生，醫療中心，私營及公營醫院和醫療有關的機構

CUHK Medical Centre – Department of Pathology
香港中文大學醫院 – 病理學部

ADDRESS **地址**	:	Level 3, CUHK Medical Centre, 9 Chak Cheung Street, Shatin, New Territories, Hong Kong 香港新界沙田澤祥街9號香港中文大學醫院3樓
LABORATORY DIRECTOR **化驗所主管**	:	**Pathologist Director 病理學主管:** Dr IP Yiu-tung 葉耀東醫生 MB ChB (CUHK), FHKCPath, FHKAM (Pathology)
PATHOLOGIST IN CHARGE OF THE ACCREDITED DISCIPLINE **負責認可範疇的病理學專科醫生**	:	Anatomical Pathology 解剖病理學 Dr IP Yiu-tung 葉耀東醫生 (Full-time 全職)
ACCREDITED TEST CATEGORY **認可測試類別**	:	**Medical Testing 醫務化驗**

Anatomical Pathology	解剖病理學
Chemical Pathology	化學病理學
Clinical Microbiology and Infection	臨床微生物學及傳染病
Haematology	血液學
Medical Genetics (Molecular Genetics)	醫學遺傳學（分子遺傳學）

CUHK Medical Centre – Department of Pathology
香港中文大學醫院 – 病理學部
Level 3, CUHK Medical Centre, 9 Chak Cheung Street, Shatin, New Territories, Hong Kong
香港新界沙田澤祥街 9 號香港中文大學醫院 3 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology	**Cytopathology** Gynaecological specimens	Gynaecological cytology examination by Papanicolaou staining	Specimen preparation and routine staining (both automated and manual) for: ThinPrep + Papanicolaou staining Method as documented in PAT-APS-022-P and PAT-APS-023-P Manual screening: Method as documented in PAT-APS-010-A
	Non-gynaecological specimens	Non-gynaecological cytology examination by H&E and Papanicolaou staining	Specimen preparation and routine staining of Haematoxylin and Eosin stain, and Papanicolaou stain (both automated and manual method): Method as documented in PAT-APS-022-P and PAT-APS-023-P Manual screening: Method as documented in PAT-APS-010-A
	Histopathology Surgical pathology and cytological specimens	Histology examination by H&E staining	Specimen preparation, with Haematoxylin and Eosin staining: Method as documented in PAT-APS-007-A, PAT-APS-003-P, PAT-APS-007-P, PAT-APS-012-P, PAT-APS-014-P, PAT-APS-016-P, PAT-APS-017-P, PAT-APS-019-P, and PAT-APS-025-P
	Intra-operative frozen section for fresh tissue specimens and biopsies	Histology examination by H&E staining	Specimen preparation and Haematoxylin and Eosin staining: Method as documented in PAT-APS-009-P

CUHK Medical Centre – Department of Pathology
香港中文大學醫院 – 病理學部
Level 3, CUHK Medical Centre, 9 Chak Cheung Street, Shatin, New Territories, Hong Kong
香港新界沙田澤祥街 9 號香港中文大學醫院 3 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology	**General Chemistry** Plasma	Alanine aminotransferase (ALT) by Spectrophotometry	Roche cobas c503 system, ALTP2 assay
		Albumin by Spectrophotometry	Roche cobas c503 system, Albumin BCP assay
		Albumin/Globulin Ratio by Calculation	Roche cobas c503 system (calculated from Albumin and Globulin)
		Albumin adjusted calcium by Calculation	Roche cobas c503 system (calculated from Albumin and Calcium)
		Alkaline phosphatase (ALP) by Spectrophotometry	Roche cobas c503 system, ALP2 assay
		Aspartate aminotransferase (AST) by Spectrophotometry	Roche cobas c503 system, ASTP2 assay
		Bicarbonate by Spectrophotometry	Roche cobas c503 system, CO2-L assay
		Bilirubin, Total by Spectrophotometry	Roche cobas c503 system, BILT3 assay
		Bilirubin, Direct by Spectrophotometry	Roche cobas c503 system, BILD2 assay
		Bilirubin, Indirect by Calculation	Roche cobas c503 system (calculated from Bilirubin, Total and Bilirubin, Direct)
		Calcium by Spectrophotometry	Roche cobas c503 system, CA2 assay
		Chloride by Potentiometry (Indirect Ion Selective Electrode)	Roche cobas c503 system, ISE Indirect Na-K-Cl
		Cholesterol, Total by Spectrophotometry	Roche cobas c503 system, CHOL2 assay

CUHK Medical Centre – Department of Pathology
香港中文大學醫院 – 病理學部
Level 3, CUHK Medical Centre, 9 Chak Cheung Street, Shatin, New Territories, Hong Kong
香港新界沙田澤祥街 9 號香港中文大學醫院 3 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology (cont'd)	**General Chemistry (cont'd)** Plasma (cont'd)	Cholesterol, high density lipoproteins (HDL) by Spectrophotometry	Roche cobas c503system, HDLC4 assay
		Cholesterol, low density lipoproteins (LDL) by Spectrophotometry	Roche cobas c503 system, LDLC3 assay
		Cholesterol, non-high density lipoproteins (non-HDL) by Calculation	Roche cobas c503 system (calculated from Cholesterol and HDL-Cholesterol)
		Cholesterol: HDL-Cholesterol ratio by Calculation	Roche cobas c503 system (calculated from Cholesterol and HDL-Cholesterol)
		Creatinine by Spectrophotometry	Roche cobas c503 system, CREJ2 assay
		Estimated Glomerular Filtration Rate (eGFR) by Calculation	Roche cobas c503 system (calculated from Creatinine using Chronic Kidney Disease Epidemiology Collaboration (CKD-EPI) Formula)
		Gamma-Glutamyl Transferase (GGT) by Spectrophotometry	Roche cobas c503 system, GGT-2 assay
		Globulin by Calculation	Roche cobas c503 system (calculated from Total Protein and Albumin)
	Fluoride plasma	Glucose by Spectrophotometry	Roche cobas c503 system, GLUC3 assay
	Plasma	Phosphate, Inorganic by Spectrophotometry	Roche cobas c503 system, PHOS2 assay
		Potassium by Potentiometry (Indirect Ion-Selective Electrode)	Roche cobas c503 system, ISE Indirect Na-K-Cl
		Protein, Total by Spectrophotometry	Roche cobas c503 system, TP2 assay

CUHK Medical Centre – Department of Pathology
香港中文大學醫院 – 病理學部
Level 3, CUHK Medical Centre, 9 Chak Cheung Street, Shatin, New Territories, Hong Kong
香港新界沙田澤祥街 9 號香港中文大學醫院 3 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology (cont'd)	**General Chemistry (cont'd)** Plasma (cont'd)	Sodium by Potentiometry (Indirect Ion-Selective Electrode)	Roche cobas c503 system, ISE Indirect Na-K-Cl
		Triglycerides by Spectrophotometry	Roche cobas c503 system, TRIGL assay
		Urea by Spectrophotometry	Roche cobas c503 system, UREAL assay
		Uric Acid by Spectrophotometry	Roche cobas c503 system, UA2 assay
		Troponin T, high sensitive (hs-TNT) by Immunoassay (Chemiluminescent label)	Roche cobas e801 system, Troponin T hs assay
	Urine	Albumin by Immunoturbidimetry	Roche cobas c503 system, ALBT2 assay
		Creatinine by Spectrophotometry	Roche cobas c503 system, CREJ2 assay
		Protein, Total by Spectrophotometry	Roche cobas c503 system, TPUC3 assay
		Urine Albumin/Creatinine Ratio by Calculation	Roche cobas c503 system (calculated from Urine Albumin and Urine Creatinine)
		Urine Protein/Creatinine Ratio by Calculation	Roche cobas c503 system (calculated from Urine Protein and urine Creatinine)

CUHK Medical Centre – Department of Pathology
香港中文大學醫院 – 病理學部
Level 3, CUHK Medical Centre, 9 Chak Cheung Street, Shatin, New Territories, Hong Kong
香港新界沙田澤祥街 9 號香港中文大學醫院 3 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology (cont'd)	**Hormones**		
	Serum	Thyroxine, Free (FT4) by Immunoassay (Chemiluminescent label)	Roche cobas e801 system, FT4 IV assay
		Thyroid stimulating hormone (TSH) by Immunoassay (Chemiluminescent label)	Roche cobas e801 system, TSH assay
		Triiodothyronine, Free (FT3) by Immunoassay (Chemiluminescent label)	Roche cobas e801 system, FT3 III assay
	Special Chemistry		
	EDTA whole blood	Haemoglobin A1C (HbA1c) by High performance liquid chromatography	Bio-Rad D-10 Haemoglobin A1c assay
	Tumour Markers		
	Serum	Alpha-fetoprotein (AFP) by Immunoassay (Chemiluminescent label)	Roche cobas e801 system, Alpha-fetoprotein (AFP) assay
		Carcinoembryonic Antigen (CEA) by Immunoassay (Chemiluminescent label)	Roche cobas e801 system, Carcinoembryonic Antigen (CEA) assay
		Prostate Specific Antigen, Free (FPSA) by Immunoassay (Chemiluminescent label)	Roche cobas e801 system, Prostate Specific Antigen, Free (FPSA) assay
		Prostate Specific Antigen, Total (TPSA) by Immunoassay (Chemiluminescent label)	Roche cobas e801 system, Prostate Specific Antigen, Total (TPSA) assay
		PSA, Free / PSA, Total ratio by Calculation	Roche cobas e801 system (calculated from FPSA and TPSA)

CUHK Medical Centre – Department of Pathology
香港中文大學醫院 – 病理學部
Level 3, CUHK Medical Centre, 9 Chak Cheung Street, Shatin, New Territories, Hong Kong
香港新界沙田澤祥街 9 號香港中文大學醫院 3 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Clinical Microbiology and Infection	**Bacteriology - culture, identification, sensitivity tests and/or microscopy**		
	Urine	Culture of urinary pathogens: - Culture and antimicrobial susceptibility tests for urinary pathogens by Aerobic and anaerobic culture	Culture: Method as documented in PAT-MBS-040-P Antimicrobial susceptibility tests: Method as documented in PAT-MBS-049-P
		- Identification of clinical isolates by MALDI-TOF Mass Spectrometry	Method as documented in PAT-MBS-026-P using bioMerieux VITEK MS
	Lower respiratory tract samples (including sputum, bronchial aspirate, tracheal aspirate, etc.)	Culture of lower respiratory tract pathogens: - Microscopy for cell morphology and microorganisms by Gram stain	Manual method as documented in PAT-MBS-043-P
		- Culture and antimicrobial susceptibility tests for pathogens by Aerobic and CO_2 culture	Culture: Method as documented in PAT-MBS-038-P Antimicrobial susceptibility tests: Method as documented in PAT-MBS-049-P
		- Identification of clinical isolates by MALDI-TOF Mass Spectrometry	Method as documented in PAT-MBS-026-P using bioMerieux VITEK MS
	Upper respiratory tract samples (including throat swab, nasal swab, etc.)	Culture of upper respiratory tract pathogens: - Microscopy for cell morphology and microorganisms by Gram stain	Manual method as documented in PAT-MBS-043-P
		- Culture and antimicrobial susceptibility tests for pathogens by Aerobic and CO_2 culture	Culture: Method as documented in PAT-MBS-038-P Antimicrobial susceptibility tests: Method as documented in PAT-MBS-049-P
		- Identification of clinical isolates by MALDI-TOF Mass Spectrometry	Method as documented in PAT-MBS-026-P using bioMerieux VITEK MS

CUHK Medical Centre – Department of Pathology
香港中文大學醫院 – 病理學部
Level 3, CUHK Medical Centre, 9 Chak Cheung Street, Shatin, New Territories, Hong Kong
香港新界沙田澤祥街 9 號香港中文大學醫院 3 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Urinalysis and/or urine microscopy** Urine	Urine formed elements by Microscopic examination with fixed volume in microtitre plate Automated imaging and evaluation technology	 Method as documented in PAT-MBS-024-P Sysmex UF5000 Urine Particle Analyser and UD10 Urine Particle Digital Imaging Device Method as documented in PAT-MBS-024-P
		Urinalysis by dipstick method, including - Specific Gravity - pH - Glucose - Ketone - Protein - Blood - Leucocyte - Nitrite - Bilirubin - Urobilinogen	 Sysmex UC3500 Urine Chemistry Analyser Method as documented in PAT-MBS-024-P

CUHK Medical Centre – Department of Pathology
香港中文大學醫院 – 病理學部
Level 3, CUHK Medical Centre, 9 Chak Cheung Street, Shatin, New Territories, Hong Kong
香港新界沙田澤祥街 9 號香港中文大學醫院 3 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Haematology	**Blood Bank – General**		
	EDTA whole blood	ABO and Rh(D) typing by	
		- Red cell agglutination, automated	Bio-Rad IH500 system: Method as documented in PAT-BBS-016-P
		- Red cell agglutination, manual	Method as documented in PAT-BBS-005-P
		Antibody screening by	
		- Red cell agglutination, automated	Bio-Rad IH500 system: Method as documented in PAT-BBS-016-P
		- Saline indirect antiglobulin test	Method as documented in PAT-BBS-005-P
		Crossmatch by	
		- Computer crossmatch method	Method as documented in PAT-BBS-009-P
		- Immediate spin method	
		- Red cell agglutination, automated	
		- Saline indirect antiglobulin test	
	Coagulation		
	Citrated blood	Coagulation studies, automated including:	Instrumentation Laboratory ACL TOP 350 CTS
		- Prothrombin Time (PT)	Method as documented in PAT-HMS-007-P
		- Activated partial thromboplastin time (APTT)	
		- Fibrinogen (FIB)	
		- Thrombin time (TT)	
		D-Dimer quantitation (DD) by	
		Latex agglutination	Instrumentation Laboratory ACL TOP 350 CTS Method as documented in PAT-HMS-034-P

CUHK Medical Centre – Department of Pathology
香港中文大學醫院 – 病理學部
Level 3, CUHK Medical Centre, 9 Chak Cheung Street, Shatin, New Territories, Hong Kong
香港新界沙田澤祥街 9 號香港中文大學醫院 3 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Haematology (cont'd)	**Haematology – General** EDTA whole blood	Complete blood count, including: - While blood cell count (WBC) - Red blood cell count (RBC) - Haemoglobin (HGB) - Haematocrit (HCT) - Mean corpuscular volume (MCV) - Mean corpuscular haemoglobin (MCH) - Mean corpuscular haemoglobin concentration (MCHC) - Red cell distribution width (RDW) - Platelet count - Mean Platelet Volume (MPV)	Sysmex XN-3100 Haematology System Method as documented in PAT-HMS-001-P
		Reticulocyte count by Automated method	Sysmex XN-3100 Haematology System Method as documented in PAT-HMS-001-P
		Leucocyte differential count by Automated method	Sysmex XN-3100 Haematology System Method as documented in PAT-HMS-001-P
		Peripheral blood smear examination by Wright Giemsa stain (automated method)	Method as documented in PAT-HMS-014-P and PAT-HMS-003-P
		Erythrocyte Sedimentation Rate (ESR) by Automated method	Diesse Cube 30 Touch Method as documented in PAT-HMS-006-P

CUHK Medical Centre – Department of Pathology
香港中文大學醫院 – 病理學部
Level 3, CUHK Medical Centre, 9 Chak Cheung Street, Shatin, New Territories, Hong Kong
香港新界沙田澤祥街 9 號香港中文大學醫院 3 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Medical Genetics	**Molecular Genetics (microbiology)** Deep throat saliva, nasopharyngeal swab, nasal swab and oropharyngeal swab	Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) – detection by Real time Multiplex Polymerase Chain Reaction, qualitative (Target regions: E2 gene, RdRp gene, and N2 gene)	Cepheid Xpert Xpress SARS-CoV-2 Plus Assay Nucleic acid extraction, amplification and detection as documented in PAT-MBS-104-P

Lee's Pharm Genomics Lab Limited
李氏大藥廠基因實驗室有限公司

ADDRESS **地址**	:	Unit 316, 3/F, Biotech Centre 2, Phase 2, Hong Kong Science Park, Shatin, New Territories, Hong Kong 香港新界沙田香港科學園第二期生物科技中心二座3樓316室
ENQUIRY **查詢**	:	Ms LI Yee-wing 李宜穎女士
TELEPHONE **電話**	:	2210 7029
FAX **傳真**	:	2210 7089
E-MAIL **電郵**	:	wing.li@leespharm.com
WEBSITE ADDRESS **網址**	:	www.leespharm.com
CLIENTELE **服務對象**	:	Private physicians, medical centres, private and public hospitals and other medically related institutions 私家醫生，醫療中心，私營及公營醫院和醫療有關的機構

Lee's Pharm Genomics Lab Limited
李氏大藥廠基因實驗室有限公司

ADDRESS **地址**	:	Unit 316, 3/F, Biotech Centre 2, Phase 2, Hong Kong Science Park, Shatin, New Territories, Hong Kong 香港新界沙田香港科學園第二期生物科技中心二座 3 樓 316 室
LABORATORY DIRECTOR **化驗所主管**	:	**Biomedical Scientist Director 醫務科學主管:** Ms LI Yee-wing 李宜穎女士 MSc, Reg. MLT 1
ACCREDITED TEST CATEGORY **認可測試類別**	:	**Medical Testing 醫務化驗** Medical Genetics (Molecular Genetics) 醫學遺傳學 (分子遺傳學)

Lee's Pharm Genomics Lab Limited
李氏大藥廠基因實驗室有限公司
Unit 316, 3/F, Biotech Centre 2, Phase 2, Hong Kong Science Park, Shatin, New Territories, Hong Kong
香港新界沙田香港科學園第二期生物科技中心二座 3 樓 316 室

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Medical Genetics	**Molecular Genetics (microbiology)** Deep throat saliva, combined nasal and throat swab	Detection of Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2), qualitative by Real-Time Reverse Transcription Polymerase Chain Reaction (Target region: N1, N2 and RNaseP genes)	CDC 2019-Novel Coronavirus (2019-nCoV) Real-Time RT-PCR Diagnostic Panel Nucleic acid extraction, amplification and detection as documented in LP-008-0009

St. Teresa's Hospital – Clinical Laboratory
聖德肋撒醫院 – 臨床病理檢驗部

ADDRESS **地址**	:	1/F, Main Block, St. Teresa's Hospital, 327 Prince Edward Road, Kowloon, Hong Kong 香港九龍太子道327號聖德肋撒醫院大樓1字樓
ENQUIRY **查詢**	:	Mr Stephen SO Shing-chau 蘇成就先生
TELEPHONE **電話**	:	2200 3110
FAX **傳真**	:	2200 3410
E-MAIL **電郵**	:	sosc@sth.org.hk
WEBSITE ADDRESS **網址**	:	www.sth.org.hk
CLIENTELE **服務對象**	:	Private physicians, medical centres, private and public hospitals and other medically related institutions 私家醫生，醫療中心，私營及公營醫院和醫療有關的機構

St. Teresa's Hospital – Clinical Laboratory
聖德肋撒醫院 – 臨床病理檢驗部

ADDRESS **地址**	:	1/F, Main Block, St. Teresa's Hospital, 327 Prince Edward Road, Kowloon, Hong Kong 香港九龍太子道327號聖德肋撒醫院大樓1字樓
LABORATORY DIRECTOR **化驗所主管**	:	**Biomedical Scientist Director 醫務科學主管:** Mr Stephen SO Shing-chau 蘇成就先生 MSc, FIBMS, Reg. MLT1 (HK)
ACCREDITED TEST CATEGORY **認可測試類別**	:	**Medical Testing 醫務化驗**

Chemical Pathology	化學病理學
Haematology	血液學
Medical Genetics (Molecular Genetics)	醫學遺傳學 (分子遺傳學)

St. Teresa's Hospital – Clinical Laboratory
聖德肋撒醫院 – 臨床病理檢驗部

1/F, Main Block, St. Teresa's Hospital, 327 Prince Edward Road, Kowloon, Hong Kong.
香港九龍太子道 327 號，聖德肋撒醫院大樓 1 字樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology	**General Chemistry**		
	Serum	Albumin by Spectrophotometry	Roche Cobas Pro (c503), ALB2 assay
		Alkaline Phosphatase (ALP) by Spectrophotometry	Roche Cobas Pro (c503), ALP2 assay
		Alanine Aminotransferase (ALT) by Spectrophotometry	Roche Cobas Pro (c503), ALTP2 assay
		Aspartate Aminotransferase (AST) by Spectrophotometry	Roche Cobas Pro (c503), ASTP2 assay
		Bilirubin, Total by Spectrophotometry	Roche Cobas Pro (c503), BILT3 assay
		Creatinine by Spectrophotometry	Roche Cobas Pro (c503), CREJ2 assay
		Gamma-Glutamyltransferase (GGT) by Spectrophotometry	Roche Cobas Pro (c503), GGT-2 assay
	Plasma	Glucose by Spectrophotometry	Roche Cobas Pro (c503), GLUC3 assay
	Serum	Protein, Total by Spectrophotometry	Roche Cobas Pro (c503), TP2 assay
		Urea by Spectrophotometry	Roche Cobas Pro (c503), UREAL assay

St. Teresa's Hospital – Clinical Laboratory
聖德肋撒醫院 – 臨床病理檢驗部

1/F, Main Block, St. Teresa's Hospital, 327 Prince Edward Road, Kowloon, Hong Kong.
香港九龍太子道 327 號，聖德肋撒醫院大樓 1 字樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Medical Genetics	**Molecular Genetics (Microbiology)** Nasopharyngeal swab	Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) – detection by Real time Multiplex Polymerase Chain Reaction, qualitative (Target regions: E, N2 and RdRP genes)	Xpert Xpress SARS-CoV-2 Plus Nucleic acid extraction, amplification and detection as documented in LABM-PRO-119

St. Teresa's Hospital – Clinical Laboratory
聖德肋撒醫院 – 臨床病理檢驗部

1/F, Main Block, St. Teresa's Hospital, 327 Prince Edward Road, Kowloon, Hong Kong.
香港九龍太子道 327 號，聖德肋撒醫院大樓 1 字樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Haematology	**Haematology – General** EDTA whole blood	Complete blood count including - Haemoglobin - Haematocrit - Leucocyte count (WBC count) - Leucocyte differential count - Mean corpuscular volume (MCV) - Mean corpuscular haemoglobin (MCH) - Mean corpuscular haemoglobin concentration (MCHC) - Platelet count - Red cell count - Red cell distribution width (RDW)	Sysmex XN-9100 Haematology System (XN-20)
		Leucocyte differential count by Manual method	Method as documented in LABH-PRO-029
		Peripheral blood smear examination by Wright-Giemsa stain	Slide Preparation Unit Sysmex SP-50 Method as documented in LABH-PRO-031

Pangenia Lifesciences Limited
新亞生命科技有限公司

ADDRESS **地址**	:	10/F, Stelux House, 698 Prince Edward Road East, San Po Kong, Kowloon, Hong Kong 香港九龍新蒲崗太子道東698號寶光商業中心10樓
ENQUIRY **查詢**	:	Mr NG Nim-pong 吳念邦先生
TELEPHONE **電話**	:	3989 6160
FAX **傳真**	:	3989 6161
E-MAIL **電郵**	:	info@pangenialife.com
WEBSITE ADDRESS **網址**	:	www.pangenialife.com
CLIENTELE **服務對象**	:	Private physicians, medical centres, private and public hospitals and other medically related institutions 私家醫生，醫療中心，私營及公營醫院和醫療有關的機構

Pangenia Lifesciences Limited
新亞生命科技有限公司

ADDRESS **地址**	:	10/F, Stelux House, 698 Prince Edward Road East, San Po Kong, Kowloon, Hong Kong 香港九龍新蒲崗太子道東 698 號寶光商業中心 10 樓
LABORATORY DIRECTOR **化驗所主管**	:	**Biomedical Scientist Director 醫務科學主管:** Mr NG Nim-pong 吳念邦先生 MSc, BSc, Reg. MLT 1
ACCREDITED TEST CATEGORY **認可測試類別**	:	**Medical Testing 醫務化驗** Medical Genetics (Molecular Genetics) 醫學遺傳學 (分子遺傳學)

Pangenia Lifesciences Limited
新亞生命科技有限公司
10/F, Stelux House, 698 Prince Edward Road East, San Po Kong, Kowloon, Hong Kong
香港九龍新蒲崗太子道東 698 號寶光商業中心 10 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Medical Genetics	**Molecular Genetics (microbiology)** Deep throat saliva, nasopharyngeal swab, nasal swab, throat swab	Detection of Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2), qualitative by Real-Time Reverse Transcription Polymerase Chain Reaction (Target region: ORF1ab and N genes)	Real Time PCR Kit for Novel Coronavirus 2019-nCoV (ORF1ab, N), UNI-MEDICA Nucleic acid extraction, amplification and detection as documented in PIC-LAB-SOP-009

Evangel Hospital – Laboratory
播道醫院 - 化驗室

ADDRESS **地址**	:	1/F, 222 Argyle Street, Kowloon, Hong Kong 香港九龍亞皆老街222號1樓
ENQUIRY **查詢**	:	Mr LAI Ming-fai 黎明輝先生
TELEPHONE **電話**	:	2760 3442
FAX **傳真**	:	2624 7310
E-MAIL **電郵**	:	matthewlai@evanhosp.org.hk
WEBSITE ADDRESS **網址**	:	www.evangel.org.hk
CLIENTELE **服務對象**	:	Private physicians, medical centres, private and public hospitals and other medically related institutions 私家醫生，醫療中心，私營及公營醫院和醫療有關的機構

Evangel Hospital – Laboratory
播道醫院 - 化驗室

ADDRESS : 1/F, 222 Argyle Street, Kowloon, Hong Kong
地址 香港九龍亞皆老街 222 號 1 樓

LABORATORY DIRECTOR : **Biomedical Scientist Director 醫務科學主管:**
化驗所主管 Mr KONG Yun-cheung
江潤祥先生
MMedSci, Reg. MLT1

ACCREDITED TEST CATEGORY : **Medical Testing 醫務化驗**
認可測試類別 Haematology 血液學

Evangel Hospital – Laboratory
播道醫院 – 化驗室

1/F, 222 Argyle Street, Kowloon, Hong Kong
香港九龍亞皆老街222號1樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Haematology	**Haematology – General** EDTA whole blood	Complete blood count, automated, including: - Haemoglobin - Haematocrit - Leucocyte count (WBC count) - Mean corpuscular haemoglobin (MCH) - Mean corpuscular haemoglobin concentration (MCHC) - Mean Corpuscular volume (MCV) - Platelet count - Red cell count	Sysmex XN-1000
		Leukocyte differential count by Automated method Manual method	Sysmex XN-1000 Manual method as documented in D-LAD-6S-712
		Peripheral blood smear examination by Wright stain	Method as documented in D-LAD-6S-712

Hong Kong Precision Pathology Laboratory Limited
香港精準分子病理化驗所有限公司

ADDRESS **地址**	:	Room 302, 3/F, Harbour Centre Tower Two, 8 Hok Cheung Street, Hunghom, Kowloon, Hong Kong 香港九龍紅磡鶴翔街 8 號維港中心二期 3 樓 302 室
ENQUIRY **查詢**	:	Mr Leslie CHEUNG Kin-nam 張建南先生
TELEPHONE **電話**	:	2613 2369
FAX **傳真**	:	2613 2398
E-MAIL **電郵**	:	leslie.cheung@hkppl.com.hk
WEBSITE ADDRESS **網址**	:	www.hkppl.com.hk
CLIENTELE **服務對象**	:	Private physicians, medical centres, private and public hospitals and other medically related institutions 私家醫生，醫療中心，私營及公營醫院和醫療有關的機構

Hong Kong Precision Pathology Laboratory Limited
香港精準分子病理化驗所有限公司

ADDRESS **地址**	:	Room 302, 3/F, Harbour Centre Tower Two, 8 Hok Cheung Street, Hunghom, Kowloon, Hong Kong 香港九龍紅磡鶴翔街 8 號維港中心二期 3 樓 302 室
LABORATORY DIRECTOR **化驗所主管**	:	**Biomedical Scientist Director 醫務科學主管:** Mr CHEUNG Kin-nam 張建南先生 M. Phil., CSci, FIBMS, Reg Part I MLT (HK)
PATHOLOGIST IN CHARGE OF THE ACCREDITED DISCIPLINE **負責認可範疇的病理學專科醫生**	:	Anatomical Pathology 解剖病理學 Dr CHAN Siu-ki (Consulting 諮詢) 陳紹騏醫生
ACCREDITED TEST CATEGORY **認可測試類別**	:	**Medical Testing 醫務化驗** Anatomical Pathology 解剖病理學

Hong Kong Precision Pathology Laboratory Limited
香港精準分子病理化驗所有限公司

Room 302, 3/F, Harbour Centre Tower Two, 8 Hok Cheung Street, Hunghom, Kowloon, Hong Kong
香港九龍紅磡鶴翔街8號維港中心二期3樓 302室

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examination and for providing clinical interpretation of the examination listed below.			
Anatomical Pathology	**Cytopathology** Gynaecological specimens	Gynaecological cytology examination by Papanicolaou staining	Specimen preparation and staining (manual method): Method as documented in CP-SOP-ThinPrepGyn-030 ThinPrep + Papanicolaou staining

New Life Laboratory Testing Limited
新生命化驗中心有限公司

ADDRESS **地址**	:	Room 1113, 11/F, LT Tower, 31 Chong Yip Street, Kwun Tong, Kowloon, Hong Kong 香港九龍觀塘創業街 31 號 LT Tower 11 樓 1113 室
ENQUIRY **查詢**	:	Dr Savio SZETO Yim-tong 司徒炎棠博士
TELEPHONE **電話**	:	3689 1622
FAX **傳真**	:	3753 5336
E-MAIL **電郵**	:	ytszeto@nlmedtech.com.hk
WEBSITE ADDRESS **網址**	:	N/A
CLIENTELE **服務對象**	:	Private physicians, medical centres, private and public hospitals and other medically related institutions 私家醫生，醫療中心，私營及公營醫院和醫療有關的機構

New Life Laboratory Testing Limited
新生命化驗中心有限公司

ADDRESS **地址**	:	Room 1113, 11/F, LT Tower, 31 Chong Yip Street, Kwun Tong, Kowloon, Hong Kong 香港九龍觀塘創業街 31 號 LT Tower 11 樓 1113 室
LABORATORY DIRECTOR **化驗所主管**	:	**Biomedical Scientist Director 醫務科學主管:** Dr Savio SZETO Yim-tong 司徒炎棠博士 PhD, MSc, HDMLS, Reg. MLT 1
PATHOLOGIST IN CHARGE OF THE ACCREDITED DISCIPLINE **負責認可範疇的病理學專科醫生**	:	Nil
ACCREDITED TEST CATEGORY **認可測試類別**	:	**Medical Testing 醫務化驗** Chemical Pathology 化學病理學 Clinical Microbiology and Infection 臨床微生物學及傳染病

New Life Laboratory Testing Limited
新生命化驗中心有限公司
Room 1113, 11/F, LT Tower, 31 Chong Yip Street, Kwun Tong, Kowloon, Hong Kong
香港九龍觀塘創業街 31 號 LT Tower 11 樓 1113 室

MEDICAL TESTING				
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術	
This laboratory is accredited for performing the examinations listed below.				
Chemical Pathology	**Tumour markers** Serum	Prostate Specific Antigen, Free (FPSA) by Immunoassay (Chemiluminescent label)	BioMerieux Mini Vidas FPSA assay	.vs.
		Prostate Specific Antigen, Total (TPSA) by Immunoassay (Chemiluminescent label)	BioMerieux Mini Vidas TPSA assay	.vs.
		FPSA/TPSA ratio by Calculation	Method as documented in LOM 02-BioMerirux Mini Vidas	.vs.

New Life Laboratory Testing Limited
新生命化驗中心有限公司
Room 1113, 11/F, LT Tower, 31 Chong Yip Street, Kwun Tong, Kowloon, Hong Kong
香港九龍觀塘創業街 31 號 LT Tower 11 樓 1113 室

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Clinical Microbiology and Infection	**Virology – Serology** Serum	Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) Antibody (IgG), quantitative by Immunoassay (Chemiluminescent label)	YHLO iFlash 1800 Analyzer iFlash-SARS-CoV-2 IgG-S

.vs.

New Life Laboratory Testing Limited
新生命化驗中心有限公司
Room 1113, 11/F, LT Tower, 31 Chong Yip Street, Kwun Tong, Kowloon, Hong Kong
香港九龍觀塘創業街 31 號 LT Tower 11 樓 1113 室

Summary of Voluntary Suspension

.vs. denotes the examination for which accreditation has been voluntarily suspended with effect from 1 January 2025 (Notification Letter No. HOKLAS866S-7).

Hospital Authority – Queen Elizabeth Hospital, Department of Pathology
醫院管理局–伊利沙伯醫院病理學部

ADDRESS : Queen Elizabeth Hospital, 30 Gascoigne Road, Kowloon, Hong Kong
地址 香港九龍加士居道 30 號伊利沙伯醫院

ENQUIRY : Mr CHENG Chun-wah
查詢 鄭俊華先生

TELEPHONE : 3506 6839
電話

FAX : 2215 1086
傳真

E-MAIL : cccwz01@ha.org.hk
電郵

WEBSITE ADDRESS : http://www.ha.org.hk/qeh
網址

CLIENTELE : Public and private hospitals and clinics
服務對象 公營及私營醫院和診所

Hospital Authority – Queen Elizabeth Hospital, Department of Pathology
醫院管理局–伊利沙伯醫院病理學部

ADDRESS :
地址

Main Facility

Queen Elizabeth Hospital, 30 Gascoigne Road, Kowloon, Hong Kong
香港九龍加士居道30號伊利沙伯醫院

(i) Anatomical Pathology Laboratory, 9/F & 10/F, Block M
(ii) Autopsy Service, Room 1, LG, Block B
(iii) Chemical Pathology Laboratory, 8/F, Block M
(iv) Core Laboratory and Blood Bank, 6/F, Block M
(v) Haematology Laboratory, 7/F, Block M
(vi) Molecular Pathology Laboratory, 7/F, Block M
(vii) Microbiology Laboratory, 11/F, Block M
(viii) Virology Laboratory, 12/F, Block M

Branch Facility

Department of Pathology, 2/F, Main Building, Kowloon Hospital, 147A Argyle Street, Kowloon, Hong Kong
香港九龍亞皆老街147A九龍醫院主座2樓病理學部

LABORATORY DIRECTOR
化驗所主管 : **Pathologist Director 病理學主管:**
Dr CHEUK Wah
卓華醫生
BSc(Hons), M.B.B.S.(H.K.), F.R.C.P.A., F.H.K.C.Path, F.H.K.A.M.(Pathology)

ACCREDITED TEST CATEGORY
認可測試類別 : **Medical Testing 醫務化驗**

Anatomical Pathology
解剖病理學
Chemical Pathology
化學病理學
Clinical Microbiology and Infection
臨床微生物學及傳染病
Haematology
血液學
Immunology
免疫學
Medical Genetics (Cytogenomics and Molecular Genetics)
醫學遺傳學 (細胞遺傳學 及 分子遺傳學)

Hospital Authority – Queen Elizabeth Hospital, Department of Pathology
醫院管理局–伊利沙伯醫院病理學部
Autopsy Service: Room 1, LG, Block B, Queen Elizabeth Hospital
伊利沙伯醫院 B 座地下低層一號房

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology	**Autopsy** Adult, fetal and perinatal autopsy	Autopsy examination by Routine and special staining	Autopsy method and specimen preparation: Specimen preparation as documented in MT/PC/SPE MT/PC/SOP Haematoxylin & eosin stain, special stain, method as Documented in AP/PC/STA

Hospital Authority – Queen Elizabeth Hospital, Department of Pathology
醫院管理局–伊利沙伯醫院病理學部
Anatomical Pathology Laboratory: 9/F & 10/F, Block M, Queen Elizabeth Hospital
解剖病理學實驗室：伊利沙伯醫院 M 座 9 至 10 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology (cont'd)	**Cytopathology**		
	Fine needle aspirates	Fine needle aspiration cytology examination by	
		H&E, Papanicolaou and special staining	Specimen preparation as documented in AP/PC/FNA, AP/PC/CSP Haematoxylin and Eosin stain Papanicolaou stain Special stains Methods as documented in AP/PC/CNL, AP/PC/STA
	Gynaecological specimens	Gynaecological cytology examination by Papanicolaou staining	Specimen preparation as documented in AP/PC/CTP Papanicolaou staining Method as documented in AP/PC/CNL
	Non-gynaecological specimens	Non-gynaecological cytology examination by	
		Papanicolaou and special staining	Specimen preparation as documented in AP/PC/SRC AP/PC/CNL AP/PC/CSP AP/PC/CTP Papanicolaou staining Giemsa stain Eosinophil granules by Carbol Chromotrope Method as documented in AP/PC/CNL Special stains Fungi, Pnemocystis jirovecill by Grocott's Methenamine Silver Haemosiderin by Perls' Prussian blue Melanin-laden macrophages by Masson Fontana Methods as documented in AP/PC/STA Fat-laden macrophages by Oil Red O Methods as documented in AP/PC/ENZ

Hospital Authority – Queen Elizabeth Hospital, Department of Pathology
醫院管理局–伊利沙伯醫院病理學部
Anatomical Pathology Laboratory: 9/F & 10/F, Block M, Queen Elizabeth Hospital
解剖病理學實驗室：伊利沙伯醫院 M 座 9 至 10 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology (cont'd)	**Electron microscopy** Renal, skeletal muscle, nerve, skin, nasal brush for cilia, tumour, cytology specimens, miscellaneous samples	Histology examination by Transmission electron microscopy	Specimen preparation as documented in AP/PC/EMP
	Histopathology Surgical pathology	Histology examination by H&E and special staining	Specimen preparation as documented in AP/PC/HSR AP/PC/ALL AP/PC/SUR AP/PC/PRO AP/PC/EMB AP/PC/SEC H&E Staining Special staining (manual method) Acid fast bacteria by Ziehl-Neelsen Acidic mucins by Alcian Blue Acidic and neutral mucins by Alcian Blue-PAS Acidic mucins by Southgate's Mucicarmine Amyloid by Highman's Congo Red Amyloid by Crystal Violet Argentaffin granules by Masson Fontana Bacteria by Gram stain Basement membrane by Periodic acid-Silver-Methenamine Calcium salts by Von Kossa Collagen and fibrin by Masson Trichrome Collagen and Mallory bodies by Chromotrope-Aniline Blue Connective tissues by Van Gieson's stain Copper by Rhodanine method Elastic fibres by Verhoeff's – van Gieson stain Fungi by Grocott's Methenamine Silver General histology by Haematoxylin & Eosin Glycol groups by Periodic Acid Schiff (digestion) Haemosiderin by Perls' Prussian Blue HBsAg & elastic fibres by Orcein Leprosy bacilli by Wade-Fite Lipofuscin by Long Ziehl-Neelsen Microorganisms by Gram Twort Mucin by Hyaluronidase digestion-Alcian blue

Hospital Authority – Queen Elizabeth Hospital, Department of Pathology
醫院管理局–伊利沙伯醫院病理學部
Anatomical Pathology Laboratory: 9/F & 10/F, Block M, Queen Elizabeth Hospital
解剖病理學實驗室：伊利沙伯醫院 M 座 9 至 10 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology (cont'd)	**Histopathology (cont'd)**		
	Surgical pathology (cont'd)	Histology examination by H&E and special staining (cont'd)	Special staining (manual method) (cont'd) Myelin by Luxol Fast Blue Myelin by Solochrome Cyanine Neurofibrils by Bielschowsky's Silver Reticulin by Gordon & Sweet's (modified) Collagen and fibrin by Martius yellow-Scarlet-aniline Blue Spirochetes & other microorganism by modified Warthin-Starry method Methods as documented in AP/PC/STA
	Intra-operative frozen section for fresh tissue specimens and biopsies	Histology examinations by H&E and Toluidine blue staining	Specimen preparation and staining as documented in AP/PC/IFS
	Fresh tissue specimens and biopsies, special specimens	Histology examination and enzyme histochemistry by Special staining (manual) and Enzyme histochemistry tests	Specimen preparation, enzyme histochemistry staining, special stains as documented in AP/PC/ENZ NADH-tetrazolium reductase Succinic dehydrogenase (SDH) Phosphorylase Cytochrome C oxidase (COX) COX + SDH Non-specific esterase Van Gieson's stain Modified Gomori trichrome Oil Red O Periodic Acid Schiff

Hospital Authority – Queen Elizabeth Hospital, Department of Pathology
醫院管理局–伊利沙伯醫院病理學部
Anatomical Pathology Laboratory: 9/F & 10/F, Block M, Queen Elizabeth Hospital
解剖病理學實驗室：伊利沙伯醫院 M 座 9 至 10 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology (cont'd)	**Histopathology (cont'd)** Histological specimens	Immunohistochemical examination for various antigen markers by Automated staining method	Slide preparation and staining (Dako Cytomation Autostainer Link 48): Method as documented in AP/PC/IHC Detection system: Dako Cytomation Envision Antigen retrieval: Heat-induced epitope retrieval Slide preparation and staining (BOND-III): Method as documented in AP/PC/IHC Detection system: BOND Polymer detection kit Antigen retrieval: Heat-induced epitope retrieval or enzymatic digestion Slide preparation and staining (VENTANA Benchmark ULTRA): Method as documented in AP/PC/IHC Detection system: OptiView DAB detection kit Antigen retrieval: Heat-induced epitope retrieval or enzymatic digestion Slide preparation and staining (VENTANA Discovery ULTRA): Method as documented in AP/PC/IHC Detection system: Universal HQ Kit and ChromoMAP DAB Kit Antigen retrieval: Heat-induced epitope retrieval or enzymatic digestion
	Renal and skin biopsies	Immunofluorescence examination by Manual method	Specimen preparation and staining by Direct Immunofluorescence: Renal biopsy: IgA / IgM / IgG / C1q / Complement 3 / Fibrinogen / Kappa / Lambda Skin biopsy: IgA / IgM / IgG / Fibrinogen / Complement 3 Method as documented in AP/PC/IMF Specimen preparation and staining by Indirect Immunofluorescence: PLA2R Method as documented in AP/PC/IMF

Hospital Authority – Queen Elizabeth Hospital, Department of Pathology
醫院管理局–伊利沙伯醫院病理學部
Anatomical Pathology Laboratory: 9/F & 10/F, Block M, Queen Elizabeth Hospital
解剖病理學實驗室：伊利沙伯醫院 M 座 9 至 10 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics	**Histopathology (cont'd)**		
	Tissue specimens	Epstein-Barr Virus Early RNA (EBV EBER) by In-situ Hybridization (ISH)	Slide preparation and staining (BOND-III): Method as documented in AP/PC/ISH Detection system: BOND Polymer detection kit
		Kappa and Lambda mRNA by In-situ Hybridization (ISH)	Slide preparation and staining (BOND-III): Method as documented in AP/PC/ISH Detection system: BOND Polymer detection kit
	Molecular Genetics (anatomical pathology)		
	Tissue specimens	Human Papilloma Virus RNA (HPV) by In-situ Hybridization (ISH)	Slide preparation and staining (VENTANA Discovery ULTRA): Method as documented in AP/PC/ISH Detection system: ACD RNAscope VS Universal HRP Reagent Kit
	Breast and gastric tissues	Amplification of Erb-B2 receptor tyrosine kinase 2 (ERBB2, HER2) by Silver In-situ Hybridization (SISH)	Slide preparation and staining (VENTANA Benchmark ULTRA): Method as documented in AP/PC/SIS Detection system: Ventana HER2 Dual ISH DNA probe and kits
		Fluorescence In-situ Hybridization (FISH)	Slide preparation and detection with Abbott reagents and PathVysion HER-2 DNA probe kit Method as documented in AP/PC/FIS Analysis with Automated Bioview Duet System
	Formalin fixed paraffin embedded lung cancer specimens	Detection of Anaplastic Lymphoma Kinase (ALK) gene rearrangement by Fluorescence In-situ Hybridization (FISH)	Slide preparation and detection with Abbott reagents and Vysis Break Apart FISH probe kit Method as documented in AP/PC/FIS Analysis with Automated Bioview Duet System

Hospital Authority – Queen Elizabeth Hospital, Department of Pathology
醫院管理局–伊利沙伯醫院病理學部
Chemical Pathology Laboratory: 8/F, Block M, Queen Elizabeth Hospital
化學病理學實驗室：伊利沙伯醫院 M 座 8 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology	**Biogenic Amine**		
	EDTA plasma	Plasma Free Metanephrines include:	
		Free Metanephrine by Liquid chromatography-tandem mass spectrometry (LC-MS/MS)	Method as documented in CC-PC-PMET using Waters Xevo TQ-S micro system
		Free Normetanephrine by Liquid chromatography-tandem mass spectrometry (LC-MS/MS)	Method as documented in CC-PC-PMET using Waters Xevo TQ-S micro system
		Free 3-Methoxytyramine by Liquid chromatography-tandem mass spectrometry (LC-MS/MS)	Method as documented in CC-PC-PMET using Waters Xevo TQ-S micro system
	Urine	Urine Catecholamines and Free Methanephrines include:	
		Adrenaline by Liquid chromatography-tandem mass spectrometry (LC-MS/MS)	Method as documented in CC-PC-UMET using Waters Xevo TQ-S micro system
		Noradrenaline by Liquid chromatography-tandem mass spectrometry (LC-MS/MS)	Method as documented in CC-PC-UMET using Waters Xevo TQ-S micro system
		Dopamine by Liquid chromatography-tandem mass spectrometry (LC-MS/MS)	Method as documented in CC-PC-UMET using Waters Xevo TQ-S micro system
		Free Metanephrine by Liquid chromatography-tandem mass spectrometry (LC-MS/MS)	Method as documented in CC-PC-UMET using Waters Xevo TQ-S micro system
		Free Normetanephrine by Liquid chromatography-tandem mass spectrometry (LC-MS/MS)	Method as documented in CC-PC-UMET using Waters Xevo TQ-S micro system
		Free 3-Methoxytyramine by Liquid chromatography-tandem mass spectrometry (LC-MS/MS)	Method as documented in CC-PC-UMET using Waters Xevo TQ-S micro system

Hospital Authority – Queen Elizabeth Hospital, Department of Pathology
醫院管理局–伊利沙伯醫院病理學部
Chemical Pathology Laboratory: 8/F, Block M, Queen Elizabeth Hospital
化學病理學實驗室：伊利沙伯醫院 M 座 8 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**Biogenic Amine (cont'd)**		
	Urine (cont'd)	5-Hydroxyindole-3-Acetic Acid by Liquid chromatography-tandem mass spectrometry (LC-MS/MS)	Method as documented in CC-PC-VMA using Waters Xevo TQ-S micro system
		Homovanillic Acid by Liquid chromatography-tandem mass spectrometry (LC-MS/MS)	Method as documented in CC-PC-VMA using Waters Xevo TQ-S micro system
		Vanilmandelic Acid by Liquid chromatography-tandem mass spectrometry (LC-MS/MS)	Method as documented in CC-PC-VMA using Waters Xevo TQ-S micro system
	General Chemistry		
	Li-heparin plasma, body fluid, urine	Osmolality by Freezing point depression	Arkray OM-6000 Osmometer Method as documented in CC-PC-OSM
	Heavy metals and trace elements		
	EDTA plasma, urine	Copper by Inductively Coupled Plasma Mass Spectrometry (ICP-MS)	PerkinElmer NexION 2000G system ICP Mass Spectrometer (ICP-MS) Method as documented in CC-PC-CU
	EDTA blood	Lead by Inductively Coupled Plasma Mass Spectrometry (ICP-MS)	PerkinElmer NexION 2000G system ICP Mass Spectrometer (ICP-MS) Method as documented in CC-PC-BPB
		Lead (Pregnancy/Lactation) by Inductively Coupled Plasma Mass Spectrometry (ICP-MS)	PerkinElmber NexION 2000G system ICP Mass Spectrometer (ICP-MS) Method as documented in CC-PC-BPB
		Zinc by Inductively Coupled Plasma Mass Spectrometry (ICP-MS)	PerkinElmer NexION 2000G system ICP Mass Spectrometer (ICP-MS) Method as documented in CC-PC-PZN

Hospital Authority – Queen Elizabeth Hospital, Department of Pathology
醫院管理局–伊利沙伯醫院病理學部
Chemical Pathology Laboratory: 8/F, Block M, Queen Elizabeth Hospital
化學病理學實驗室：伊利沙伯醫院 M 座 8 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**Hormones**		
	EDTA plasma	Adrenocorticotrophic Hormone (ACTH) by Immunoassay (Electrochemiluminescent label)	Roche cobas 8000 system Elecsys ACTH assay
	CSF	Beta Human Chorionic Gonadotropin, Total, CSF by Immunoassay (Electrochemiluminescent label)	Roche cobas 8000 system Elecsys HCG+β assay
	Serum	Beta Human Chorionic Gonadotropin, Total by Immunoassay (Electrochemiluminescent label)	Roche cobas 8000 system Elecsys HCG+β assay
		Calcitonin by Immunoassay (Electrochemiluminescent label)	Roche cobas 8000 system Elecsys Calcitonin assay
		Cortisol by Immunoassay (Electrochemiluminescent label)	Roche cobas 8000 system Elecsys Cortisol II assay
		Estradiol (E2) by Immunoassay (Electrochemiluminescent label)	Roche cobas 8000 system Elecsys Estradiol III assay
		Follicle Stimulating Hormone (FSH) by Immunoassay (Electrochemiluminescent label)	Roche cobas 8000 system Elecsys FSH assay
		Growth Hormone (GH) by Immunoassay (Electrochemiluminescent label)	Roche cobas 8000 system Elecsys hGH assay
		Insulin by Immunoassay (Electrochemiluminescent label)	Roche cobas 8000 system Elecsys Insulin assay
		Luteinizing Hormone (LH) by Immunoassay (Electrochemiluminescent label)	Roche cobas 8000 system Elecsys LH assay

Hospital Authority – Queen Elizabeth Hospital, Department of Pathology
醫院管理局–伊利沙伯醫院病理學部
Chemical Pathology Laboratory: 8/F, Block M, Queen Elizabeth Hospital
化學病理學實驗室：伊利沙伯醫院 M 座 8 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**Hormones (cont'd)**		
	Serum (cont'd)	Parathyroid Hormone (PTH) by Immunoassay (Electrochemiluminescent label)	Roche cobas 8000 system Elecsys PTH (PTH, 18 minutes application) assay
	EDTA plasma	Parathyroid Hormone (Rapid) by Immunoassay (Electrochemiluminescent label)	Roche cobas 8000 system Elecsys PTH (PTHST, 9 minutes application) assay
	Serum	Progesterone by Immunoassay (Electrochemiluminescent label)	Roche cobas 8000 system Elecsys Progesterone III assay
		Prolactin by Immunoassay (Electrochemiluminescent label)	Roche cobas 8000 system Elecsys Prolactin II assay
		Prolactin (post PEG) by Immunoassay (Electrochemiluminescent label)	Roche cobas 8000 system Elecsys Prolactin II assay Method as documented in CC-PC-PL
		Sex Hormone Binding Globulin (SHBG) by Immunoassay (Electrochemiluminescent label)	Roche cobas 8000 system Elecsys SHBG assay
		Testosterone by Immunoassay (Electrochemiluminescent label)	Roche cobas 8000 system Elecsys Testosterone II assay
		Testosterone (bioavailable, free) by Calculation	Calculation from serum testosterone, serum SHBG, serum albumin
		Thyroid Stimulating Hormone (TSH) by Immunoassay (Electrochemiluminescent label)	Roche cobas 8000 system Elecsys TSH assay
		Thyroxine, Free (FT4) by Immunoassay (Electrochemiluminescent label)	Roche cobas 8000 system Elecsys FT4 IV assay

Hospital Authority – Queen Elizabeth Hospital, Department of Pathology
醫院管理局–伊利沙伯醫院病理學部
Chemical Pathology Laboratory: 8/F, Block M, Queen Elizabeth Hospital
化學病理學實驗室：伊利沙伯醫院 M 座 8 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**Hormones (cont'd)** Serum (cont'd)	Triiodothyronine, Free (FT3) by Immunoassay (Electrochemiluminescent label)	Roche cobas 8000 system Elecsys FT3 III assay
		Free Light Chains (Kappa, Free and Lambda, Free) by Immunoturbidimetry	The Binding Site Optilite Optimised Protein System Freelite Kappa Free assay and Freelite Lambda Free assay
		Kappa/Lambda Ratio by Calculation	Calculation from serum kappa, free and serum lambda, free
		Heavy/Light Chain Pairs (IgA Kappa & IgA Lambda, IgG Kappa & IgG Lambda, IgM Kappa & IgM Lambda) by Immunoturbidimetry	The Binding Site Optilite Optimised Protein system Hevylite IgA Kappa assay, IgA Lambda assay, IgG Kappa assay, IgG Lambda assay, IgM Kappa assay, IgM Lambda assay
		Heavy/Light Chain Pair Ratios (IgA Kappa/IgA Lambda, IgG Kappa/IgG Lambda, IgM Kappa/IgM Lambda) by Calculation	Calculation from serum IgA kappa & serum IgA lambda, serum IgG kappa & serum IgG lambda and serum IgM kappa & serum IgM lambda

Hospital Authority – Queen Elizabeth Hospital, Department of Pathology
醫院管理局–伊利沙伯醫院病理學部
Chemical Pathology Laboratory: 8/F, Block M, Queen Elizabeth Hospital
化學病理學實驗室：伊利沙伯醫院 M 座 8 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**Proteins, qualitative analysis**		
	Serum	Protein Pattern by Capillary Electrophoresis	Sebia Capillarys 3 Tera System
	Urine	Protein Pattern by Electrophoresis	Sebia Hydrasys 2 Scan Focusing System
	Serum	Monoclonal Protein by	
		- Immunotyping	Sebia Capillarys 3 Tera System
		- Immunofixation	Sebia Hydrasys 2 Scan Focusing System
	Urine	Monoclonal Protein by Immunofixation	Sebia Hydrasys 2 Scan Focusing System
	Serum	Cryoglobulin by Precipitation in cold	Method as documented in CC-PC-CRY

Hospital Authority – Queen Elizabeth Hospital, Department of Pathology
醫院管理局–伊利沙伯醫院病理學部
Chemical Pathology Laboratory: 8/F, Block M, Queen Elizabeth Hospital
化學病理學實驗室：伊利沙伯醫院 M 座 8 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**Special Chemistry**		
	Urine	Porphobilinogen by Spectrophotometry	PerkinElmer Lambda 25 UV/VIS Spectrophotometer Method as documented in CC-PC-PBG
	Faeces	Faecal Occult Blood by Latex agglutination reaction (Faecal Immunochemical Test, FIT)	OC-SENSOR PLEDIA system using OC-SENSOR DIANA latex reagent and buffer
	Serum	Indocyanine Green by Spectrophotometry	PerkinElmer Lambda 25 UV/VIS Spectrophotometer Method as documented in CC-PC-ICG
	Blood	Pyruvate by Spectrophotometry	PerkinElmer Lambda 25 UV/VIS Spectrophotometer Method as documented in CC-PC-PYR
	Li-heparin plasma	Heat Labile Alkaline Phosphatase (Heat Stability Index, ALP) by Spectrophotometry and heat treatment	Roche cobas 8000 system ALP2 assay Roche cobas pro system ALP2 assay Method as documented in CC-PC-HAP
	Serum	25-Hydroxy-Vitamin D, Total by Immunoassay (Electrochemiluminescent label)	Roche cobas 8000 system Elecsys Vitamin D total III Method as documented in CC-PC-VITDT
		25-Hydroxy-Vitamin D by Liquid chromatography-tandem mass spectrometry (LC-MS/MS)	Waters Xevo TQ-S micro system Method as documented in CC-PC-25OHD
	Li-heparin plasma	Plasma amino acids by Liquid chromatography-tandem mass spectrometry (LC-MS/MS)	Waters Xevo TQ-S micro system Method as documented in CC-PC-PAA
	Urine	Urine amino acids by Liquid chromatography-tandem mass spectrometry (LC-MS/MS)	Waters Xevo TQ-S micro system Method as documented in CC-PC-PAA

Hospital Authority – Queen Elizabeth Hospital, Department of Pathology
醫院管理局–伊利沙伯醫院病理學部
Chemical Pathology Laboratory: 8/F, Block M, Queen Elizabeth Hospital
化學病理學實驗室：伊利沙伯醫院 M 座 8 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**Special Chemistry (cont'd)**		
	Serum	Aldosterone by	
		Liquid chromatography-tandem mass spectrometry (LC-MS/MS)	Waters Xevo TQ-XS system Method as documented in CC-PC-ALDOMS
	EDTA plasma	Renin activity by	
		Liquid chromatography-tandem mass spectrometry (LC-MS/MS)	Waters Xevo TQ-S micro system Method as documented in CC-PC-PRAMS
	24 hour urine	Cortisol by	
		Liquid chromatography-tandem mass spectrometry (LC-MS/MS)	Waters Xevo TQ-S micro system Method as documented in CC-PC-UCOT
	Serum	Folate by	
		Immunoassay (Electrochemiluminescent label)	Roche cobas 8000 system Elecsys Folate III assay
		Active Vitamin B12 by	
		Immunoassay (Electrochemiluminescent label)	Roche cobas 8000 system Elecsys Active B12 assay
	CSF	Xanthochromia by	
		Spectrophotometry	CARY 3500 UV/VIS Spectrophotometer Method as documented in CC-PC-CAN

Hospital Authority – Queen Elizabeth Hospital, Department of Pathology
醫院管理局–伊利沙伯醫院病理學部
Chemical Pathology Laboratory: 8/F, Block M, Queen Elizabeth Hospital
化學病理學實驗室：伊利沙伯醫院 M 座 8 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**Therapeutic Drug Monitoring**		
	EDTA blood	Cyclosporine A by	
		Liquid chromatography-tandem mass spectrometry (LC-MS/MS)	Waters Xevo TQ-S micro system Method as documented in CC-PC-ISD
		Everolimus by	
		Liquid chromatography-tandem mass spectrometry (LC-MS/MS)	Waters Xevo TQ-S micro system Method as documented in CC-PC-ISD
		Sirolimus by	
		Liquid chromatography-tandem mass spectrometry (LC-MS/MS)	Waters Xevo TQ-S micro system Method as documented in CC-PC-ISD
		Tacrolimus by	
		Liquid chromatography-tandem mass spectrometry (LC-MS/MS)	Waters Xevo TQ-S micro system Method as documented in CC-PC-ISD
	Toxicology		
	Serum	Methanol Screening by	
		Colorimetric Method	Method as documented in CC-PC-MOH
	Urine	Paraquat Screening by	
		Colorimetric Method	Method as documented in CC-PC-PQA
		General unknown screening by	
		Liquid Chromatography Time-of-Flight Mass Spectrometry (LC-TOF-MS)	Waters Xevo G2-XS QTof system Method as documented in CC-PC-DRUG Waters SYNAPT XS Ion Mobility Tof Mass Spectrometer Method as documented in CC-PC-SYNAPT

Hospital Authority – Queen Elizabeth Hospital, Department of Pathology
醫院管理局–伊利沙伯醫院病理學部
Chemical Pathology Laboratory: 8/F, Block M, Queen Elizabeth Hospital
化學病理學實驗室：伊利沙伯醫院 M 座 8 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**Tumour markers**		
	CSF	Alpha-Fetoprotein, CSF (CSF AFP) by Immunoassay (Electrochemiluminescent label)	Roche cobas 8000 system AFP assay
	Serum	Alpha-Fetoprotein (AFP) by Immunoassay (Electrochemiluminescent label)	Roche cobas 8000 system AFP assay
		CA 125 by Immunoassay (Electrochemiluminescent label)	Roche cobas 8000 system Elecsys CA 125 II assay
		CA 19.9 by Immunoassay (Electrochemiluminescent label)	Roche cobas 8000 system Elecsys CA 19-9 assay
		Carcinoembryonic Antigen (CEA) by Immunoassay (Electrochemiluminescent label)	Roche cobas 8000 system Elecsys CEA assay
		Cyfra 21-1 by Immunoassay (Electrochemiluminescent label)	Roche cobas 8000 system Elecsys CYFRA 21-1 assay
		Prostate Specific Antigen, Total (PSA) by Immunoassay (Electrochemiluminescent label)	Roche cobas 8000 system Elecsys total PSA assay

Hospital Authority – Queen Elizabeth Hospital, Department of Pathology
醫院管理局–伊利沙伯醫院病理學部
Chemical Pathology Laboratory: 8/F, Block M, Queen Elizabeth Hospital
化學病理學實驗室：伊利沙伯醫院 M 座 8 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Immunology	**Immunochemistry**		
	Serum	Alpha-1-Antitrypsin (AAT) by Immunoturbidimetry	Roche cobas 8000 system AAT2 assay
		Beta C-Terminal Cross-Linking Telopeptide of Type 1 Collagen (Beta-CTX) by Immunoassay (Electrochemiluminescent label)	Roche cobas 8000 system Elecsys β-CrossLaps/serum assay
		Ceruloplasmin by Immunoturbidimetry	Roche cobas 8000 system CERU assay
		Complement C3 (C3) by Immunoturbidimetry	Roche cobas 8000 system C3C-2 assay
		Complement C4 (C4) by Immunoturbidimetry	Roche cobas 8000 system C4-2 assay
		Dehydroepiandrosterone Sulphate (DHEA-sulphate) by Immunoassay (Electrochemiluminescent label)	Roche cobas 8000 system Elecsys DHEA-S assay
		Haptoglobin by Immunoturbidimetry	Roche cobas 8000 system HAPT2 assay
	Fluoride plasma, serum	Homeostatic Model Assessment (HOMA) (Beta Cell Function, Insulin Sensitivity, Insulin Resistance) by Calculation	Calculation from serum insulin and fasting plasma glucose
	Serum	Immunoglobulin A (IgA) by Immunoturbidimetry	Roche cobas 8000 system IGA-2 assay
		Immunoglobulin G (IgG) by Immunoturbidimetry	Roche cobas 8000 system IGG-2 assay

Hospital Authority – Queen Elizabeth Hospital, Department of Pathology
醫院管理局–伊利沙伯醫院病理學部
Chemical Pathology Laboratory: 8/F, Block M, Queen Elizabeth Hospital
化學病理學實驗室：伊利沙伯醫院 M 座 8 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Immunology (cont'd)	**Immunochemistry (cont'd)**		
	Serum (cont'd)	Immunoglobulin G4 (IgG4) by Immunoturbidimetry	The Binding Site Optilite Optimised Protein system Optilite IgG4 assay
		Immunoglobulin M (IgM) by Immunoturbidimetry	Roche cobas 8000 system IGM-2 assay
		Procollagen Type 1 N-Terminal Propeptide, Total (P1NP, Total) by Immunoassay (Electrochemiluminescent label)	Roche cobas 8000 system Elecsys total P1NP assay
		Thyroglobulin by Immunoassay (Electrochemiluminescent label)	Roche cobas 8000 system Elecsys Tg II assay
	Li-heparin plasma	N-Terminal pro B Type Natriuretic Peptide (NT-proBNP) by Immunoassay (Electrochemiluminescent label)	Roche cobas 8000 system Elecsys proBNP II assay Roche cobas pro system Elecsys proBNP II assay

Hospital Authority – Queen Elizabeth Hospital, Department of Pathology
醫院管理局–伊利沙伯醫院病理學部
Chemical Pathology Laboratory: 8/F, Block M, Queen Elizabeth Hospital
化學病理學實驗室：伊利沙伯醫院 M 座 8 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics	**Molecular Genetics (chemical pathology)** EDTA blood	Genetic analysis of *TPMT/NUDT15* genes by Polymerase chain reaction (PCR) and Sanger sequencing method (Target regions: *TPMT* exon 4, 6 and 9; *NUDT15* exons 1 and 3)	Nucleic acid extraction, nucleic acid amplification and post-amplification processing as documented in CC-PC-GEN and CC-PC-NUDT15
		Genetic analysis of *CYP21A2* gene by Polymerase chain reaction (PCR), Sanger sequencing and Multiplex Ligation-Probe Dependent Amplification (MLPA) methods (Target region: *CYP21A2* gene)	Nucleic acid extraction, nucleic acid amplification and post-amplification processing as documented in CC-PC-GEN and CC-PC-CYP21A2
		Genetic analysis of *VHL* gene by Polymerase chain reaction (PCR), Sanger sequencing and Multiplex Ligation-Probe Dependent Amplification (MLPA) methods (Target region: *VHL* gene)	Nucleic acid extraction, nucleic acid amplification and post-amplification processing as documented in CC-PC-GEN and CC-PC-VHL
		Genetic analysis of *ATP7B* gene by Polymerase chain reaction (PCR), Sanger sequencing and Multiplex Ligation-Probe Dependent Amplification (MLPA) methods (Target region: *ATP7B* gene)	Nucleic acid extraction, nucleic acid amplification and post-amplification processing as documented in CC-PC-GEN and CC-PC-ATP7B
		Genetic analysis of *PTEN* gene by Polymerase chain reaction (PCR), Sanger sequencing and Multiplex Ligation-Probe Dependent Amplification (MLPA) methods (Target region: *PTEN* gene)	Nucleic acid extraction, nucleic acid amplification and post-amplification processing as documented in CC-PC-GEN and CC-PC-PTEN

Hospital Authority – Queen Elizabeth Hospital, Department of Pathology
醫院管理局–伊利沙伯醫院病理學部
Core Laboratory and Blood Bank: 6/F, Block M, Queen Elizabeth Hospital
二十四小時綜合化驗室和血庫：伊利沙伯醫院 M 座 6 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology	**Blood gases and Co-oximetry** Heparinized whole blood	Blood Gas include: pCO_2 by Potentiometry pCO_2-Sensing Electrode)	Siemens RapidLab 1265 system
		pH by Potentiometry (Ion Selective Electrode)	Siemens RapidLab 1265 system
		pO2 by Polarography (Oxygen-Sensing Amperometric Electrode)	Siemens RapidLab 1265 system
		Bass Excess by Auto calculation	Siemens RapidLab 1265 system
		Bicarbonate by Auto calculation	Siemens RapidLab 1265 system
		O_2 Saturation by Auto calculation	Siemens RapidLab 1265 system
		Carboxyhaemoglobin by Co-oximetry	Siemens RapidLab 1265 system
		Deoxyhaemoglobin by Co-oximetry	Siemens RapidLab 1265 system
		Methaemoglobin by Co-oximetry	Siemens RapidLab 1265 system
		Oxyhaemoglobin by Co-oximetry	Siemens RapidLab 1265 system
		Total haemoglobin by Co-oximetry	Siemens RapidLab 1265 system

Hospital Authority – Queen Elizabeth Hospital, Department of Pathology
醫院管理局–伊利沙伯醫院病理學部
Core Laboratory and Blood Bank: 6/F, Block M, Queen Elizabeth Hospital
二十四小時綜合化驗室和血庫：伊利沙伯醫院 M 座 6 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**Blood gases and Co-oximetry (cont'd)**		
	Heparinized cord blood	Arterial Cord Blood Gases:	
		pH by	
		Potentiometry (Ion Selective Electrode)	Siemens RapidLab 1265 system
		pO_2 by	
		Polarography (Oxygen-Sensing Amperometric Electrode)	Siemens RapidLab 1265 system
		pCO_2 by	
		Potentiometry (pCO_2-Sensing Electrode)	Siemens RapidLab 1265 system
		HCO_3 by	
		Autocalculation	Siemens RapidLab 1265 system
		O_2 sat by	
		Autocalculatoin	Siemens RapidLab 1265 system
		Base Excess by	
		Autocalculation	Siemens RapidLab 1265 system
		Venous Cord Blood Gases:	
		pH by	
		Potentiometry (Ion Selective Electrode)	Siemens RapidLab 1265 system
		pO_2 by	
		Polarography (Oxygen-Sensing Amperometric Electrode)	Siemens RapidLab 1265 system
		pCO_2 by	
		Potentiometry (pCO_2-Sensing Electrode)	Siemens RapidLab 1265 system
		HCO_3 by	
		Autocalculation	Siemens RapidLab 1265 system
		O_2 sat by	
		Autocalculatoin	Siemens RapidLab 1265 system
		Base Excess by	
		Autocalculation	Siemens RapidLab 1265 system

Hospital Authority – Queen Elizabeth Hospital, Department of Pathology
醫院管理局–伊利沙伯醫院病理學部
Core Laboratory and Blood Bank: 6/F, Block M, Queen Elizabeth Hospital
二十四小時綜合化驗室和血庫：伊利沙伯醫院 M 座 6 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**General Chemistry**		
	Li-heparin plasma	Alanine Aminotransferase (ALT) by Spectrophotometry	Roche cobas 8000 system ALTPM assay Roche cobas pro system ALTP2 assay
	Li-heparin plasma, body fluid	Albumin by Spectrophotometry	Roche cobas 8000 system ALBP assay Roche cobas pro system ALBP assay
	Urine	Albumin (Microalbumin) by Immunoturbidimetry	Roche cobas 8000 system ALBT2 assay
		Albumin creatinine ratio by Calculation	Calculation from urine albumin and urine creatinine
	Li-heparin plasma	Alkaline Phosphatase (ALP) by Spectrophotometry	Roche cobas 8000 system ALP2 assay Roche cobas pro system ALP2 assay
	EDTA Plasma	Ammonia by Spectrophotometry	Roche cobas pro system NH3L2 assay
	Li-heparin plasma, body fluid	Amylase by Spectrophotometry	Roche cobas 8000 system AMYL2 assay Roche cobas pro system AMYL2 assay
	Urine	Amylase by Spectrophotometry	Roche cobas 8000 system AMYL2 assay Roche cobas pro system AMYL2U assay

Hospital Authority – Queen Elizabeth Hospital, Department of Pathology
醫院管理局–伊利沙伯醫院病理學部
Core Laboratory and Blood Bank: 6/F, Block M, Queen Elizabeth Hospital
二十四小時綜合化驗室和血庫：伊利沙伯醫院 M 座 6 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**General Chemistry (cont'd)**		
	Li-heparin plasma, urine	Amylase Creatinine Clearance Ratio by Calculation	Calculation from plasma amylase, plasma creatinine, urine amylase and urine creatinine
	Li-heparin plasma	Anion Gap by Calculation	Calculation from plasma sodium, potassium, chloride and bicarbonate
	Urine	Anion Gap by Calculation	Calculation from urine sodium, potassium and chloride
	Li-heparin plasma	Aspartate Aminotransferase (AST) by Spectrophotometry	Roche cobas 8000 system ASTPM assay Roche cobas pro system ASTP2 assay
	Serum	Beta-Hydroxybutyrate by Spectrophotometry	Roche cobas 8000 system Stanbio Chemistry for EKF Diagnostics Beta-hydroxybutyrate assay Roche cobas pro system Stanbio Chemistry for EKF Diagnostics Beta-hydroxybutyrate assay
	Li-heparin plasma	Bicarbonate by Spectrophotometry	Roche cobas 8000 system CO2-L assay Roche cobas pro system CO2-L assay
		Bilirubin, Direct by Spectrophotometry	Roche cobas pro system BILD2-J assay
		Bilirubin, Indirect by Calculation	Calculation from plasma bilirubin, total and plasma bilirubin, direct

Hospital Authority – Queen Elizabeth Hospital, Department of Pathology
醫院管理局–伊利沙伯醫院病理學部
Core Laboratory and Blood Bank: 6/F, Block M, Queen Elizabeth Hospital
二十四小時綜合化驗室和血庫：伊利沙伯醫院 M 座 6 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**General Chemistry (cont'd)**		
	Li-heparin plasma, body fluid	Bilirubin, Total by Spectrophotometry	Roche cobas 8000 system BILT3 assay Roche cobas pro system BILT3 assay
		Calcium by Spectrophotometry	Roche coabs 8000 system CA2 assay Roche cobas pro system CA2 assay
	Urine	Calcium by Spectrophotometry	Roche cobas 8000 system CA2 assay Roche cobas pro system CA2U assay
	Li-heparin plasma and urine	Calcium Creatinine Clearance Ratio by Calculation	Calculation from plasma calcium, plasma creatinine, Urine calcium and urine creatinine
	Urine	Calcium Creatinine Ratio by Calculation	Calculation from urine calcium and urine creatinine
	Heparinized whole blood	Calcium, Ionized by Potentiometry (Ion Selective Electrode)	Siemen RapidLab 1265 system
	Li-heparin plasma, body fluid	Chloride by Potentiometry (Indirect Ion Selective Electrode)	Roche cobas 8000 system ISE CL assay Roche cobas pro system ISE CL assay
	Urine	Chloride by Potentiometry (Indirect Ion Selective Electrode)	Roche cobas 8000 system ISE CL assay Roche cobas pro system ISE CL-U assay

Hospital Authority – Queen Elizabeth Hospital, Department of Pathology
醫院管理局–伊利沙伯醫院病理學部
Core Laboratory and Blood Bank: 6/F, Block M, Queen Elizabeth Hospital
二十四小時綜合化驗室和血庫：伊利沙伯醫院 M 座 6 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**General Chemistry (cont'd)**		
	Li-heparin plasma	Cholesterol, High Density Lipoprotein (HDL-C) by Spectrophotometry	Roche cobas 8000 system HDLC4 assay
		Cholesterol, Low Density Lipoprotein (LDL-C) by Calculation	Calculation from plasma cholesterol, total, plasma HDL-C and plasma triglycerides
		Cholesterol, Low Density Lipoprotein (LDL-C) by Spectrophotometry	Roche cobas 8000 system LDLC3 assay
		Cholesterol, Non-HDL (Non-HDL-C) by Calculation	Calculation from plasma cholesterol, total and plasma HDL-C
		Cholesterol, Total by Spectrophotometry	Roche cobas 8000 system CHOL2 assay
	Li-heparin plasma, body fluid	Creatine Kinase (CK) by Spectrophotometry	Roche cobas 8000 system CK (CK2) assay Roche cobas pro system CK (CK2) assay
	Li-heparin plasma, body fluid	Creatinine by Spectrophotometry	Roche cobase 8000 system CREA2 (Enzymatic) assay Roche cobas pro system CREP2 (Enzymatic) assay
	Urine	Creatinine by Spectrophotometry	Roche cobas 8000 system CRE2U (Enzymatic) assay Roche cobas pro system CREP2U (Enzymatic) assay

Hospital Authority – Queen Elizabeth Hospital, Department of Pathology
醫院管理局–伊利沙伯醫院病理學部
Core Laboratory and Blood Bank: 6/F, Block M, Queen Elizabeth Hospital
二十四小時綜合化驗室和血庫：伊利沙伯醫院 M 座 6 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**General Chemistry (cont'd)**		
	Li-heparin plasma, urine	Creatinine clearance by Calculation	Calculation from plasma creatinine and urine creatinine
	Li-heparin plasma	Estimated Glomerular Filtration Rate (eGFR) by Calculation	Calculation from plasma creatinine
	Serum	Fructosamine by Spectrophotometry	Roche cobas 8000 system FRA assay
	Li-heparin plasma	Gamma-Glutamyl Transferase (GGT) by Spectrophotometry	Roche cobas 8000 system GGT-2 assay Roche cobas pro system GGT-2 assay
		Globulin by Calculation	Calculation from plasma protein, total and plasma albumin
	CSF	Glucose by Spectrophotometry	Roche cobas pro system GLUC3C assay
	Fluoride plasma, body fluid	Glucose by Spectrophotometry	Roche cobas 8000 system GLUC3 assay Roche cobas pro system GLUC3 assay
	Fluoride plasma	Glucose, Fasting by Spectrophotometry	Roche cobas 8000 system GLUC3 assay Roche cobas pro system GLUC3 assay
	Li-heparin plasma	Haemoglobin, Free by Spectrophotometry (Calculation from H-index)	Roche cobas 8000 system S12 assay Roche cobas pro system S12 assay

Hospital Authority – Queen Elizabeth Hospital, Department of Pathology
醫院管理局–伊利沙伯醫院病理學部
Core Laboratory and Blood Bank: 6/F, Block M, Queen Elizabeth Hospital
二十四小時綜合化驗室和血庫：伊利沙伯醫院 M 座 6 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**General Chemistry (cont'd)**		
	Serum	Iron by Spectrophotometry	Roche cobas 8000 system IRON2 assay
		Iron Binding Capacity, Total (TIBC) by Calculation	Calculation from serum iron and serum UIBC
		Iron Binding Capacity, Unsaturated (UIBC) by Spectrophotometry	Roche cobas 8000 system UIBC assay
		Iron Saturation by Calculation	Calculation from serum iron and serum UIBC
	CSF	L-Lactate by Spectrophotometry	Roche cobas pro system LACT2C assay
	Fluoride plasma	L-Lactate by Spectrophotometry	Roche cobas pro system LACT2P assay
	Li-heparin plasma, body fluid	Lactate Dehydrogenase (LDH) by Spectrophotometry	Roche cobas 8000 system LDHI2 assay Roche cobas pro system LDHI2 assay
	Li-heparin plasma	Magnesium by Spectrophotometry	Roche cobas pro system MG2 assay
	Urine	Magnesium by Spectrophotometry	Roche cobas pro system MG2U assay

Hospital Authority – Queen Elizabeth Hospital, Department of Pathology
醫院管理局–伊利沙伯醫院病理學部
Core Laboratory and Blood Bank: 6/F, Block M, Queen Elizabeth Hospital
二十四小時綜合化驗室和血庫：伊利沙伯醫院 M 座 6 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**General Chemistry (cont'd)**		
	Li-heparin plasma, body fluid, urine	Osmolality by Freezing point depression	Arkray OM-6060 Osmometer Method as documented in CC-PC-OSM
	Li-heparin plasma, body fluid	Phosphate by Spectrophotometry	Roche cobas 8000 system PHOS2 assay Roche cobas pro system PHOS2 assay
	Urine	Phosphate by Spectrophotometry	Roche cobas 8000 system PHO2U assay Roche cobas pro system PHOS2U assay
	Li-heparin plasma, body fluid	Potassium by Potentiometry (Indirect Ion Selective Electrode)	Roche cobas 8000 system ISE K assay Roche cobas pro system ISE K assay
	Urine	Potassium by Potentiometry (Indirect Ion Selective Electrode)	Roche cobas 8000 system ISE K assay Roche cobas pro system ISE K-U assay
	CSF	Protein, Total by Turbidimetry	Roche cobas pro system TPC3 assay

Hospital Authority – Queen Elizabeth Hospital, Department of Pathology
醫院管理局–伊利沙伯醫院病理學部
Core Laboratory and Blood Bank: 6/F, Block M, Queen Elizabeth Hospital
二十四小時綜合化驗室和血庫：伊利沙伯醫院 M 座 6 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**General Chemistry (cont'd)**		
	Li-heparin plasma, body fluid	Protein, Total by Spectrophotometry	Roche cobas 8000 system TP2 assay Roche cobas pro system TP2 assay
	Urine	Protein, Total by Turbidimetry	Roche cobas 8000 system TPU3 assay
		Protein Creatinine Ratio by Calculation	Calculation from urine protein, total and urine creatinine
	Li-heparin plasma, urine	Ratio of Renal Tubular Maximum Reabsorption Rate of Phosphate of Glomerular Filtration Rate (TmP/GFR) by Calculation	Calculation from plasma creatinine, plasma phosphate, urine creatinine and urine phosphate
	Li-heparin plasma, body fluid	Sodium by Potentiometry (Indirect Ion Selective Electrode)	Roche cobas 8000 system ISE NA assay Roche cobas pro system ISE NA assay
	Urine	Sodium by Potentiometry (Indirect Ion Selective Electrode)	Roche cobas 8000 system ISE NA assay Roche cobas pro system ISE NA-U assay
	Li-heparin plasma, urine	Trans-Tubular Potassium Gradient (TTKG) by Calculation	Calculation from plasma osmolality, plasma potassium, urine osmolality and urine potassium
	Li-heparin plasma	Triglycerides by Spectrophotometry	Roche cobas 8000 system TRIGL assay

Hospital Authority – Queen Elizabeth Hospital, Department of Pathology
醫院管理局–伊利沙伯醫院病理學部
Core Laboratory and Blood Bank: 6/F, Block M, Queen Elizabeth Hospital
二十四小時綜合化驗室和血庫：伊利沙伯醫院 M 座 6 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**General Chemistry (cont'd)**		
	Li-heparin plasma (cont'd)	Troponin I, High Sensitivity (hs TnI) by Immunoassay (Chemiluminescent label)	Abbott Architect *i*2000SR system STAT High Sensitive Troponin-I assay
		Urate by Spectrophotometry	Roche cobas 8000 system UA2 assay Roche cobas pro system UA2 assay
		Urate, on Uricase by Spectrophotometry	Roche cobas 8000 system UA2 assay Roche cobas pro system UA2 assay
	Body fluid	Urate by Spectrophotometry	Roche cobas 8000 system UA2 assay Roche cobas pro system UA2 assay
	Urine	Urate by Spectrophotometry	Roche cobas 8000 system UA2-U assay Roche cobas pro system UA2U assay
	Li-heparin plasma, body fluid	Urea by Spectrophotometry	Roche cobas 8000 system UREAL assay Roche cobas pro system UREAL assay
	Urine	Urea by Spectrophotometry	Roche cobas 8000 system URELU assay Roche cobas pro system URELU assay

Hospital Authority – Queen Elizabeth Hospital, Department of Pathology
醫院管理局–伊利沙伯醫院病理學部
Core Laboratory and Blood Bank: 6/F, Block M, Queen Elizabeth Hospital
二十四小時綜合化驗室和血庫：伊利沙伯醫院 M 座 6 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**Protein, quantitative analysis**		
	Li-heparin plasma, serum	C-Reactive Protein (CRP) by Immunoturbidimetry	Roche cobas 8000 system CRP4 assay Roche cobas pro system CRP4 assay
		C-Reactive Protein, high sensitive (hsCRP) by Immunoturbidimetry	Roche cobas 8000 system CRPHS assay Roche cobas pro system CRPHS assay
	Serum	Ferritin by Immunoassay (Electrochemiluminescent label)	Roche cobas 8000 system Elecsys Ferritin assay Roche cobas pro system Elecsys Ferritin assay
	Therapeutic Drug Monitoring		
	Serum	Carbamazepine by Immunoassay (Chemiluminescent label)	Abbott Architect *i*2000SR system *i*Carbamazepine assay
		Digoxin by Immunoassay (Chemiluminescent label)	Abbott Architect *i*2000SR system *i*Digoxin assay
		Gentamicin by Immunoassay (Chemiluminescent label)	Abbott Architect *i*2000SR system *i*Gentamicin assay
		Methotrexate by Immunoassay (Chemiluminescent label)	Abbott Architect *i*2000SR system Methotrexate assay
		Phenobarbital by Immunoassay (Chemiluminescent label)	Abbott Architect *i*2000SR system *i*Phenobarbital assay

Hospital Authority – Queen Elizabeth Hospital, Department of Pathology
醫院管理局–伊利沙伯醫院病理學部
Core Laboratory and Blood Bank: 6/F, Block M, Queen Elizabeth Hospital
二十四小時綜合化驗室和血庫：伊利沙伯醫院 M 座 6 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**Therapeutic Drug Monitoring (cont'd)**		
	Serum (cont'd)	Phenytoin by Immunoassay (Chemiluminescent label)	Abbott Architect *i*2000SR system *i*Phenytoin assay
		Theophylline by Immunoassay (Chemiluminescent label)	Abbott Architect *i*2000SR system *i*Theophylline assay
		Valproic Acid by Immunoassay (Chemiluminescent label)	Abbott Architect *i*2000SR system *i*Valproic Acid assay
		Vancomycin by Immunoassay (Chemiluminescent label)	Abbott Architect *i*2000SR system *i*Vancomycin assay
		Amikacin by Immunoassay (Kinetic interaction of Microparticles in solution)	Roche cobas pro system AMIK2 assay
		Lithium by Spectrophotometry	Roche cobas pro system LI assay
	Toxicology		
	Serum	Pseudocholinesterase by Spectrophotometry	Roche cobas pro system CHE2 assay
		Ethanol by Spectrophotometry	Roche cobas pro system ETOH2 assay
		Paracetamol by Homogeneous enzyme immunoassay	Roche cobas pro system ACET2 assay
		Salicylate by Spectrophotometry	Roche cobas pro system SALI assay

Hospital Authority – Queen Elizabeth Hospital, Department of Pathology
醫院管理局–伊利沙伯醫院病理學部
Core Laboratory and Blood Bank: 6/F, Block M, Queen Elizabeth Hospital
二十四小時綜合化驗室和血庫：伊利沙伯醫院 M 座 6 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology	**Blood Bank - Antenatal screening**		
	EDTA blood	ABO / Rh(D) typing by	
		Red cell agglutination	
		- Automated	BioRad IH-1000
		- Manual	Method as documented in KCC/QEH/PAT/HS/WI/ANS
		Antibody screening by	
		- Red cell agglutination, automated	BioRad IH-1000
		- Red cell agglutination, manual	Method as documented in KCC/QEH/PAT/HS/WI/ANS
		- Saline indirect antiglobulin test	
	Blood Bank - General		
	EDTA blood	ABO / Rh(D) typing by	
		Red cell agglutination	
		- Automated	BioRad IH-1000
		- Manual	Method as documented in KCC/QEH/PAT/BB/PC/MET
		Antibody screening by	
		- Red cell agglutination, automated	BioRad IH-1000
		- Red cell agglutination, manual	Method as documented in KCC/QEH/PAT/BB/PC/MET
		- Saline indirect antiglobulin test	Method as documented in KCC/QEH/PAT/BB/PC/MET
		Red cell phenotyping by	
		- Red cell agglutination	Method as documented in KCC/QEH/PAT/HS/PC/STQ
		- Indirect antiglobulin test (IAT)	
		Crossmatch by	
		- Computer crossmatch	Method as documented in KCC/QEH/PAT/BB/PC/MET
		- Immediate spin	
		- Indirect antiglobulin test (IAT)	
	Blood Bank - Immunohaematology		
	EDTA blood	Direct antiglobulin test (DAT) by	
		Conventional method	Method as documented in KCC/QEH/PAT/HS/PC/STQ
		Antibody identification by	
		Red cell agglutination, manual	Method as documented in KCC/QEH/PAT/HS/WI/ABID
		Antibody titration	Method as documented in KCC/QEH/PAT/HS/PC/SMIS
		Antibody elution and identification	Method as documented in KCC/QEH/PAT/HS/PC/STQ

Hospital Authority – Queen Elizabeth Hospital, Department of Pathology
醫院管理局–伊利沙伯醫院病理學部
Core Laboratory and Blood Bank: 6/F, Block M, Queen Elizabeth Hospital
二十四小時綜合化驗室和血庫：伊利沙伯醫院 M 座 6 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology (cont'd)	**Coagulation** Citrate blood	Coagulation studies, automated including - Prothrombin time (PT) - International Normalised Ratio (INR) - Activated Partial Thromoboplastin Time (APTT) - Fibrinogen - Thrombin Time (TT)	Werfen ACL TOP 750 CTS Method as documented in KCC/QEH/PAT/HS/PC/TOP
		D-dimer by latex-enhanced turbidimetric immunoassay	Werfen ACL TOP 750 CTS Method as documented in KCC/QEH/PAT/HS/PC/TOP

Hospital Authority – Queen Elizabeth Hospital, Department of Pathology
醫院管理局–伊利沙伯醫院病理學部
Core Laboratory and Blood Bank: 6/F, Block M, Queen Elizabeth Hospital
二十四小時綜合化驗室和血庫：伊利沙伯醫院 M 座 6 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology (cont'd)	**Haematology - General**		
	EDTA blood	Complete blood count, including - Haemoglobin - Haematocrit - Red cell count - Mean corpuscular volume (MCV) - Mean corpuscular haemoglobin (MCH) - Mean corpuscular haemoglobin concentration (MCHC) - Red cell distribution width (RDW) - Leukocyte count - Platelet count - Mean platelet volume (MPV)	Abbott Alinity hq, Sysmex XN9100 Method as documented in KCC/QEH/PAT/HS/PC/SC1
		Leukocyte differential count - Automated - Manual	Abbott Alinity hq, Sysmex XN9100 Method as documented in KCC/QEH/PAT/HS/PC/BF1
		Reticulocyte count - Automated	Abbott Alinity hq, Sysmex XN9100 Method as documented in KCC/QEH/PAT/HS/PC/BS1
		Peripheral blood smear examination Smear staining by - May Grunwald-Gismsa stain - Automated method	 Method as documented in KCC/QEH/PAT/HS/PC/BF1 Siemens Hematek 3000
		Malaria parasite examination by Thick and thin smears	 Method as documented in KCC/QEH/PAT/HS/PC/DMP

Hospital Authority – Queen Elizabeth Hospital, Department of Pathology
醫院管理局–伊利沙伯醫院病理學部
Core Laboratory and Blood Bank: 6/F, Block M, Queen Elizabeth Hospital
二十四小時綜合化驗室和血庫：伊利沙伯醫院 M 座 6 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology (cont'd)	**Haematology - General (cont'd)**		
	EDTA blood (cont'd)	Erythrocyte sedimentation rate (ESR) by Automated method	Diesse CUBE 30 Touch Method as documented in KCC/QEH/PAT/HS/PC/C30T
	EDTA bone marrow blood aspirate, clot, trephine imprint	Bone marrow examination Bone marrow smear staining by - May Grunwald-Giemsa stain	Leica ST4020 Rushabh HistoPro 620
		- Perl's Prussian Blue stain	Method as documented in KCC/QEH/PAT/HS/PC/BS1

Hospital Authority – Queen Elizabeth Hospital, Department of Pathology
醫院管理局–伊利沙伯醫院病理學部
Microbiology Laboratory: 11/F, Block M, Queen Elizabeth Hospital
微生物學實驗室：伊利沙伯醫院 M 座 11 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection	**Bacteriology - culture and sensitivity tests and/or microscopy**		
	Blood culture	Culture and antimicrobial susceptibility tests for pathogens by Aerobic and anaerobic broth culture	Method as documented in KCC/QEH/PAT/MM/PC/BLD
	Blood transfusion remnants	Microscopy for microorganisms by Gram stain	Method as documented in KCC/QEH/PAT/MM/PC/BLD
		Culture and antimicrobial susceptibility tests for pathogens by Aerobic and anaerobic broth culture	Method as documented in KCC/QEH/PAT/MM/PC/BLD
	CSF	Microscopy for - Cell count by counting chamber - Microorganisms by Gram stain - Encapsulated yeast by Nigrosin stain solution	Method as documented in KCC/QEH/PAT/MM/PC/CSF
		Microscopy for cell count by Automated method	Sysmex XN-1000
		Culture and antimicrobial susceptibility tests for pathogens by Aerobic and anaerobic culture	Method as documented in KCC/QEH/PAT/MM/PC/CSF
	Enteric samples (including stool and rectal swab)	Microscopy for RBC and WBC	Method as documented in KCC/QEH/PAT/MM/PC/STO
		Culture and antimicrobial susceptibility tests for enteric pathogens by Aerobic and microaerophilic culture	Method as documented in KCC/QEH/PAT/MM/PC/STO

Hospital Authority – Queen Elizabeth Hospital, Department of Pathology
醫院管理局–伊利沙伯醫院病理學部
Microbiology Laboratory: 11/F, Block M, Queen Elizabeth Hospital
微生物學實驗室：伊利沙伯醫院 M 座 11 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Bacteriology - culture and sensitivity tests and/or microscopy (cont'd)**		
	Genital samples (including HVS, LVS, endocervical swab, and urethral swab, etc.)	Microscopy for cell morphology and Microorganisms by Gram stain	Method as documented in KCC/QEH/PAT/MM/PC/HVS
		Microscopy for *Trichomonas* and *Candida* by Direct wet smear	Method as documented in KCC/QEH/PAT/MM/PC/HVS
		Culture and antimicrobial susceptibility tests for pathogens by Aerobic culture	Method as documented in KCC/QEH/PAT/MM/PC/HVS
		Culture and antimicrobial susceptibility tests for *Neisseria gonorrhoeae*	Method as documented in KCC/QEH/PAT/MM/PC/HVS
	Vaginal-rectal swab	Culture and antimicrobial susceptibility tests for Group B Streptococcus by Aerobic culture	Method as documented in KCC/QEH/PAT/MM/PC/HVS
	Urine	Culture and antimicrobial susceptibility tests for pathogens by Standard loop method	Method as documented in KCC/QEH/PAT/MM/PC/URI
	Miscellaneous samples (including body fluid from sterile sites, pus, tissues, etc.)	Microscopy for cell morphology and microorganisms by Gram stain	Method as documented in KCC/QEH/PAT/MM/PC/MIS
		Culture and antimicrobial susceptibility tests for pathogens by Aerobic and anaerobic culture	Method as documented in KCC/QEH/PAT/MM/PC/MIS
	Body fluid from sterile sites	Cell count by Automated method	Sysmex XN-1000
	Joint fluid, bile, pus-like body fluid	Semi-quantitative cell count by Gram stain	Method as documented in KCC/QEH/PAT/MM/PC/MIS
	Peritoneal dialysate fluid	Microscopy for eosinophil count by Giemsa stain	Method as documented in KCC/QEH/PAT/MM/PC/MIS

Hospital Authority – Queen Elizabeth Hospital, Department of Pathology
醫院管理局–伊利沙伯醫院病理學部
Microbiology Laboratory: 11/F, Block M, Queen Elizabeth Hospital
微生物學實驗室：伊利沙伯醫院 M 座 11 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Bacteriology - culture and sensitivity tests and/or microscopy (cont'd)**		
	Miscellaneous samples (including eye swabs, other swabs, etc.)	Microscopy for cell morphology and microorganisms by Gram stain	Method as documented in KCC/QEH/PAT/MM/PC/MIS
	Miscellaneous samples (including swabs, catheters, etc.)	Culture and antimicrobial susceptibility tests for pathogens by Aerobic and anaerobic culture	Method as documented in KCC/QEH/PAT/MM/PC/MIS
	Nasopharyngeal swab	Culture for *Bordetella pertussis* and *Bordetella parapertussis* by Aerobic culture	Method as documented in KCC/QEH/PAT/MM/PC/SPT
	Lower respiratory tract samples (including sputum, tracheal aspirate, etc.)	Microscopy for WBC and epithelial cells by Safranin	Method as documented in KCC/QEH/PAT/MM/PC/SPT
		Culture and antimicrobial susceptibility tests for respiratory tract pathogens by Aerobic culture	Method as documented in KCC/QEH/PAT/MM/PC/SPT
		Culture for *Legionella* species by Aerobic culture	Method as documented in KCC/QEH/PAT/MM/PC/SPT
	Bronchial aspirate, bronchoalveolar lavage, and protected bronchial brush	Microscopy for cell morphology and microorganism by Gram stain	Method as documented in KCC/QEH/PAT/MM/PC/SPT
	Bronchoalveolar lavage and protected bronchial brush	Quantitative culture and antimicrobial susceptibility tests for respiratory tract pathogens by Aerobic culture	Method as documented in KCC/QEH/PAT/MM/PC/SPT
	Upper respiratory tract samples (including throat swab, nasal swab, etc.)	Culture and antimicrobial susceptibility tests for respiratory tract pathogens by Aerobic culture	Method as documented in KCC/QEH/PAT/MM/PC/SPT

Hospital Authority – Queen Elizabeth Hospital, Department of Pathology
醫院管理局–伊利沙伯醫院病理學部
Microbiology Laboratory: 11/F, Block M, Queen Elizabeth Hospital
微生物學實驗室：伊利沙伯醫院 M 座 11 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Bacteriology - culture and sensitivity tests and/or microscopy (cont'd)**		
	Rectal swab, stool, urine	Culture and antimicrobial susceptibility tests for Carbapenemase Producing *Enterobacteriaceae* (CPE)	Method as documented in KCC/QEH/PAT/MM/PC/SUR
		Culture and antimicrobial susceptibility tests for Vancomycin Resistant *Enterococcus* (VRE)	Method as documented in KCC/QEH/PAT/MM/PC/SUR
	Nasal swab and other samples (including axilla swab, sputum, wound swab, etc.)	Culture and antimicrobial susceptibility tests for Methicillin Resistant *Staphylococcus aureus* (MRSA)	Method as documented in KCC/QEH/PAT/MM/PC/SUR
	Throat swab, rectal swab, sputum, urine, wound swab, etc.	Culture and antimicrobial susceptibility tests for Multidrug Resistant *Acinetobacter*	Method as documented in KCC/QEH/PAT/MM/PC/SUR
		Culture and antimicrobial susceptibility tests for Multidrug Resistant *Pseudomonas aeruginosa*	Method as documented in KCC/QEH/PAT/MM/PC/SUR
	Nasal swab, combined swab (axilla and groin)	Culture for *Candida auris* by Aerobic method	Method as documented in KCC/QEH/PAT/MM/PC/SUR
	Clinical isolates	Identification of clinical isolates by - Conventional biochemical tests	Method as documented in KCC/QEH/PAT/MM/PC/MRS
		- MALDI-TOF mass spectrometry	Method as documented in KCC/QEH/PAT/MM/PC/MAL using MALDI Biotyper® IVD System based on microflex® LT and MALDI Biotyper-BD Sirius IVD System
		Identification of Carbapenemas Producing *Enterobacteriaceae* by - Rapid carbapenemase detection	BIO-RAD β CARBA test
		- Immunochromatographic assay	NG-Test CARBA 5 test

Hospital Authority – Queen Elizabeth Hospital, Department of Pathology
醫院管理局–伊利沙伯醫院病理學部
Microbiology Laboratory: 11/F, Block M, Queen Elizabeth Hospital
微生物學實驗室：伊利沙伯醫院 M 座 11 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Mycology – Culture and ID**		
	Dermatological samples (including hair, nail, skin, etc.)	Microscopy of fungal elements by KOH direct smear	Method as documented in KCC/QEH/PAT/MM/PC/MYC
		Culture for mould and yeasts by Conventional method	Method as documented in KCC/QEH/PAT/MM/PC/MYC
	Blood culture	Fungal culture by Automated blood culture method	Method as documented in KCC/QEH/PAT/MM/PC/BLD
	Stool	Culture for Mucorales by Conventional method	Method as documented in KCC/QEH/PAT/MM/PC/MYC
	All samples (except for corneal scraping, swabs, and stool)	Microscopic examination of fungal elements by Gram stain	Method as documented in KCC/QEH/PAT/MM/PC/MYC
	All samples	Fungal culture by Conventional method	Method as documented in KCC/QEH/PAT/MM/PC/MYC
	Fungal isolates	Identification of filamentous fungi by Macroscopic and microscopic examinations	Method as documented in KCC/QEH/PAT/MM/PC/MYC
		Identification of yeasts by MALDI-TOF mass spectrometry	Method as documented in KCC/QEH/PAT/MM/PC/MAL using MALDI Biotyper® IVD System based on microflex® LT and MALDI Biotyper-BD Sirius IVD System
	Microbiology - Miscellaneous tests		
	Urine	Pregnancy test for human chorionic gonadotrophin (hCG), qualitative by Immunochromatographic assay	RightSign Pregnancy test kit
	Serum	Procalcitonin by Enzyme linked fluorescent assay (ELFA)	bioMérieux VIDAS BRAHMS PCT assay

Hospital Authority – Queen Elizabeth Hospital, Department of Pathology
醫院管理局–伊利沙伯醫院病理學部
Microbiology Laboratory: 11/F, Block M, Queen Elizabeth Hospital
微生物學實驗室：伊利沙伯醫院 M 座 11 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Parasitology**		
	Stool	Microscopic examination for intestinal ova and parasite by Concentration method	Method as documented in KCC/QEH/PAT/MM/PC/PAR
		Microscopic examination for intestinal amoeba by Direct wet smear	Method as documented in KCC/QEH/PAT/MM/PC/PAR
		Fecal permanent stain by - Wheatley's Trichrome stain - Cold Kinyoun acid-fast stain - Modified trichrome stain	Method as documented in KCC/QEH/PAT/MM/PC/PAR
	Corneal scraping	Microscopy for amoeba by Direct wet smear	Method as documented in KCC/QEH/PAT/MM/PC/MIS
		Culture and identification for amoeba by Conventional method	Method as documented in KCC/QEH/PAT/MM/PC/MIS
	Urine, sputum, liver aspirates, duodenal fluid	Microscopic examination for ova and parasites by Concentration method	Method as documented in KCC/QEH/PAT/MM/PC/PAR
	Skin scrapping, worm, worm segment, cellulose tape on slide	Macroscopic and microscopic examination for parasite	Method as documented in KCC-QEH/PAT/MM/PC/PAR
	Urinalysis and/or urine microscopy		
	Urine	Urine microscopy for dysmorphic RBC	Method as documented in KCC/QEH/PAT/MM/PC/URI
		Urine chemical test by visual, including: - Glucose - Protein	Method as documented in KCC/QEH/PAT/MM/PC/URI
		Urine microscopy for semi-quantitative count for RBC, WBC and casts by Fixed volume microtiter plate method	Method as documented in KCC/QEH/PAT/MM/PC/URI

Hospital Authority – Queen Elizabeth Hospital, Department of Pathology
醫院管理局–伊利沙伯醫院病理學部
Microbiology Laboratory: 11/F, Block M, Queen Elizabeth Hospital
微生物學實驗室：伊利沙伯醫院 M 座 11 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Molecular Genetics (microbiology)** Respiratory specimens	Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) – detection by Real-time Polymerase Chain Reaction, qualitative (Target region: E gene and N gene)	Method as documented in KCC/QEH/PAT/MM/PC/MPE and KCC/QEH/PAT/MM/PC/SCVT using TIB Molbio LightMix SARS-CoV-2 E+N UBC kit, Roche LightCycler 480 II system
		Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) – detection by Real-time Polymerase Chain Reaction, qualitative (Target region: E gene and ORF1ab gene)	Method as documented in KCC/QEH/PAT/MM/PC/SCVC using Cobas SARS-CoV-2 kit, Roche cobas 6800

Hospital Authority – Queen Elizabeth Hospital, Department of Pathology
醫院管理局–伊利沙伯醫院病理學部
Virology Laboratory: 12/F, Block M, Queen Elizabeth Hospital
病毒學實驗室: 伊利沙伯醫院 M 座 12 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Bacteriology – Serology**		
	Urine	Detection of *Legionella pneumophila* serogroup 1 antigen by Immunochromatographic assay	Binax NOW *Legionella* Urinary Antigen Test
	Serum	*Brucella* antibody by Agglutination test	Method as documented in KCC/QEH/PAT/MM/PC/BRU
		Anti-Streptolysin O antibody by Latex agglutination assay	Method as documented in KCC/QEH/PAT/MM/PC/ASO
	Mycology – Serological Tests		
	CSF, serum	*Cryptococcal* antigen by Quantitative lateral flow assay	IMMY Cryptococcal antigen lateral flow assay
	Serum	(1,3)-Beta-D-Glucan by Protease zymogen-based colorimetric assay	Fungitell assay
	Virology – Serology		
	Serum	Hepatitis B virus antibody Anti-HBs, quantitative by Immunoassay (Chemiluminescent label)	Abbott ARCHITECT *i*1000SR Anti-HBs Assay
		Hepatitis B virus antigen (HBsAg) by	
		- Immunoassay	Method as documented in KCC/QEH/PAT/MM/PC/HBV
		(Chemiluminescent label)	Abbott ARCHITECT *i*1000SR HBsAg Qualitative II Assay Abbott ARCHITECT *i*1000SR HBsAg Qualitative II Confirmatory Assay
		Hepatitis C virus antibody by	
		- Immunoassay	Method as documented in KCC/QEH/PAT/MM/PC/HCV
		(Chemiluminescent label)	Abbott ARCHITECT *i*1000SR Anti-HCV Assay

Hospital Authority – Queen Elizabeth Hospital, Department of Pathology
醫院管理局–伊利沙伯醫院病理學部
Virology Laboratory: 12/F, Block M, Queen Elizabeth Hospital
病毒學實驗室: 伊利沙伯醫院 M 座 12 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Virology – Serology (cont'd)** Serum (cont'd)	Human immunodeficiency virus antibody and p24 antigen by	
		- Immunoassay (Chemiluminescent Label) (Screening)	Method as documented in KCC/QEH/PAT/MM/PC/HIV Abbott ARCHITECT *i*1000SR HIV Ag/Ab Combo Assay
		- Immunochromatographic assay (Confirmation)	Geenius HIV 1/2 Confirmatory Assay
		Hepatitis A virus IgM antibody by Enzyme linked fluorescent assay (ELFA)	bioMérieux VIDAS HAV IgM Assay
		Hepatitis A virus IgG antibody by Immunoassay (Chemiluminescent label)	Abbott ARCHITECT *i*1000SR HAVAb-IgG Assay
		Anti-HBc (Total) by Enzyme linked fluorescent assay (ELFA)	bioMérieux VIDAS Anti-HBc Total II Assay
		Anti-HBc (IgM) by Enzyme linked fluorescent assay (ELFA)	bioMérieux VIDAS HBc IgM II Assay
		HBeAg by	
		- Immunoassay (Chemiluminescent label)	Abbott ARCHITECT *i*1000SR HBeAg Assay
		- Enzyme linked fluorescent assay (ELFA)	bioMérieux VIDAS HBe/Anti-HBe Assay
		Anti-HBe by Enzyme linked fluorescent assay (ELFA)	bioMérieux VIDAS HBe/Anti-HBe Assay
		Varicella zoster virus IgG antibody by	
		- Enzyme linked fluorescent assay (ELFA)	bioMérieux VIDAS Varicella-Zoster IgG Assay
		- Immunoassay (Enzyme-based label)	Serion ELISA classic Varicella Zoster Virus IgG Assay

Hospital Authority – Queen Elizabeth Hospital, Department of Pathology
醫院管理局–伊利沙伯醫院病理學部
Virology Laboratory: 12/F, Block M, Queen Elizabeth Hospital
病毒學實驗室：伊利沙伯醫院 M 座 12 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Virology – Serology (cont'd)** Serum (cont'd)	Measles IgG antibody by Enzyme linked fluorescent assay (ELFA)	bioMérieux VIDAS Measles IgG Assay
		Mumps IgG antibody by Enzyme linked fluorescent assay (ELFA)	bioMérieux VIDAS Mumps IgG Assay
		Toxoplasma IgM antibody by Enzyme linked fluorescent assay (ELFA)	bioMérieux VIDAS TOXO IgM Assay
		Rubella IgG antibody by Enzyme linked fluorescent assay (ELFA)	bioMérieux VIDAS RUB IgG II Assay
		Cytomegalovirus IgG antibody by Enzyme linked fluorescent assay (ELFA)	bioMérieux VIDAS CMV IgG Assay
		Treponema pallidum antibody by Immunoassay (Chemiluminescent label)	Abbott ARCHITECT *i*1000SR Syphilis TP Assay

Hospital Authority – Queen Elizabeth Hospital, Department of Pathology
醫院管理局–伊利沙伯醫院病理學部
Virology Laboratory: 12/F, Block M, Queen Elizabeth Hospital
病毒學實驗室：伊利沙伯醫院 M 座 12 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Molecular Genetics (microbiology)**		
	CSF	*Escherichia coli* K1, *Haemophilus influenza*, *Listeria monocytogenes*, *Neisseria Meningitides*, *Streptococcus agalactiae*, *Streptococcus pneumonia*, Cytomegalovirus, Enterovirus, Herpes simplex virus 1, Herpes Simplex virus 2, Human herpesvirus 6, Human parechovirus, *Varicella zoster* virus and *Cryptococcus neoformans/gattii*- detection by	
		Polymerase Chain Reaction, qualitative (Target region: proprietary)	FilmArray Meningitis / Encephalitis (ME) panel, Nucleic acid amplification and detection by BioFire FilmArray Multiplex PCR System
	Respiratory specimens	Influenza A virus, Influenza B virus and Respiratory syncytial virus – detection by	
		Real-time Polymerase Chain Reaction, qualitative (Target region: Influenza virus: M, PB2 and PA gene; Influenza B virus: M and NS gene; RSV: RSV A and RSV B nucleocapsid gene)	Cepheid Xpert Xpress Flu/RSV Assay, Nucleic acid amplification and detection by Cepheid GeneXpert System
		Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) – detection by	
		Real-time Polymerase Chain Reaction, qualitative (Target region: E gene and N gene)	Cepheid Xpert Xpress SARS-CoV-2 Assay, Nucleic acid amplification and detection by Cepheid GeneXpert System
		Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2), Influenza A virus, Influenza B virus and RSV – detection by	
		Real-time Polymerase Chain Reaction, qualitative (Target region: E gene and N gene and RdRP gene)	Cepheid Xpert Xpress SARS-CoV-2/Flu/RSV Plus Assay, Nucleic acid amplification and detection by Cepheid GeneXpert System

Hospital Authority – Queen Elizabeth Hospital, Department of Pathology
醫院管理局–伊利沙伯醫院病理學部
Virology Laboratory: 12/F, Block M, Queen Elizabeth Hospital
病毒學實驗室：伊利沙伯醫院 M 座 12 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Molecular Genetics (microbiology) (cont'd)** Respiratory specimens (cont'd)	Respiratory syncytial virus, Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2), Middle East Respiratory Syndrome Coronavirus (MERS-CoV), Influenza A virus, Influenza B virus, Coronavirus 229E, OC43, NL63 and HKU1, Parainfluenza virus type 1, 2, 3 and 4, Human metapneumovirus, Adenovirus, Enterovirus/Rhinovirus, *Bordetella pertussis*, *Bordetella parapertussis*, *Chlamydia pneumonia* and *Mycoplasma pneumonia* – detection by Polymerase Chain Reaction, qualitative (Target region: proprietary)	FilmArray Respiratory Panel 2.1 plus, Nucleic acid amplification and detection by BioFire FilmArray Multiplex PCR System

Hospital Authority – Queen Elizabeth Hospital, Department of Pathology
醫院管理局–伊利沙伯醫院病理學部
Haematology Laboratory: 7/F, Block M, Queen Elizabeth Hospital
血液學實驗室：伊利沙伯醫院 M 座 7 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology	**Coagulation** Citrate blood	Platelet Function Assay	PFA200 Method as documented in KCC/QEH/PAT/HS/PC/PFA
		Inhibitor screening test by mixing study	Werfen ACL TOP 750 CTS Method as documented in KCC/QEH/PAT/HS/PC/TOP and KCC/QEH/PAT/HS/PC/CO5
		Factor assay (II, V, VIII, IX, X, XI, XII) by optical detection	Werfen ACL TOP 750 CTS Method as documented in KCC/QEH/PAT/HS/PC/TOP and KCC/QEH/PAT/HS/PC/CO5
		Factor VIII/IX/V inhibitor assay by optical detection	Werfen ACL TOP 750 CTS Method as documented in KCC/QEH/PAT/HS/PC/TOP and KCC/QEH/PAT/HS/PC/CO5
		Protein C by chromogenic method	Werfen ACL TOP 750 CTS Method as documented in KCC/QEH/PAT/HS/PC/TOP and KCC/QEH/PAT/HS/PC/CO5
		Free Protein S by Immunoturbidimetric detection of aggregates	Werfen ACL TOP 750 CTS Method as documented in KCC/QEH/PAT/HS/PC/TOP and KCC/QEH/PAT/HS/PC/CO5
		Protein S by optical detection	Werfen ACL TOP 750 CTS Method as documented in KCC/QEH/PAT/HS/PC/TOP and KCC/QEH/PAT/HS/PC/CO5
		Antithrombin by chromogenic method	Werfen ACL TOP 750 CTS Method as documented in KCC/QEH/PAT/HS/PC/TOP and KCC/QEH/PAT/HS/PC/CO5
		Detection of Lupus Anticoagulant by Dilute Russell's Viper Venom Time and Silica clotting time	Werfen ACL TOP 750 CTS Method as documented in KCC/QEH/PAT/HS/PC/TOP and KCC/QEH/PAT/HS/PC/CO5

Hospital Authority – Queen Elizabeth Hospital, Department of Pathology
醫院管理局–伊利沙伯醫院病理學部
Haematology Laboratory: 7/F, Block M, Queen Elizabeth Hospital
血液學實驗室：伊利沙伯醫院 M 座 7 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology (cont'd)	**Coagulation (cont'd)** Citrate blood (cont'd)	Dabigatran by optical detection	Werfen ACL TOP 750 CTS HemosIL Direct Thrombin Inhibitor (DTI) assay Method as documented in KCC/QEH/PAT/HS/PC/CO5
		Rivaroxaban by Chromogenic method	Werfen ACL TOP 750 CTS HemosIL Liquid Anti-Xa assay Method as documented in KCC/QEH/PAT/HS/PC/CO5
		Apixaban by Chromogenic method	Werfen ACL TOP 750 CTS HemosIL Liquid Anti-Xa assay Method as documented in KCC/QEH/PAT/HS/PC/CO5
		Low molecular weight heparin by Chromogenic method	Werfen ACL TOP 750 CTS HemosIL Liquid Anti-Xa assay Method as documented in KCC/QEH/PAT/HS/PC/CO5

Hospital Authority – Queen Elizabeth Hospital, Department of Pathology
醫院管理局–伊利沙伯醫院病理學部
Haematology Laboratory: 7/F, Block M, Queen Elizabeth Hospital
血液學實驗室：伊利沙伯醫院 M 座 7 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology (cont'd)	**Haematology - Special**		
	EDTA blood	Measurement of Feto-Maternal Haemorrhage (FMH) in RhD negative pregnant women	Method as documented in KCC/QEH/PAT/HS/PC/FMH
		Haemoglobin A1c quantitation by High Performance Liquid Chromatography (HPLC)	D100 HPLC analyser Method as documented in KCC/QEH/PAT/HS/PC/SH11
		Haemoglobin A2 and F quantitation by High Performance Liquid Chromatography (HPLC)	BioRad Variant II HPLC analyser Method as documented in KCC/QEH/PAT/HS/PC/SH2
		Haemoglobin Electrophoresis	Electrophoresis Systems, Capillary Method as documented in KCC/QEH/PAT/HS/PC/SBA Electrophoresis Systems Hydrasys 2 Scan Focusing Method as documented in KCC/QEH/PAT/HS/PC/SH10
		Haemoglobin H inclusion bodies by New Methylene Blue Stain	Method as documented in KCC/QEH/PAT/HS/PC/SH6
		Alpha-thalassemia detection by IC strip	Method as documented in KCC/QEH/PAT/HS/PC/SH6
		Foetal haemoglobin in maternal circulation by Kleihauer test	Method as documented in KCC/QEH/PAT/HS/PC/SH3
	Semen	Semen analysis	Method as documented in KCC/QEH/PAT/HS/PC/SH3
	EDTA blood	Demonstration of microfilariae by Concentration method	Method as documented in KCC/QEH/PATH/HS/PC/SH3
		Glucose-6-phosphate dehydrogenase (G6PD) deficiency screening by Fluorescent Spot Test	Method as documented in KCC/QEH/PAT/HS/PC/SH3
		Demonstration of Heinz Bodies	Method as documented in KCC/QEH/PAT/HS/PC/SH3

Hospital Authority – Queen Elizabeth Hospital, Department of Pathology
醫院管理局–伊利沙伯醫院病理學部
Haematology Laboratory: 7/F, Block M, Queen Elizabeth Hospital
血液學實驗室：伊利沙伯醫院 M 座 7 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology (cont'd)	**Haematology - Special (cont'd)**		
	EDTA/Bone marrow aspirate	Cytochemical staining - Sudan Black B (SBB) - Myeloperoxidase (MPO) - Periodic acid-Schiff (PAS) - Chloroacetate Esterase (CAE) - Non-Specific Esterase (NSE) - Tartrate-resistant acid phosphatase stain (TRAP) - Dual Esterase (DEA) - Acid Phosphatase (AP) - Toluidine Blue Stain	Method as documented in KCC/QEH/PAT/HS/PC/SH4

Hospital Authority – Queen Elizabeth Hospital, Department of Pathology
醫院管理局–伊利沙伯醫院病理學部
Haematology Laboratory: 7/F, Block M, Queen Elizabeth Hospital
血液學實驗室：伊利沙伯醫院 M 座 7 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Immunology	**Autoantibodies** Serum	Antinuclear Antibody by Indirect immunofluorescence method	QUANTA-Lyser160 Method as documented in KCC/QEH/PAT/HS/PC/QL160 and KCC/QEH/PAT/HS/PC/ANA QUANTA-Lyser3000 Method as documented in KCC/QEH/PAT/HS/PC/QL3000 and KCC/QEH/PAT/HS/PC/ANA
		Anti-ds DNA Antibody by Enzyme-linked immunosorbent assay (ELISA)	QUANTA-Lyser160 Method as documented in KCC/QEH/PAT/HS/PC/QL160 and KCC/QEH/PAT/HS/PC/Anti-dsDNA QUANTA-Lyser3000 Method as documented in KCC/QEH/PAT/HS/PC/QL3000 and KCC/QEH/PAT/HS/PC/Anti-dsDNA
		Extractable nuclear antigens (ENA) Screening including Ro/SS-A (52 and 60kDa), La/SS-B, Sm, RNP/SM, Scl-70, and Jo-1 by Enzyme-linked immunosorbent assay (ELISA)	QUANTA-Lyser160 Method as documented in KCC/QEH/PAT/HS/PC/QL160 and KCC/QEH/PAT/HS/PC/ENA
		Extractable nuclear antigens (ENA)-6-Profile including Ro/SS-A (52 and 60kDa), La/SS-B, Sm, RNP/SM, Scl-70-, and Jo-1 by Enzyme-linked immunosorbent assay (ELISA)	QUANTA-Lyser160 Method as documented in KCC/QEH/PAT/HS/PC/QL160 and KCC/QEH/PAT/HS/PC/ENA
		Anti-Neutrophil Cytoplasmic Antibody by Indirect immunofluorescence method	QUANTA-Lyser160 Method as documented in KCC/QEH/PAT/HS/PC/QL160 and KCC/QEH/PAT/HS/PC/ANCA QUANTA-Lyser3000 Method as documented in KCC/QEH/PAT/HS/PC/QL3000 and KCC/QEH/PAT/HS/PC/ANCA

Hospital Authority – Queen Elizabeth Hospital, Department of Pathology
醫院管理局–伊利沙伯醫院病理學部
Haematology Laboratory: 7/F, Block M, Queen Elizabeth Hospital
血液學實驗室：伊利沙伯醫院 M 座 7 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Immunology (cont'd)	**Autoantibodies (cont'd)** Serum (cont'd)	Anti-Myeloperoxidase Antibody by Enzyme-linked immunosorbent assay (ELISA)	QUANTA-Lyser160 Method as documented in KCC/QEH/PAT/HS/PC/QL160 and KCC/QEH/PAT/HS/PC/MPO QUANTA-Lyser3000 Method as documented in KCC/QEH/PAT/HS/PC/QL3000 and KCC/QEH/PAT/HS/PC/MPO
		Thyroglobulin autoantibodies by Enzyme-linked immunosorbent assay (ELISA)	QUANTA-Lyser160 Method as documented in KCC/QEH/PAT/HS/PC/QL160 and KCC/QEH/PAT/HS/PC/ATGELISA QUANTA-Lyser3000 Method as documented in KCC/QEH/PAT/HS/PC/QL3000 and KCC/QEH/PAT/HS/PC/ATGELISA
		Thyroid peroxidase autoantibodies by Enzyme-linked immunosorbent assay (ELISA)	QUANTA-Lyser160 Method as documented in KCC/QEH/PAT/HS/PC/QL160 and KCC/QEH/PAT/HS/PC/TPOELISA QUANTA-Lyser3000 Method as documented in KCC/QEH/PAT/HS/PC/QL3000 and KCC/QEH/PAT/HS/PC/TPOELISA
		Anti-Mitochondrial / Anti-Smooth Muscle / Anti-Gastric Parietal Cell Antibodies by Indirect immunofluorescence method	Mosaic Kidney (Rat) / Stomach (Rat) substrate Method as documented in KCC/QEH/PAT/HS/PC/AMA
		Anti-Cardiolipin Antibodies (IgG) by Enzyme-linked immunosorbent assay (ELISA)	QUANTA-Lyser160 Method as documented in KCC/QEH/PAT/HS/PC/QL160 and KCC/QEH/PAT/HS/PC/ACL
		Semi-quantitative detection of IgG Autoantibodies to serine protease (PR-3) by Enzyme-linked immunosorbent assay (ELISA)	QUANTA-Lyser160 Method as documented in KCC/QEH/PAT/HS/PC/QL160 and KCC/QEH/PAT/HS/PC/PR3 QUANTA-Lyser3000 Method as documented in KCC/QEH/PAT/HS/PC/QL3000 and KCC/QEH/PAT/HS/PC/PR3

Hospital Authority – Queen Elizabeth Hospital, Department of Pathology
醫院管理局–伊利沙伯醫院病理學部
Haematology Laboratory: 7/F, Block M, Queen Elizabeth Hospital
血液學實驗室：伊利沙伯醫院 M 座 7 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Immunology (cont'd)	**Autoantibodies (cont'd)**		
	Serum (cont'd)	Rheumatoid Factor by Latex agglutination	Method as documented in KCC/QEH/PAT/HS/PC/RAF
		Infectious mononucleosis heterophile Antibody by Latex agglutination	Method as documented in KCC/QEH/PAT/HS/PC/MONO
	EDTA blood	Investigation of haemolysis - Hereditary Spherocytosis	Method as documented in KCC/QEH/PAT/HS/PC/FWH
		Paroxysmal nocturnal haemoglobinuria (PNH) screening	Method as documented in KCC/QEH/PAT/HS/PC/FWH
	Immune cell function and enumeration		
	EDTA blood	Complete Lymphocyte Subsets Profile for immunological disorder by Flow Cytometry	AQUIOS Method as documented in KCC/QEH/PAT/HS/PC/AQ
		T cell subsets (CD4 count and CD8 count) for immunological disorder by Flow Cytometry	AQUIOS Method as documented in KCC/QEH/PAT/HS/PC/AQ
		Immunophenotyping for haematological disorder by Flow Cytometry	Beckman Coulter Navios flow cytometer Method as documented in KCC/QEH/PAT/HS/PC/NAV and KCC/QEH/PAT/HS/PC/FLD

Hospital Authority – Queen Elizabeth Hospital, Department of Pathology
醫院管理局–伊利沙伯醫院病理學部
Haematology Laboratory: 7/F, Block M, Queen Elizabeth Hospital
血液學實驗室：伊利沙伯醫院 M 座 7 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics	**Cytogenomics** EDTA blood, bone marrow	Detection of chromosomal abnormalities by Fluorescence in-situ hybridization (FISH)	Method as documented in KCC/QEH/PAT/HS/PC/FSH and KCC/QEH/PAT/HS/PC/KYN
		Culture and chromosome analysis by G-banding	Method as documented in KCC/QEH/PAT/HS/WI/CY1, KCC/QEH/PAT/HS/PC/CUL and KCC/QEH/PAT/HS/PC/STN

Hospital Authority – Queen Elizabeth Hospital, Department of Pathology
醫院管理局–伊利沙伯醫院病理學部
Molecular Pathology Laboratory: 7/F, Block M, Queen Elizabeth Hospital
分子病理學實驗室：伊利沙伯醫院 M 座 7 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics	**Molecular Genetics (anatomical pathology)** Histological and cytological specimens	Epidermal Growth Factor Receptor (EGFR) Exons 18, 19, 20 and 21 mutations by Real-time Polymerase Chain Reaction	Nucleic acid extraction, amplification and detection by therascreen® EGFR RGQ PCR Kit as documented in MP-PC-EGF
		KRAS and NRAS genes Exon 2, 3 and 4 mutations by Real-time Polymerase Chain Reaction	Nucleic acid extraction, amplification and mutations detection By Idylla KRAS mutation kit, NRAS-BRAF mutation kit on Biocartis Idylla system as documented in MP-PC-IDY
		T cell receptor beta chain and gamma chain gene rearrangement by Fragment Analysis (Target region: T-cell receptor-γ and T-cell receptor-β locus)	Nucleic acid extraction, amplification and detection by InvivoScribe IdentiClone TCR Gene Clonality Assay Kit as documented in MP-PC-TCR
		Immunoglobulin heavy chain gene rearrangement by Fragment Analysis	Nucleic acid extraction, amplification and detection by InvivoScribe IdentiClone IgH Gene Clonality Assay Kit as documented in MP-PC-IGH
		Microsatellite Instability by PCR and Fragment Analysis	Nucleic acid extraction, amplification and detection by Promega MSI analysis system as documented in MP-PC-MSI
		Specimen Identity by Microsatellite PCR and Fragment Analysis	Nucleic acid extraction, amplification and detection by GenePrint 24 system as documented in MP-PC-MSGP24

Hospital Authority – Queen Elizabeth Hospital, Department of Pathology
醫院管理局–伊利沙伯醫院病理學部
Molecular Pathology Laboratory: 7/F, Block M, Queen Elizabeth Hospital
分子病理學實驗室：伊利沙伯醫院 M 座 7 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics (cont'd)	**Molecular Genetics (anatomical pathology) (cont'd)**		
	Histological and cytological specimens (cont'd)	C250T and C228T mutations in TERT gene promoter region by	
		Allelic-specific Real-time Polymerase Chain Reaction	Nucleic acid extraction, amplification and detection as documented in MP-PC-TERT
		IDH mutation by	
		Real-time Polymerase Chain Reaction	Nucleic acid extraction, amplification and detection by Qiagen IDH1/2 RGQ PCR kit as documented in MP-PC-IDHQ
	EDTA blood	Epidermal Growth Factor Receptor (EGFR) Exons 18, 19, 20 and 21 mutations by	
		Real-time Polymerase Chain Reaction	Nucleic acid extraction, amplification and detection by Roche Cobas Z480 using Cobas® EGFR Mutation Test as documented in MP-PC-EGFP
		Epidermal Growth Factor Receptor (EGFR) mutations by	
		Droplet Digital Polymerase Chain Reaction (Target region: EGFR L858R, Exon 19 deletion and T790M)	Nucleic acid extraction, amplification and detection by cfDNA Sample Preparation Kit (Roche) and QX200 droplet digital PCR using Biorad ddPCR EGFR mutation assay as documented in MP-PC-790P
	Molecular Genetics (microbiology)		
	Respiratory specimens	Detection of Mycobacterium tuberculosis complex and non-tuberculosis mycobacteria by	
		Polymerase Chain Reaction	Nucleic acid extraction, amplification and detection using Quantstudio 7 Flex Real time PCR system as documented in MP-PC-MTB
	Molecular Genetics (haematology)		
	EDTA whole blood or marrow aspirate	JAK2 V617F mutation by	
		Allele-specific Real-time Polymerase Chain Reaction	Nucleic acid extraction, amplification and detection as documented in MP-PC-JAK

Hospital Authority – Queen Elizabeth Hospital, Department of Pathology
醫院管理局–伊利沙伯醫院病理學部
Molecular Pathology Laboratory: 7/F, Block M, Queen Elizabeth Hospital
分子病理學實驗室：伊利沙伯醫院 M 座 7 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics (cont'd)	**Molecular Genetics (haematology) (cont'd)** EDTA whole blood or marrow aspirate (cont'd)	Alpha Globin Genotyping for α thalassemia gene deletion by GAP Polymerase Chain Reaction	Nucleic acid extraction, amplification and detection as documented in MP-PC-THA
		BCR/ABL1 t(9;22) translocation - P210 BCR/ABL1 transcript - P190 BCR/ABL1 transcript by Real-time quantitative reverse Transcription – Polymerase Chain Reaction, qualitative	Nucleic acid extraction, amplification and detection by QIAGEN Ipsogen BCR-ABL1 Mber IS-MMR DX kit as documented in MP-PC-CMQ
		BCR/ABL1 t(9;22) translocation by Reverse transcription – Polymerase Chain Reaction, qualitative	Nucleic acid extraction, amplification and detection as documented in MP-PC-CML
		PML/RARA t(15;17) translocation by Real-time reverse transcription - Polymerase Chan Reaction, qualitative	Nucleic acid extraction, amplification and detection as documented in MP-PC-PMLR
		RUNX1-RUNZ1T1 fusion transcripts by Real-time reverse transcription - Polymerase Chan Reaction, qualitative	Nucleic acid extraction, amplification and detection as documented in MP-PC-RUNX
		CBFB-MYH11 fusion transcripts by Real-time reverse transcription - Polymerase Chan Reaction, qualitative	Nucleic acid extraction, amplification and detection as documented in MP-PC-CBFQ
		Acute Lymphoblastic Leukemia (ALL) fusion gene transcripts ETV6-RUNX1, TCF3-PBX1, KMT2A-AFF1, SIL-TAL1 by Real-time reverse transcription - Polymerase Chan Reaction, qualitative	Nucleic acid extraction, amplification and detection as documented in MP-PC-ALLQ

Hospital Authority – Queen Elizabeth Hospital, Department of Pathology
醫院管理局–伊利沙伯醫院病理學部
Molecular Pathology Laboratory: 7/F, Block M, Queen Elizabeth Hospital
分子病理學實驗室：伊利沙伯醫院 M 座 7 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics (cont'd)	**Molecular Genetics (haematology) (cont'd)** EDTA whole blood or marrow aspirate (cont'd)	Monitoring Measurable Residual Disease (MRD) by Real time quantitative Reverse transcription Polymerase Chain Reaction (Target region: BCR::ABL1 ela2 transcript, RUNX1::RUNX1T1, CBFB-MYH11 type A fusion transcript, NPM1 type A mutation)	Nucleic acid extraction, amplification and detection by Ipsogen BCR-ABL1 mber kit CE, Ipsogen CBFB-MYH11A kit Ipsogen FusionQuant RUNX1-RUNX1T1 kit, Ipsogen NPM1 mutA MutaQuant Kit as documented in MP-PC-MRDE, MP-PC-MRDC, MP-PC-RMRD, MP-PC-MRDN
		FLT3 exon 14 duplication and insertion, exon 20 mutation by Polymerase Chain Reaction and Sanger sequencing	Nucleic acid extraction, amplification and detection by Applied Biosystems Genetic Analyser 3500 Method as documented in MP-PC-FLT and MP-PC-FA1
		NPM1 exon 11 duplication and insertion mutation by Polymerase China Reaction and Sanger sequencing	Nucleic acid extraction, amplification and detection by Applied Biosystems Genetic Analyser 3500 Method as documented in MP-PC-NPM and MP-PC-FA1

Hospital Authority – Queen Elizabeth Hospital, Department of Pathology
醫院管理局–伊利沙伯醫院病理學部
Department of Pathology in Kowloon Hospital: 2/F, Main Building, Kowloon Hospital, 147A Argyle Street, Kowloon
九龍醫院病理學部：九龍亞皆老街 147A 九龍醫院主座 2 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection	**Microbiology - Miscellaneous tests**		
	Stool	*Clostridioides difficile* glutamate dehydrogenase (GDH) detection by Immunoassay (Enzyme-based label)	TECHLAB C. DIFF CHEK – 60 ELISA assay
	Mycobacteriology - Culture		
	Blood, CSF, respiratory tract samples, miscellaneous samples, urine, etc.	Culture for acid fast bacilli (AFB) by - Conventional Method - Automated culture method	Method as documented in KCC/QEH/PAT/MM/PC/TBC BD BACTEC MGIT 960 System and BD BACTEC FX40 system
	Culture isolates from solid and liquid culture media	*Mycobacterium tuberculosis* complex Specific MPB64 antigen detection by Immunochromatographic assay	Capilia TB-Neo antigen test kit
	Mycobacteriology - Microscopy		
	Blood, CSF, respiratory tract samples, miscellaneous samples, urine, etc.	Microscopy for acid fast bacilli (AFB) by - Auramine O fluorescent stain - Ziehl-Neelsen stain	Method as documented in KCC/QEH/PAT/MM/PC/TBC
	Virology – Serology		
	Blood	Interferon-Gamma Releasing Assay by Immunoassay (Enzyme-based label)	QuantiFERON-TB Gold Plus (QFT Plus) kit using DYNEX DS2 automated ELISA processor Method as documented in KCC/QEH/PAT/MM/PC/IGR

Hospital Authority – Queen Elizabeth Hospital, Department of Pathology
醫院管理局–伊利沙伯醫院病理學部
Department of Pathology in Kowloon Hospital: 2/F, Main Building, Kowloon Hospital, 147A Argyle Street, Kowloon
九龍醫院病理學部：九龍亞皆老街 147A 九龍醫院主座 2 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics	**Molecular Genetics (microbiology)**		
	Respiratory specimens	*Legionella pneumophila* – detection of target DNA by	
		Real-time Polymerase Chain Reaction, qualitative (Target region: MIP gene)	Manual nucleic acid extraction and real-time amplification as documented in KCC/QEH/PAT/MM/PC/MOL, using LightMix® Kit Legionella pneumophila (MIP), Roche LightCycler 480 II system
		Mycoplasma pneumonia – detection of target DNA by	
		Real-time Polymerase Chain Reaction, qualitative (Target region: P1 gene)	Manual nucleic acid extraction and real-time amplification as documented in KCC/QEH/PAT/MM/PC/MOL, using LightMix® Kit Mycoplasma pneumonia EC, Roche LightCycler 480 II system
		Mycobacterium tuberculosis and rifampin resistance – detection by	
		Real-time Polymerase Chain Reaction, qualitative (Target region: rpoB gene, IS1081, IS6110)	Cepheid Xpert MTB/RIF Ultra Assay Nucleic acid amplification and detection by Cepheid GeneXpert System
	Nasal swab	Methicillin Resistant *Staphylococcus aureus* - detection by	
		Real-time Polymerase Chain Reaction, qualitative (Target region: mecA, mecC & SCCmec)	Cepheid Xpert MRSA NxG Assay Nucleic acid amplification and detection by Cepheid GeneXpert System Method as documented in KCC/QEH/PAT/MM/PC/BGX
	Stool	*Clostridium difficile* – detection by	
		Real-time Polymerase Chain Reaction, qualitative (Target region: genes for Toxin B tcdB, Binary Toxin (cdt), and tcdC deletion nt 117 (tcdCΔ117))	Cepheid Xpert C. difficile Assay Nucleic acid amplification and detection by Cepheid GeneXpert System Method as documented in KCC/QEH/PAT/MM/PC/BGX

Hospital Authority – Queen Elizabeth Hospital, Department of Pathology
醫院管理局–伊利沙伯醫院病理學部
Department of Pathology in Kowloon Hospital: 2/F, Main Building, Kowloon Hospital, 147A Argyle Street, Kowloon
九龍醫院病理學部：九龍亞皆老街 147A 九龍醫院主座 2 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics (cont'd)	**Molecular Genetics (microbiology) (cont'd)** Plasma	Hepatitis B virus – detection by Real-time polymerase chain reaction, quantitative (Target region: pre-core and core region)	cobas HBV Test by cobas 4800 System Nucleic acid extraction by cobas x 480 Nucleic acid amplification and detection by cobas z 480
		Hepatitis C virus – detection by Real-time polymerase chain reaction, quantitative (Target region: 5' NTR)	cobas HCV Test by cobas 4800 System Nucleic acid extraction by cobas x 480 Nucleic acid amplification and detection by cobas z 480
		Hepatitis C virus – genotyping by Real-time polymerase chain reaction, quantitative (Target region: 5' UTR, Core and NS5B gene)	cobas HCV GT Test by cobas 4800 System Nucleic acid extraction by cobas x 480 Nucleic acid amplification and detection by cobas z 480
		Human immunodeficiency virus – detection by Real-time reverse transcription polymerase chain reaction, quantitative (Target region: gag and LTR regions of HIV 1)	cobas HIV Test by cobas 4800 System Nucleic acid extraction by cobas x 480 Nucleic acid amplification and detection by cobas z 480
		Human immunodeficiency virus 1 (HIV-1) Genotypic Drug Resistance Testing by Sanger sequencing-based platform (Target regions: Regions under HIV-1 pop gene :- - Proteinase codons 1-99 and - Reverse transcriptase codons 1-305[#] - Integrase codons 30 – 266[#])	Sample extraction by automated nucleic acid extraction platform: QIAxtractor as documented in KCC/QEH/PAT/MM/PA/QIX Sample processing, reverse transcription PCR, nested PCR, Sanger sequencing using ABI 3500 Genetic Analyser and result interpretation as documented in KCC/QEH/PAT/MM/PC/IHGRT Post-PCR processes including gel electrophoresis and PCR Product cleaning as documented in KCC/QEH/PAT/MM/PC/PPS

Hospital Authority – Queen Elizabeth Hospital, Department of Pathology
醫院管理局–伊利沙伯醫院病理學部
Department of Pathology in Kowloon Hospital: 2/F, Main Building, Kowloon Hospital, 147A Argyle Street, Kowloon
九龍醫院病理學部：九龍亞皆老街 147A 九龍醫院主座 2 樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics (cont'd)	**Molecular Genetics (microbiology) (cont'd)** Urethral swab, oral swab, rectal swab, endocervical swab	*Chlamydia trachomatis* and *Neisseria gonorrhoeae* – detection by combination of target capture, transcription mediated amplification and dual kinetic assay, quantitative (Target regions: 23S rRNA of *Chlamydia trachomatis* and 16S rRNA of *Neisseria gonorrhoeae*)	Hologic Aptima Combo 2 for detection of rRNA from *Chlamydia trachomatis* and *Neisseria gonorrhoeae* on Panther system

In Touch, Limited – Histopathology Laboratory

ADDRESS **地址**	:	Room 206-7, 2/F, Kowloon Centre, 33 Ashley Road, Tsim Sha Tsui, Kowloon, Hong Kong 香港九龍尖沙咀亞士厘道 33 號九龍中心 2 樓 206-7 室
ENQUIRY **查詢**	:	Dr NG Wai-kuen 吳偉權醫生
TELEPHONE **電話**	:	2523 1156
FAX **傳真**	:	3996 8445
E-MAIL **電郵**	:	ngwk@yahoo.com
WEBSITE ADDRESS **網址**	:	N.A.
CLIENTELE **服務對象**	:	Public and private hospitals, day centres and clinics 公營及私營醫院,日間醫療中心和診所

In Touch, Limited – Histopathology Laboratory

ADDRESS **地址**	:	Room 206-7, 2/F, Kowloon Centre, 33 Ashley Road, Tsim Sha Tsui, Kowloon, Hong Kong 香港九龍尖沙咀亞士厘道 33 號九龍中心 2 樓 206-7 室
LABORATORY DIRECTOR **化驗所主管**	:	**Pathologist Director 病理學主管:** Dr NG Wai-kuen 吳偉權醫生 MBBS(HK), FRCPA, FHKCPath, FHKAM(Pathology)
PATHOLOGIST IN CHARGE OF THE ACCREDITED DISCIPLINE **負責認可範疇的病理學專科醫生**	:	Anatomical Pathology 解剖病理學 Dr NG Wai-kuen 吳偉權醫生 (Full-time 全職)
ACCREDITED TEST CATEGORY **認可測試類別**	:	**Medical Testing 醫務化驗** Anatomical Pathology 解剖病理學 Medical Genetics (Molecular Genetics) 醫學遺傳學 (分子遺傳學)

In Touch, Limited – Histopathology Laboratory

Room 206-7, 2/F, Kowloon Centre, 33 Ashley Road, Tsim Sha Tsui, Kowloon, Hong Kong
香港九龍尖沙咀亞士厘道33號九龍中心2樓206-7室

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology	**Cytopathology**		
	Gynaecological specimen	Gynaecological cytology examination by Papanicolaou staining	Specimen preparation and routine staining by BD Totalys system as documented in COP-02-6
	Non-gynaecological specimen	Non-gynaecological cytology examination by H&E and Papanicolaou staining	Specimen preparation and routine staining by manual method as documented in COP-02-1, 2
	Fine needle aspiration	Fine needle aspiration cytology examination by H&E and Papanicolaou staining	Specimen preparation and routine staining by manual method as documented in COP-03
	Histopathology		
	Surgical pathology	Histology examination by H&E staining Special staining	H&E by manual method as documented in HOP-06-4.4 Special staining by manual method as documented in HOP-06-4.1, 4.2, 4.3 Amyloid deposits by Highman's Congo Red, Glycogen and other periodate-reactive carbohydrates by Periodic Acid-Schiff (PAS) Tubercle bacilli (acid-fast bacilli) by Ziehl-Neelsen
	Intra-operative frozen section for fresh tissue specimens and biopsies	Histology examination by H&E staining	Frozen section handling as documented in HOP 07-4.1, 4.2 H&E staining by manual method as documented in HOP-07-4.3

In Touch, Limited – Histopathology Laboratory

Room 206-7, 2/F, Kowloon Centre, 33 Ashley Road, Tsim Sha Tsui, Kowloon, Hong Kong
香港九龍尖沙咀亞士厘道33號九龍中心2樓206-7室

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics	**Molecular Genetics (anatomical pathology)** Gynaecological specimen	High Risk Human Papilloma virus (HPV) genotyping detection by Real-Time Polymerase Chain Reaction, qualitative (Target region: E6 / E7 gene)	Nucleic acid extraction, amplification and detection by DB Viper System using BD Onclarity HPV assay Method as documented in VOP-02

Codex Genetics Limited
科德施基因有限公司

ADDRESS **地址**	:	Unit 212, 2/F, Building 16W, No. 16 Science Park West Avenue, Hong Kong Science Park, Shatin, New Territories, Hong Kong 香港新界沙田香港科學園科技大道西 16 號 16W 212 室
ENQUIRY **查詢**	:	Ms LEE Ho Ching 李可晴女士
TELEPHONE **電話**	:	3008 2560
FAX **傳真**	:	2381 8688
E-MAIL **電郵**	:	support@codexgenetics.com
WEBSITE ADDRESS **網址**	:	https://www.codexgenetics.com/
CLIENTELE **服務對象**	:	Private physicians, medical centres, private and public hospitals and other medically related institutions 私家醫生，醫療中心，私營及公營醫院和醫療有關的機構

Codex Genetics Limited
科德施基因有限公司

ADDRESS **地址**	:	Unit 212, 2/F, Building 16W, No. 16 Science Park West Avenue, Hong Kong Science Park, Shatin, New Territories, Hong Kong 香港新界沙田香港科學園科技大道西 16 號 16W 212 室
LABORATORY DIRECTOR **化驗所主管**	:	**Biomedical Scientist Director 醫務科學主管:** Dr Kan Chau Ming 簡秋鳴博士 DHSc, MSc, BSc, Reg Part I MLT
PATHOLOGIST IN CHARGE OF THE ACCREDITED DISCIPLINE **負責認可範疇的病理學專科醫生**	:	Nil
ACCREDITED TEST CATEGORY **認可測試類別**	:	**Medical Testing 醫務化驗** Medical Genetics (Molecular Genetics) 醫學遺傳學 (分子遺傳學)

Codex Genetics Limited
科德施基因有限公司
Unit 212, 2/F, Building 16W, No. 16 Science Park West Avenue, Hong Kong Science Park, Shatin, New Territories, Hong Kong
香港新界沙田香港科學園科技大道西 16 號 16W 212 室

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Medical Genetics	**Molecular Genetics (microbiology)** Deep throat saliva, nasopharyngeal swab, nasal swab, throat swab	Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) – detection by Real-Time Reverse Transcription Polymerase Chain Reaction, qualitative (Target region: N and ORF1ab genes)	Nucleic acid extraction, amplification and detection as documented in CDX-SOP-004 using DaAn Gene Co. Ltd Detection kit for 2019 Novel Coronavirus (2019-n-CoV) RNA (PCR-Fluorescence Probing), Thermofisher Scientific 7500 Real-Time PCR System

Bright Growth Medical Laboratory Limited
高怡醫學化驗所有限公司

ADDRESS **地址**	:	Room 1007, 10/F, Champion Building, 301-309 Nathan Road, Yau Ma Tei, Kowloon, Hong Kong 香港九龍油麻地彌敦道 301-309 號嘉賓商業大廈 10 樓 07 室
ENQUIRY **查詢**	:	Ms LI Harriet 李翠嬋女士
TELEPHONE **電話**	:	2781 2681
FAX **傳真**	:	2781 2685
E-MAIL **電郵**	:	brightgrowth@gmail.com
WEBSITE ADDRESS **網址**	:	N/A
CLIENTELE **服務對象**	:	Private physicians, medical centres, private and public hospitals and other medically related institutions 私家醫生，醫療中心，私營及公營醫院和醫療有關的機構

Bright Growth Medical Laboratory Limited
高怡醫學化驗所有限公司

ADDRESS **地址**	:	Room 1007, 10/F, Champion Building, 301-309 Nathan Road, Yau Ma Tei, Kowloon, Hong Kong 香港九龍油麻地彌敦道 301-309 號嘉賓商業大廈 10 樓 07 室
LABORATORY DIRECTOR **化驗所主管**	:	**Biomedical Scientist Director 醫務科學主管:** Mr LI Wai Chun 李偉振先生 MSc, BSc, Reg. MLT 1
ACCREDITED TEST CATEGORY **認可測試類別**	:	**Medical Testing 醫務化驗** Medical Genetics (Molecular Genetics) 醫學遺傳學 (分子遺傳學)

Bright Growth Medical Laboratory Limited
高怡醫學化驗所有限公司
Room 1007, 10/F, Champion Building, 301-309 Nathan Road, Yau Ma Tei, Kowloon, Hong Kong
香港九龍油麻地彌敦道 301-309 號嘉賓商業大廈 10 樓 07 室

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Medical Genetics	**Molecular Genetics (microbiology)** Nasopharyngeal swab, nasal swab and throat swab	Detection of Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2), qualitative by Real-Time Reverse Transcription Polymerase Chain Reaction (Target region: E , N2 and RdRP genes)	Cepheid GeneXpert System Xpert Xpress SARS-CoV-2 PLUS assay Method as documented in Technical Manual

Hospital Authority – Hong Kong Children's Hospital, Department of Pathology
醫院管理局-香港兒童醫院病理學部

ADDRESS : 6/F, Tower A, Hong Kong Children's Hospital, 1 Shing Cheong Road, Kowloon Bay, Kowloon, Hong Kong
地址 香港九龍九龍灣承昌道一號香港兒童醫院 A 座 6 樓

ENQUIRY : Ms Ella LEUNG Wai-yee
查詢 梁惠兒女士

TELEPHONE : 3513 3135
電話

FAX : 3512 7518
傳真

E-MAIL : lwy473a@ha.org.hk
電郵

WEBSITE ADDRESS : https://www31.ha.org.hk/hkch/Patients/Services/Pathology
網址

CLIENTELE : Public and private hospitals
服務對象 公營及私營醫院

Hospital Authority – Hong Kong Children's Hospital, Department of Pathology
醫院管理局-香港兒童醫院病理學部

ADDRESS
地址
: 6/F, Tower A, Hong Kong Children's Hospital, 1 Shing Cheong Road, Kowloon Bay, Kowloon, Hong Kong
香港九龍九龍灣承昌道一號香港兒童醫院A座6樓

(i) Division of Anatomical Pathology, 6/F, Tower A
(ii) Division of Chemical Pathology, 7/F, Tower A
(iii) Division of Clinical Microbiology and Infection, 6/F and 7/F, Tower A
(iv) Division of Haematology, 7/F, Tower A
(v) Division of Genetic and Genomic Pathology, 6/F, Tower A
(vi) Newborn Screening Laboratory, G/F and 7/F, Tower A

LABORATORY DIRECTOR
化驗所主管
: **Pathologist Director 病理學主管:**
Dr Jason SO Chi-chiu
蘇志釗醫生
BSc (HK), MBBS (HK), FHKCPath, FHKAM (Pathology), FRCPath

PATHOLOGIST IN CHARGE OF THE ACCREDITED DISCIPLINE
負責認可範疇的病理學專科醫生
: Anatomical Pathology 解剖病理學
Dr KAN Nim-chi 簡念慈醫生 (Full-time 全職)

Chemical Pathology 化學病理學
Dr MAK Miu 麥苗醫生 (Full-time 全職)

Clinical Microbiology and Infection 臨床微生物學及傳染病
Dr Sally WONG Cheuk-ying 黃卓凝醫生 (Full-time 全職)

Haematology 血液學
Dr Jason SO Chi-chiu 蘇志釗醫生 (Full-time 全職)

Immunology 免疫學
Dr MAK Miu 麥苗醫生 (Full-time 全職)

Medical Genetics (Molecular Genetics) 醫學遺傳學 (分子遺傳學)
Dr Timothy CHENG Hua-tse 鄭華哲醫生 (Full-time 全職)

ACCREDITED TEST CATEGORY
認可測試類別
: **Medical Testing 醫務化驗**
Anatomical Pathology
解剖病理學
Chemical Pathology
化學病理學
Clinical Microbiology and Infection
臨床微生物學及傳染病
Haematology
血液學
Immunology
免疫學
Medical Genetics (Cytogenomics and Molecular Genetics)
醫學遺傳學 (細胞遺傳學 及 分子遺傳學)

Hospital Authority – Hong Kong Children's Hospital, Department of Pathology
醫院管理局–香港兒童醫院病理學部
Division of Anatomical Pathology: 6/F, Tower A, Hong Kong Children's Hospital, 1 Shing Cheong Rd, Kowloon Bay, Kln, HK
香港九龍九龍灣承昌道一號香港兒童醫院 A 座六樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology	**Histopathology**		
	Surgical pathology	Histology examination by H&E and special staining	Specimen preparation as documented in WI-ANP-HIS-ALLEB, WI-ANP-HIS-ATCUT & WI-ANP-SBX-HANDL H&E Staining Special staining (automated method) Leica – Tissue Stainer ST5020 Special staining (manual method) Method as documented in WI-ANP-HIS-STAN Acid fast bacilli by Ziehl-Neelsen Acidic mucins by Alcian Blue (pH 0.5 and pH 2.5) Amyloid by Highmans Congo Red Basement membrane by Periodic Acid Silver Methenamine (PASM) Collagen and muscle by Masson Trichrome Elastic fibre and connective tissue by Victoria Blue Van Gieson Fibrin by Martius yellow-Brilliant Crystal Scarlet-S-soluble blue Fungi by Grocott hexamine silver Glycol groups by Periodic Acid Schiff (PAS) Gram positive and negative bacteria by Gram technique Haemosiderin by Perls' Prussian Blue Hepatitis B antigens by Shikata's Orcein technique Histological architecture by Haematoxylin & Eosin Lipids by Oil Red O stain Mucin by Southgate's mucicarmine Normal myelin by Luxol Fast Blue Nemaline rods by Gomori trichrome technique (modified) Periodate reactive carbohydrates by PAS with alpha-amylase digestion (PASD) Reticulin by Gordon & Sweet's technique Calcium salts by von Kossa
	Intra-operative frozen section for fresh tissue specimens and biopsies	Histology examination by H&E and Giemsa staining	Specimen preparation as documented in WI-ANP-SBX-FROZN H&E and Giemsa staining (manual)

Hospital Authority – Hong Kong Children's Hospital, Department of Pathology
醫院管理局–香港兒童醫院病理學部
Division of Anatomical Pathology: 6/F, Tower A, Hong Kong Children's Hospital, 1 Shing Cheong Rd, Kowloon Bay, Kln, HK
香港九龍九龍灣承昌道一號香港兒童醫院 A 座六樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology (cont'd)	**Histopathology (cont'd)**		
	Fresh specimens and biopsies and special specimens	Histology examination and enzyme histochemistry by Special staining (manual) and Enzyme histochemistry tests	Method as documented in WI-ANP-SBX-ENZYM ATPase 4.2, ATPase 4.6, ATPase 9.4 Succinic dehydrogenase (SDH) NADH-Tetrazolium Reductase Cytochrome C oxidase (COX) COX + SDH Acetylcholine esterase
	Histological specimens and cell blocks from cytological specimens	Immunohistochemical examination for various antigen markers by Automated staining method	Slide preparation and staining (Leica Bond III & Ventana BenchMark Ultra Autostainer) Method as documented in WI-ANP-IHC-BOND and WI-ANP-IHC-VENTA Detection system: Bond III: Polymer detection system Ventana: Optiview detection system
	Renal and skin biopsies	Immunofluorescence examination by Automated method	Specimen preparation and staining by Direct Immunofluorescence (automated): IgA / IgM / IgG / C1q / Complement 3 / Fibrinogen Method as documented in WI-ANP-SBX-IMF

Hospital Authority – Hong Kong Children's Hospital, Department of Pathology
醫院管理局–香港兒童醫院病理學部
Division of Chemical Pathology: 7/F, Tower A, Hong Kong Children's Hospital, 1 Shing Cheong Rd, Kowloon Bay, Kln, HK
香港九龍九龍灣承昌道一號香港兒童醫院 A 座七樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology	**Blood gases and co-oximetry**		
	Heparinised blood	Blood Gas include:	
		pH by Potentiometry (Ion Selective Electrode)	Siemens RapidLab 1265 Blood Gas Analyser
		pCO_2 by Potentiometry (Ion Selective Electrode)	Siemens RapidLab 1265 Blood Gas Analyser
		pO_2 by Amperometry (Ion Selective Electrode)	Siemens RapidLab 1265 Blood Gas Analyser
		Ionized Calcium by Potentiometry (Ion Selective Electrode)	Siemens RapidLab 1265 Blood Gas Analyser
		Carboxyhaemoglobin by Co-oximetry	Siemens RapidLab 1265 Blood Gas Analyser
		Methaemoglobin by Co-oximetry	Siemens RapidLab 1265 Blood Gas Analyser

Hospital Authority – Hong Kong Children's Hospital, Department of Pathology
醫院管理局–香港兒童醫院病理學部
Division of Chemical Pathology: 7/F, Tower A, Hong Kong Children's Hospital, 1 Shing Cheong Rd, Kowloon Bay, Kln, HK
香港九龍九龍灣承昌道一號香港兒童醫院 A 座七樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**General Chemistry** Plasma	Alanine aminotransferase (ALT) by Spectrophotometry	Roche cobas 8000 system, ALTPM assay
		Albumin by Spectrophotometry	Roche cobas 8000 system, ALBP assay
		Alkaline phosphatases (ALP) by Spectrophotometry	Roche cobas 8000 system, ALP2 assay
		Ammonia by Spectrophotometry	Roche cobas 8000 system, NH3L2 assay
		Amylase by Spectrophotometry	Roche cobas 8000 system, AMYL2 assay
		Aspartate aminotransferases (AST) by Spectrophotometry	Roche cobas 8000 system, ASTPM assay
		Bilirubin, Conjugated (Bc) by Spectrophotometry	VITROS XT 7600 Integrated Chemistry, BuBc Slide dual wavelength, dry chemistry
		Bilirubin, Unconjugated (Bu) by Spectrophotometry	VITROS XT 7600 Integrated Chemistry, BuBc Slide dual wavelength, dry chemistry
		Bilirubin, Direct by Spectrophotometry	Roche cobas 8000 system, BILD2 assay
		Bilirubin, Total by Spectrophotometry	Roche cobas 8000 system, BILT3 assay
		Calcium by Spectrophotometry	Roche cobas 8000 system, CA2 assay
		Chloride by Potentiometry	Roche cobas 8000 system, ISE CL assay
		Cholesterol, Total by Spectrophotometry	Roche cobas 8000 system, CHOL2 assay

Hospital Authority – Hong Kong Children's Hospital, Department of Pathology
醫院管理局–香港兒童醫院病理學部
Division of Chemical Pathology: 7/F, Tower A, Hong Kong Children's Hospital, 1 Shing Cheong Rd, Kowloon Bay, Kln, HK
香港九龍九龍灣承昌道一號香港兒童醫院 A 座七樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**General Chemistry (cont'd)**		
	Plasma (cont'd)	Cholesterol, High Density Lipoprotein (HDL-C) by Spectrophotometry	Roche cobas 8000 system, HDLC4 assay
		Creatine kinase (CK) by Spectrophotometry	Roche cobas 8000 system, CK2 assay
		Creatinine by Enzymatic method	Roche cobas 8000 system, CREA2 assay
		Gamma-Glutamyl Transferase (GGT) by Spectrophotometry	Roche cobas 8000 system, GGT2 assay
	Plasma, CSF	Glucose by Enzymatic method	Roche cobas 8000 system, GLUC3 assay
	Plasma	Haemoglobin, Free by Spectrophotometry (no reagent reaction)	Roche cobas 8000 system, SI2 assay
	Serum	Iron by Spectrophotometry	Roche cobas 8000 system, IRON2 assay
		Unsaturated Iron Binding Capacity (UIBC) by Spectrophotometry	Roche cobas 8000 system, UIBC assay
	Plasma, CSF	Lactate by Spectrophotometry	Roche cobas 8000 system, LACT2 assay
	Plasma	Lactate dehydrogenase (LDH) by Spectrophotometry	Roche cobas 8000 system, LDHI2 assay
		Magnesium by Spectrophotometry	Roche cobas 8000 system, MG2 assay
		N-Terminal pro B Type Natriuretic Peptide (NT-proBNP) by Immunoassay (Electrochemiluminescence)	Roche cobas 8000 system, PBNPX assay
		Osmolality by Freezing Point Depression	Arkray osmo station

Hospital Authority – Hong Kong Children's Hospital, Department of Pathology
醫院管理局–香港兒童醫院病理學部
Division of Chemical Pathology: 7/F, Tower A, Hong Kong Children's Hospital, 1 Shing Cheong Rd, Kowloon Bay, Kln, HK
香港九龍九龍灣承昌道一號香港兒童醫院 A 座七樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**General Chemistry (cont'd)**		
	Plasma (cont'd)	Phosphate by Spectrophotometry	Roche cobas 8000 system, PHOS2 assay
		Potassium by Potentiometry	Roche cobas 8000 system, ISE-K assay
		Protein, Total by Spectrophotometry	Roche cobas 8000 system, TP2 assay
	CSF	Protein, Total by Turbidimetry	Roche cobas 8000 system, TPUC3 assay
	Plasma	Sodium by Potentiometry	Roche cobas 8000 system, ISE-NA assay
		Triglycerides by Spectrophotometry	Roche cobas 8000 system, TRIGL assay
		Troponin T by Immunoassay (Electrochemiluminescence)	Roche cobas 8000 system, TNTHSSTX assay
		Urea by Spectrophotometry	Roche cobas 8000 system, UREAL assay
		Uric acid by Spectrophotometry	Roche cobas 8000 system, UA2 assay

Hospital Authority – Hong Kong Children's Hospital, Department of Pathology
醫院管理局–香港兒童醫院病理學部
Division of Chemical Pathology: 7/F, Tower A, Hong Kong Children's Hospital, 1 Shing Cheong Rd, Kowloon Bay, Kln, HK
香港九龍九龍灣承昌道一號香港兒童醫院 A 座七樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**General Chemistry (cont'd)**		
	Urine	Albumin by Immunoturbidimetry	Roche cobas 6000 and 8000 system, ALBT2 assay
		Amylase by Spectrophotometry	Roche cobas 6000 and 8000 system, AMYL2 assay
		Calcium by Spectrophotometry	Roche cobas 6000 and 8000 system, CA2 assay
		Chloride by Potentiometry	Roche cobas 6000 and 8000 system, ISE-CL assay
		Creatinine by Enzymatic method	Roche cobas 6000 system, CREA2 assay Roche cobas 8000 system, CRE2U assay
		Magnesium by Spectrophotometry	Roche cobas 6000 and 8000 system, MG2U assay
		Osmolality by Freezing Point Depression	Arkray osmo station
		Phosphate by Spectrophotometry	Roche cobas 6000 and 8000 system, PHOS2U assay
		Potassium by Potentiometry	Roche cobas 6000 and 8000 system, ISE-K assay
		Protein, Total by Turbidimetry	Roche cobas 6000 and 8000 system, TPU3 assay
		Sodium by Potentiometry	Roche cobas 6000 and 8000 system, IES-NA assay
		Urea by Spectrophotometry	Roche cobas 6000 system, UREAL assay Roche cobas 8000 system, URELU assay
		Uric acid by Spectrophotometry	Roche cobas 6000 system, UA2 assay Roche cobas 8000 system, UA2U assay

Hospital Authority – Hong Kong Children's Hospital, Department of Pathology
醫院管理局–香港兒童醫院病理學部
Division of Chemical Pathology: 7/F, Tower A, Hong Kong Children's Hospital, 1 Shing Cheong Rd, Kowloon Bay, Kln, HK
香港九龍九龍灣承昌道一號香港兒童醫院 A 座七樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**Hormones**		
	Serum	Cortisol by Immunoassay (Electrochemiluminescence)	Roche cobas 8000 system, Elecsys Cortisol II assay
		Tri-iodothyronine, Free (FT3) by Immunoassay (Electrochemiluminescence)	Roche cobas 8000 system, Elecsys FT3 III assay
		Thyroxine, Free (FT4) by Immunoassay (Electrochemiluminescence)	Roche cobas 8000 system, Elecsys FT4 IV assay
		Human chorionic gonadotrophin (β-HCG), Total by Immunoassay (Electrochemiluminescence)	Roche cobas 8000 system, Elecsys HCG-BETA assay
		Thyroid stimulating hormone (TSH) by Immunoassay (Electrochemiluminescence)	Roche cobas 8000 system, Elecsys TSH assay
	Protein, quantitative analysis		
	Serum	C-Reactive Protein by Immunoturbidimetry	Roche cobas 8000 system, CRP4 assay
	Plasma	Cystatin C by Immunoturbidimetry	Roche cobas 8000 system, Tina-quant Cystatin Gen 2 assay
	Faeces	Faecal Calprotectin by Immunoturbidimetry	Roche cobas 6000 system, fCAL turbo assay
	Serum	Ferritin by Immunoassay (Electrochemiluminescence)	Roche cobas 8000 system, Elecsys Ferritin assay

Hospital Authority – Hong Kong Children's Hospital, Department of Pathology
醫院管理局–香港兒童醫院病理學部
Division of Chemical Pathology: 7/F, Tower A, Hong Kong Children's Hospital, 1 Shing Cheong Rd, Kowloon Bay, Kln, HK
香港九龍九龍灣承昌道一號香港兒童醫院 A 座七樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	**Therapeutic Drug Monitoring**		
	Serum	Asparaginase by Spectrophotometry	Roche cobas c6000 system, in-house assay Method as documented in WI-CCP-TSM-ASPN
	Plasma	Busulfan by Liquid chromatography-tandem mass spectrometry	Sciex QTRAP 6500+, in-house assay Method as documented WI-CCP-TSM-SBUS
	Serum	Carbamazepine by Immunoassay (Kinetic interaction of microparticles in solution)	Roche cobas 8000 system, CARB4 assay
		Digoxin by Immunoassay (Electrochemiluminescence)	Roche cobas 8000 system, Elecsys DIGO assay
		Phenobarbital by Immunoassay (Kinetic interaction of microparticles in solution)	Roche cobas 8000 system, PHNO2 assay
		Phenytoin by Immunoassay (Kinetic interaction of microparticles in solution)	Roche cobas 8000 system, PHNY2 assay
		Theophylline by Immunoassay (Kinetic interaction of microparticles in solution)	Roche cobas 8000 system, THEO2 assay
		Valproic acid by Homogenous enzyme immunoassay	Roche cobas 8000 system, VALP2 assay
	Tumour Markers		
	Serum	Alpha-Fetoprotein (AFP) by Immunoassay (Electrochemiluminescence)	Roche cobas 8000 system, Elecsys AFP assay

Hospital Authority – Hong Kong Children's Hospital, Department of Pathology
醫院管理局–香港兒童醫院病理學部
Division of Chemical Pathology: 7/F, Tower A, Hong Kong Children's Hospital, 1 Shing Cheong Rd, Kowloon Bay, Kln, HK
香港九龍九龍灣承昌道一號香港兒童醫院 A 座七樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Immunology	**Immunochemistry**		
	Serum	Ceruloplasmin by Immunoturbidimetry	Roche cobas 8000 system, CERU3 assay
		Haptoglobin by Immunoturbidimetry	Roche cobas 8000 system, HAPT2 assay

Hospital Authority – Hong Kong Children's Hospital, Department of Pathology
醫院管理局–香港兒童醫院病理學部
Newborn Screening Laboratory:
G/F and 7/F, Tower A, Hong Kong Children's Hospital, 1 Shing Cheong Rd, Kowloon Bay, Kln, HK
香港九龍九龍灣承昌道一號香港兒童醫院 A 座地下及七樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology	**Inborn Errors of Metabolism**		
	Dried Blood Spot	Amino Acids and Acylcarnitines, Semi-quantitative by Tandem Mass Spectrometry	Flow Injection Analysis – Tandem Mass Spectrometry, Waters Xevo TQD system Revvity NeoBase 2 Non-derivatized MSMS kit
		17α-OH-progesterone by Immunoassay (Solid phase time-resolved fluoroimmunoassay)	Perkin Elmer Genetic Screening Processor, GSP Neonatal 17α-OH-progesterone Kit
		Biotinidase by Immunoassay (Solid phase time-resolved fluoroimmunoassay)	Perkin Elmer Genetic Screening Processor, GSP Neonatal Biotinidase Kit
		Galactose-1-Phosphate Uridylyltransferase, Semi-quantitative by Enzymatic assay	Perkin Elmer Genetic Screening Processor, GSP Neonatal GALT Kit
	Hormones (Newborn Screening)		
	Serum	Thyroid Stimulating Hormone (TSH) by Immunoassay (Chemiluminescent label)	Beckman Coulter DxI800, Access TSH (3rd IS) Assay
		Thyroxine, Free (FT4) by Immunoassay (Chemiluminescent label)	Beckman Coulter DxI800, Access Free T4 Assay

Hospital Authority – Hong Kong Children's Hospital, Department of Pathology
醫院管理局–香港兒童醫院病理學部
Division of Clinical Microbiology and Infection: 6/F & 7/F, Tower A, Hong Kong Children's Hospital, 1 Shing Cheong Rd, Kowloon Bay, Kln, HK
香港九龍九龍灣承昌道一號香港兒童醫院 A 座六樓及七樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection	**Bacteriology – culture and sensitivity tests and/or microscopy**		
	Blood culture	Culture and antimicrobial susceptibility tests for pathogens by Aerobic and anaerobic broth culture	Culture: Method as documented in WI-CMI-SOP-BLD and WI-CMI-SOP-BPR Antimicrobial susceptibility tests: Method as documented in PD-CMI-SOP-AST
	CSF	Microscopy for cell morphology - Cell count by • counting chamber • automated method - Microorganisms by Gram stain - Acid fast bacilli (AFB) by Auramine O fluorescent stain and Ziehl-Neelsen stain - Encapsulated yeast by India ink stain	Method as documented in WI-CMI-SOP-CNS
		Culture and antimicrobial susceptibility tests for pathogens by Aerobic and CO_2 culture	Culture: Method as documented in WI-CMI-SOP-CNS Antimicrobial susceptibility tests: Method as documented in PD-CMI-SOP-AST
	Enteric samples (including stool and rectal swab)	Culture and antimicrobial susceptibility tests for pathogens by Aerobic, anaerobic and microaerophilic culture	Culture: Method as documented in WI-CMI-SOP-STO Antimicrobial susceptibility tests: Method as documented in PD-CMI-SOP-AST

Hospital Authority – Hong Kong Children's Hospital, Department of Pathology
醫院管理局–香港兒童醫院病理學部
Division of Clinical Microbiology and Infection: 6/F & 7/F, Tower A, Hong Kong Children's Hospital, 1 Shing Cheong Rd, Kowloon Bay, Kln, HK
香港九龍九龍灣承昌道一號香港兒童醫院 A 座六樓及七樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Bacteriology – culture and sensitivity tests and/or microscopy (cont'd)**		
	Miscellaneous samples (including body fluid, dialysate, pus, swab, etc.)	Microscopy for cell morphology and microorganisms by Gram stain	Method as documented in WI-CMI-SOP-MIS
		Cell count (body fluid) by - counting chamber - automated method	Method as documented in WI-CMI-SOP-MIS Sysmex XN-350 Method as documented in WI-CMI-OPM-XNC
		Culture and antimicrobial susceptibility tests for pathogens by Aerobic, CO_2 and anaerobic culture	Culture: Method as documented in WI-CMI-SOP-MIS Antimicrobial susceptibility tests: Method as documented in PD-CMI-SOP-AST
	Lower respiratory tract samples (including sputum, bronchial aspirate, tracheal aspirate, etc.)	Microscopy for cell morphology and microorganisms by Gram stain	Method as documented in WI-CMI-SOP-RES
		Culture and antimicrobial susceptibility tests for pathogens by Aerobic and CO_2 culture	Culture: Method as documented in WI-CMI-SOP-RES Antimicrobial susceptibility tests: Method as documented in PD-CMI-SOP-AST
	Bronchoalveolar lavage and protected bronchial brush	Quantitative culture and antimicrobial susceptibility tests for pathogens by Aerobic and CO_2 culture	Culture: Method as documented in WI-CMI-SOP-RES Antimicrobial susceptibility tests: Method as documented in PD-CMI-SOP-AST
	Upper respiratory tract samples (throat swab)	Culture and antimicrobial susceptibility tests for respiratory tract pathogens by Aerobic and CO_2 culture	Culture: Method as documented in WI-CMI-SOP-RES Antimicrobial susceptibility tests: Method as documented in PD-CMI-SOP-AST

Hospital Authority – Hong Kong Children's Hospital, Department of Pathology
醫院管理局–香港兒童醫院病理學部
Division of Clinical Microbiology and Infection: 6/F & 7/F, Tower A, Hong Kong Children's Hospital, 1 Shing Cheong Rd, Kowloon Bay, Kln, HK
香港九龍九龍灣承昌道一號香港兒童醫院 A 座六樓及七樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Bacteriology – culture and sensitivity tests and/or microscopy (cont'd)**		
	Urine	Culture and antimicrobial susceptibility tests for pathogens by Standard loop method and aerobic culture	Culture: Method as documented in WI-CMI-SOP-URI Antimicrobial susceptibility tests: Method as documented in PD-CMI-SOP-AST
	Rectal swab, stool, urine	Culture and antimicrobial susceptibility tests for Vancomycin-resistant *Enterococcus* (VRE)	Culture: Method as documented in WI-CMI-SOP-MDR Antimicrobial susceptibility tests: Method as documented in PD-CMI-SOP-AST
	Nasal swab and other samples (including axilla swab, combined swab, perineal swab, umbilical swab, wound swab, etc.)	Culture and antimicrobial susceptibility tests for Methicillin-resistant *Staphylococcus aureus* (MRSA)	Culture: Method as documented in WI-CMI-SOP-MDR Antimicrobial susceptibility tests: Method as documented in PD-CMI-SOP-AST
	Throat swab, stool, rectal swab, sputum, urine, wound swab, etc.	Culture and antimicrobial susceptibility tests for - Carbapenem-resistant *Enterobacterales* (CRE) - Carbapenem-resistant *Acinetobacter* / Multidrug-resistant *Acinetobacter* (CRA/MDRA) - ESBL-producing *Enterobacterales*	Culture: Method as documented in WI-CMI-SOP-MDR Antimicrobial susceptibility tests: Method as documented in PD-CMI-SOP-AST
	Nasal swab and pooled swab (including axilla and groin, etc.)	Identification of *Candida auris* by Culture, Aerobic method	Method as documented in WI-CMI-SOP-MDR
	Clinical isolates	Identification of clinical isolates by - MALDI-TOF mass spectrometry - Conventional biochemical tests	bioMerieux VITEK MS Method as documented in WI-CMI-SOP-VMS, WI-CMI-DAB-VMS and WI-CMI-SOP-BIO

Hospital Authority – Hong Kong Children's Hospital, Department of Pathology
醫院管理局–香港兒童醫院病理學部
Division of Clinical Microbiology and Infection: 6/F & 7/F, Tower A, Hong Kong Children's Hospital, 1 Shing Cheong Rd, Kowloon Bay, Kln, HK
香港九龍九龍灣承昌道一號香港兒童醫院 A 座六樓及七樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Mycology - Culture, ID and Serology**		
	Blood culture	Culture for fungi by Automated broth culture method	Method as documented in WI-CMI-SOP-BLD and WI-CMI-SOP-FUN
	Samples from central nervous system, enteric samples, respiratory samples, miscellaneous samples and urine	Microscopy of fungal elements and yeasts by Gram stain	Method as documented in WI-CMI-SOP-FUN
		Culture for fungi by Conventional method	Method as documented in WI-CMI-SOP-FUN
	Fungal isolates	Identification by - MALDI-TOF mass spectrometry - Conventional identification tests	bioMerieux VITEK MS Method as documented in WI-CMI-SOP-VMS WI-CMI-DAB-VMS and WI-CMI-SOP-FUN
	CSF, serum	Cryptococcal antigen by Immunochromatographic test	Method as documented in WI-CMI-SOP-BIO
	Microbiology - Miscellaneous tests		
	Urine	Pregnancy test for human chorionic gonadotrophin (hCG), qualitative by Immunochromatographic assay	Method as documented in WI-CMI-SOP-URI
	Serum	Procalcitonin by Enzyme linked fluorescent assay (ELFA) (Chemiluminescent label)	bioMerieux VIDAS BRAHMS PCT assay Method as documented in WI-CMI-SOP-PCT
	Urinalysis and Urine Microscopy		
	Urine	Formed elements and cell morphology for - Semi-quantitative count for WBC, RBC and casts by Fixed volume microtitre plate method - Crystal by Fixed volume microtitre plate method - Dysmorphic RBC by Counting chamber	Method as documented in WI-CMI-SOP-URI

Hospital Authority – Hong Kong Children's Hospital, Department of Pathology
醫院管理局–香港兒童醫院病理學部
Division of Clinical Microbiology and Infection: 6/F & 7/F, Tower A, Hong Kong Children's Hospital, 1 Shing Cheong Rd, Kowloon Bay, Kln, HK
香港九龍九龍灣承昌道一號香港兒童醫院 A 座六樓及七樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	**Urinalysis and Urine Microscopy (cont'd)**		
	Urine (cont'd)	Urine chemical test by	
		Automated method, including	Sysmex UC-3500
		- Bilirubin	Method as documented in WI-CMI-SOP-URI
		- Blood	
		- Cloudiness	
		- Colour	
		- Glucose	
		- Ketone	
		- Leucocytes	
		- Nitrate	
		- pH	
		- Protein	
		- Urobilinogen	
	Virology – Serology		
	Serum	Hepatitis B virus surface antigen (HBsAg) by	
		Immunoassay (Chemiluminescent label)	Abbott ARCHITECT i1000SR HBsAg Qualitative Assay Abbott ARCHITECT i1000SR HBsAg Confirmatory Assay
		Hepatitis B virus core antibody (anti-HBc) total by	
		Immunoassay (Chemiluminescent label)	Abbott ARCHITECT i1000SR Anti-HBc Assay
		Hepatitis B virus surface antibody (anti-HBs), quantitative by	
		Immunoassay (Chemiluminescent label)	Abbott ARCHITECT i1000SR Anti-HBs Assay
		Hepatitis C virus antibody by	
		Immunoassay (Chemiluminescent label)	Abbott ARCHITECT i1000SR Anti-HCV Assay
		Varicella zoster virus IgG antibody by	
		Enzyme linked fluorescent assay (ELFA)	bioMerieux VIDAS Varicella-Zoster IgG Assay
		Cytomegalovirus IgG antibody by	
		Enzyme linked fluorescent assay (ELFA)	bioMerieux VIDAS Cytomegalovirus IgG Assay

Hospital Authority – Hong Kong Children's Hospital, Department of Pathology
醫院管理局–香港兒童醫院病理學部
Division of Clinical Microbiology and Infection: 6/F & 7/F, Tower A, Hong Kong Children's Hospital, 1 Shing Cheong Rd, Kowloon Bay, Kln, HK
香港九龍九龍灣承昌道一號香港兒童醫院 A 座六樓及七樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics	**Molecular Genetics (microbiology)**		
	CSF	Multiple meningitis and encephalitis pathogens detection and identification by multiplexed nucleic acid test, qualitative - *Escherichia coli* K1 - *Haemophilus influenzae* - *Listeria monocytogenes* - *Neisseria meningitidis* - *Streptococcus agalactiae* - *Streptococcus pneumoniae* - *Cryptococcus neoformans/gattii* - Cytomegalovirus (CMV) - Enterovirus (EV) - Herpes simplex virus 1 (HSV-1) - Herpes simplex virus 2 (HSV-2) - Human herpesvirus 6 (HHV-6) - Human parechovirus (HPeV) - Varicella zoster virus (VZV) (Target regions: proprietary)	BioFire FilmArray Meningitis/Encephalitis (ME) Panel Method as documented in WI-CMI-SOP-MOL
	Nasal swab	Detection of Methicillin-resistant *Staphylococcus aureus* by Real time Polymerase Chain Reaction, qualitative (Target regions: mecA gene, mecC gene and SCCmec)	Cepheid Xpert MRSA NXG Assay Nucleic acid amplification and detection by Cepheid GeneXpert Method as documented in WI-CMI-SOP-MOL
	Respiratory samples (nasopharyngeal aspirate (NPA), nasopharyngeal swab (NPS))	Detection of Influenza A virus, Influenza B virus and Respiratory Syncytial Virus (RSV) by Real time Polymerase Chain Reaction, qualitative (Target regions: Influenza A virus: M, PB2 and PA gene; Influenza B virus: M and NS gene; RSV: RSV A and RSV B nucleocapsid gene)	Cepheid Xpert Xpress Flu/RSV Assay Nucleic acid amplification and detection by Cepheid GeneXpert Method as documented in WI-CMI-SOP-MOL

Hospital Authority – Hong Kong Children's Hospital, Department of Pathology
醫院管理局–香港兒童醫院病理學部
Division of Clinical Microbiology and Infection: 6/F & 7/F, Tower A, Hong Kong Children's Hospital, 1 Shing Cheong Rd, Kowloon Bay, Kln, HK
香港九龍九龍灣承昌道一號香港兒童醫院 A 座六樓及七樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics (cont'd)	**Molecular Genetics (microbiology) (cont'd)**		
	Respiratory samples (nasopharyngeal aspirate (NPA), nasopharyngeal swab (NPS)) (cont'd)	Multiple respiratory pathogens – Detection and identification by Multiplex Polymerase Chain Reaction, qualitative (Viruses) - Adenovirus - Coronavirus 229E - Coronavirus HKU1 - Coronavirus NL63 - Coronavirus OC43 - Human Metapneumovirus - Human Rhinovirus/Enterovirus - Influenza A virus subtype H1 - Influenza A virus subtype H3 - Influenza A virus subtype 2009 H1N1 - Influenza B virus - Middle East Respiratory Syndrome Coronavirus (MERS-CoV) - Parainfluenza virus 1 - Parainfluenza virus 2 - Parainfluenza virus 3 - Parainfluenza virus 4 - Respiratory Syncytial Virus, - Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) (Bacteria) - *Bordetella parapertussis,* - *Bordetella pertussis,* - *Chlamydia pneumoniae* and - *Mycoplasma pneumoniae* (Target regions: proprietary)	BioFire Respiratory Panel RP2.1 plus Method as documented in WI-CMI-SOP-MOL
	Stool	Detection of toxigenic *Clostridioides difficile* by Real time Polymerase Chain Reaction, qualitative (Target regions: tcdB gene, cdt gene and tcdC deletion nt 117)	Nucleic acid amplification and detection by Cepheid GeneXpert System Cepheid Xpert *C. difficile* Assay Method as documented in WI-CMI-SOP-MOL

Hospital Authority – Hong Kong Children's Hospital, Department of Pathology
醫院管理局–香港兒童醫院病理學部
Division of Clinical Microbiology and Infection: 6/F & 7/F, Tower A, Hong Kong Children's Hospital, 1 Shing Cheong Rd, Kowloon Bay, Kln, HK
香港九龍九龍灣承昌道一號香港兒童醫院 A 座六樓及七樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics (cont'd)	**Molecular Genetics (microbiology) (cont'd)**		
	Plasma	Adenovirus - detection by Real time Polymerase Chain, quantitative (Target region: Proprietary)	Nucleic acid extraction by MagNA Pure 96 Amplification and detection by LightCycler 480 II Method as documented in WI-CMI-SOP-QPCR
		Cytomegalovirus - detection by Real time Polymerase Chain, quantitative (Target region: Proprietary)	Nucleic acid extraction by MagNA Pure 96 Amplification and detection by LightCycler 480 II Method as documented in WI-CMI-SOP-QPCR
		Epstein-Barr virus - detection by Real time Polymerase Chain, quantitative (Target region: Proprietary)	Nucleic acid extraction by MagNA Pure 96 Amplification and detection by LightCycler 480 II Method as documented in WI-CMI-SOP-QPCR
	Plasma and Urine	BK polyomavirus - detection by Real time Polymerase Chain, quantitative (Target region: Proprietary)	Nucleic acid extraction by MagNA Pure 96 Amplification and detection by LightCycler 480 II Method as documented in WI-CMI-SOP-QPCR

Hospital Authority – Hong Kong Children's Hospital, Department of Pathology
醫院管理局–香港兒童醫院病理學部
Division of Haematology: 7/F, Tower A, Hong Kong Children's Hospital, 1 Shing Cheong Rd, Kowloon Bay, Kln, HK
香港九龍九龍灣承昌道一號香港兒童醫院 A 座七樓

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology	**Blood Bank - General**		
	EDTA whole blood	ABO and Rh(D) typing by	
		- Red cell agglutination, automated	Bio-Rad IH-500 Method as documented in BBK-WI-106
		- Red cell agglutination, manual	Method as documented in BBK-WI-107
		Antibody Screening by	Method as documented in BBK-WI-115
		- Gel Column Agglutination Technology, automated	Bio-Rad IH-500 Method as documented in BBK-WI-108
		- Gel Column Agglutination Technology, manual	Method as documented in BBK-WI-109
		- Saline – Indirect antiglobulin test	Method as documented in BBK-WI-110
		- Prewarmed – Indirect antiglobulin test	Method as documented in BBK-WI-111
		Crossmatch by	
		- Electronic crossmatch	Method as documented in BBK-WI-105
		- Gel Column Agglutination Technology, automated	Bio-Rad IH-500 Method as documented in BBK-WI-105
		- Gel Column Agglutination Technology, manual	Method as documented in BBK-WI-105
		- Saline – Indirect antiglobulin test	Method as documented in BBK-WI-110
		- Prewarmed – Indirect antiglobulin test	Method as documented in BBK-WI-111
		- Immediate spin	Method as documented in BBK-WI-105
		Red cell phenotyping by - Direct agglutination - Indirect antiglobulin test	Method as documented in BBK-WI-117
	Blood Bank - Special		
	EDTA whole blood and serum	Antibody investigation by	
		- Gel Column Agglutination Technology, automated	Bio-Rad IH-500 Method as documented in BBK-WI-116
		- Gel Column Agglutination Technology, manual	Method as documented in BBK-WI-109
		- Saline – Indirect antiglobulin test	Method as documented in BBK-WI-110
	EDTA whole blood, serum and donor unit	Transfusion reaction investigation by	
		- ABO and Rh(D) typing	Bio-Rad IH-500
		- Antibody screening	Method as documented in BBK-WI-118
		- Crossmatching	
		- Direct antiglobulin test	

Hospital Authority – Hong Kong Children's Hospital, Department of Pathology
醫院管理局–香港兒童醫院病理學部
Division of Haematology: 7/F, Tower A, Hong Kong Children's Hospital, 1 Shing Cheong Rd, Kowloon Bay, Kln, HK
香港九龍九龍灣承昌道一號香港兒童醫院 A 座七樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology (cont'd)	**Blood Bank - Immunohaematology**		
	EDTA whole blood	Anti-A & Anti-B Antibody Titration Studies by	
		- Gel Column Agglutination Technology, automated	Method as documented in BBK-WI-126
		Direct antiglobulin test by	
		- Gel Column Agglutination Technology, automated	Bio-Rad IH-500 Method as documented in BBK-WI-112
		- Gel Column Agglutination Technology, manual	Method as documented in BBK-WI-113
		- Conventional method	Method as documented in BBK-WI-114
	Coagulation		
	Citrate blood	Coagulation studies including:	Sysmex CS-2500 Analyser
		- Prothrombin Time (PT)	Method as documented in HAE-WI-21-03
		- Activated partial thromboplastin time (APTT)	Method as documented in HAE-WI-21-03
		- Fibrinogen Quantitation	Method as documented in HAE-WI-21-05
		- D Dimer	Method as documented in HAE-WI-21-08
		- Thrombin Time	Method as documented in HAE-WI-21-06
		- Protamine Sulphate test	Method as documented in HAE-WI-21-07
		Anti-Xa (Low Molecular Weight Heparin)	Sysmex CS-2500 Analyser Method as documented in HAE-WI-22-05
		Anti-Xa (Unfractionated Heparin)	Sysmex CS-2500 Analyser Method as documented in HAE-WI-22-05
		Anti-Thrombin Assay	Sysmex CS-2500 Analyser Method as documented in HAE-WI-22-01
		Factor Assay including: - Factor II - Factor V - Factor VII - Factor VIII - Factor IX - Factor X - Factor XI - Factor XII	Sysmex CS-2500 Analyser Method as documented in HAE-WI-22-02

Hospital Authority – Hong Kong Children's Hospital, Department of Pathology
醫院管理局–香港兒童醫院病理學部
Division of Haematology: 7/F, Tower A, Hong Kong Children's Hospital, 1 Shing Cheong Rd, Kowloon Bay, Kln, HK
香港九龍九龍灣承昌道一號香港兒童醫院 A 座七樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology (cont'd)	**Coagulation (cont'd)**		
	Citrate blood	Factor Inhibitor Screening	Sysmex CS-2500 Analyser Method as documented in HAE-WI-22-04
		FVIII Inhibitor Assay	Sysmex CS-2500 Analyser Method as documented in HAE-WI-22-03
		FIX Inhibitor Assay	Sysmex CS-2500 Analyser Method as documented in HAE-WI-22-03
		Platelet Aggregation Assay by Light transmission aggregometry	Sysmex CS-2500 Analyser Method as documented in HAE-WI-22-11
		Von Willebrand Factor Activity (VWFAc) by Latex enhanced assay	Sysmex CS-2500 Analyser Method as documented in HAE-WI-22-06
		Von Willebrand Factor Antigen(VWFAg) by Immunoturbidimetric assay	Sysmex CS-2500 Analyser Method as documented in HAE-WI-22-07
		Von Willebrand Factor Collagen by ELISA	Method as documented in HAE-WI-22-09
		Von Willebrand Factor FVIIIB by ELISA	Method as documented in HAE-WI-22-10
		Von Willebrand Factor Multimeric Study by Agarose gel electrophoresis and immunofixation	Sebia-Hydrasys 2 Scan Focusing Method as documented in HAE-WI-22-08

Hospital Authority – Hong Kong Children's Hospital, Department of Pathology
醫院管理局–香港兒童醫院病理學部
Division of Haematology: 7/F, Tower A, Hong Kong Children's Hospital, 1 Shing Cheong Rd, Kowloon Bay, Kln, HK
香港九龍九龍灣承昌道一號香港兒童醫院 A 座七樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology (cont'd)	**Haematology – General**		
	EDTA whole blood	Complete blood count including: - Haematocrit (HCT) - Haemoglobin (HGB) - Leucocyte differential count, automated - Mean corpuscular haemoglobin (MCH) - Mean corpuscular haemoglobin concentration (MCHC) - Mean corpuscular volume (MCV) - Mean Platelet Volume (MPV) - Platelet count - Red blood cell (RBC) count - Red cell distribution width (RDW) - White blood cell (WBC) count	Sysmex XN-20 Analyser Method as documented in HAE-WI-11-02
		Reticulocyte count by Automated method	Sysmex XN-20 Analyser Method as documented in HAE-WI-11-02 and HAE-WI-11-15
		Cerebrospinal Fluid (CSF) examination for abnormal cell identification by CSF smear	Method as documented in HAE-WI-11-16
		Malaria parasite examination by Thick and thin films	Method as documented in HAE-WI-11-17
		Peripheral blood smear examination by Wright's Stain	Slide prepared and stained by Sysmex SP50 Method as documented in HAE-WI-11-09 and HAE-WI-11-11
	Haematology – Special		
	EDTA whole blood	Haemoglobin Pattern Study	Bio-Rad Variant II HPLC Analyser Method as documented in HAE-WOI-33-01
	EDTA marrow blood aspirate, clot, trephine	Bone Marrow Examination: - Specimen preparation and routine staining - Marrow smear - Wright & Giemsa stain - Perls' Prussian Blue stain	Method as documented in HAE-WI-13-01 and HAE-WI-13-02

Hospital Authority – Hong Kong Children's Hospital, Department of Pathology
醫院管理局–香港兒童醫院病理學部
Division of Haematology: 7/F, Tower A, Hong Kong Children's Hospital, 1 Shing Cheong Rd, Kowloon Bay, Kln, HK
香港九龍九龍灣承昌道一號香港兒童醫院 A 座七樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology (cont'd)	**Haematology – Special**		
	EDTA marrow blood	Diagnosis of Acute Leukaemia by Flow Cytometry	Beckman Coulter Navios EX Flow Cytometer Method as documented in HAE-WI-32-15
	EDTA peripheral blood, CSF	Enumeration of Anti-CD19 CAR-T cells by Flow Cytometry	Beckman Coulter Navios EX Flow Cytometer Method as documented in HAE-WI-32-22 & -23
	CSF	Detection of Cerebrospinal Fluid (CSF) Blast by Flow Cytometry	Beckman Coulter Navios EX Flow Cytometer Method as documented in HAE-WI-32-24
	EDTA peripheral blood	Eosin-5-maleimide (EMA) Binding Test by Flow Cytometry	Beckman Coulter Navios EX Flow Cytometer Method as documented in HAE-WI-32-17
		Lymphocytes Subset by Flow Cytometry	Beckman Coulter Navios EX Flow Cytometer Method as documented in HAE-WI-32-13
	EDTA marrow blood	Detection of Minimal Residual Disease in B-Lymphoblastic Leukaemia by Flow Cytometry	Beckman Coulter Navios EX Flow Cytometer Method as documented in HAE-WI-32-19
		Detection of Minimal Residual Disease in T-Lymphoblastic Leukaemia by Flow Cytometry	Beckman Coulter Navios EX Flow Cytometer Method as documented in HAE-WI-32-20
		Detection of Minimal Residual Disease in Acute Myeloid Leukaemia by Flow Cytometry	Beckman Coulter Navios EX Flow Cytometer Method as documented in HAE-WI-32-21
	EDTA peripheral blood	Memory B Cell Assay by Flow Cytometry	Beckman Coulter Navios EX Flow Cytometer Method as documented in HAE-WI-32-14
		Detection of Paroxymal Nocturnal Haemoglobinuria (PNH) Clone by Flow Cytometry	Beckman Coulter Navios EX Flow Cytometer Method as documented in HAE-WI-32-16

Hospital Authority – Hong Kong Children's Hospital, Department of Pathology
醫院管理局–香港兒童醫院病理學部
Division of Haematology: 7/F, Tower A, Hong Kong Children's Hospital, 1 Shing Cheong Rd, Kowloon Bay, Kln, HK
香港九龍九龍灣承昌道一號香港兒童醫院 A 座七樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics	**Cytogenomics (Cancer cytogenetics)**		
	Bone marrow / Peripheral blood	Culture and chromosome analysis by G-banding	Method as documented in HAE-WI-41-01 HAE-WI-41-03 HAE-WI-41-04 HAE-WI-41-05
		Detection of chromosomal abnormalities by Fluorescence In-situ Hybridisation (FISH)	Method as documented in HAE-WI-42-01 HAE-WI-42-11 HAE-WI-42-12
	Cytogenomics (Constitutional cytogenetics)		
	Peripheral blood	Detection of chromosomal abnormalities by Fluorescence In-situ Hybridisation (FISH)	Method as documented in HAE-WI-42-15 HAE-WI-42-16 HAE-WI-42-17 HAE-WI-42-18 HAE-WI-42-19 HAE-WI-42-20 HAE-WI-42-21 HAE-WI-42-22 HAE-WI-42-23 HAE-WI-42-24
		Culture and chromosome analysis by G-banding	Method as documented in HAE-WI-41-07 HAE-WI-41-08

Hospital Authority – Hong Kong Children's Hospital, Department of Pathology
醫院管理局–香港兒童醫院病理學部
Division of Genetic and Genomic Pathology: 6/F, Tower A, Hong Kong Children's Hospital, 1 Shing Cheong Rd, Kowloon Bay, Kln, HK
香港九龍九龍灣承昌道一號香港兒童醫院 A 座六樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics	**Molecular Genetics (haematology)**		
	Fresh samples (including blood, buccal swabs, and bone marrow)	Thalassemia genotyping by Gap-PCR, Sanger sequencing and Multiplex Ligation-dependent Probe Amplification (MLPA)	Thermo Fisher 3500 / 3500XL Genetic Analysers Methods as documented in - Handling, Storage and Disposal of Primary Samples and Nucleic Acids in GG Lab (WI-GGP-SOP-SPE-GG) - DNA Extraction (WI-GGP-SOP-EXT-DNA) - Automated DNA Extraction (WI-GGP-SOP-EXT-ADNA) - Thalassemia Genotyping (WI-GGP-SOP-TES-THAL) - Polymerase Chain Reaction (PCR) (WI-GGP-SOP-TES-PCR) - Cycle Sequencing (WI-GGP-SOP-TES-CYCSEQ) - Capillary Sequencing (WI-GGP-SOP-TES-CAPSEQ) - Multiplex Ligation-dependent Probe Amplification (MLPA) (WI-GGP-SOP-TES-MLPA)
	Bone marrow and blood	AML / ALL common gene fusion by Reverse Transcription Real-time Polymerase Chain Reaction (RT-qPCR)	DNA Diagnostics HemaVision® - 28Q Thermo Fisher QuanStudio7 Methods as documented in - RNA Extraction (WI-GGP-SOP-EXT-RNA) - AML/ALL Common Gene Fusion Panel (WI-GGP-SOP-TES-HEMA)
	Molecular Genetics (chemical pathology)		
	Blood	DiGeorge syndrome by Multiplex Ligation-dependent Probe Amplification (MLPA)	Thermo Fisher 3500 / 3500XL Genetic Analysers Methods as documented in DiGeorge MLPA (WI-GGP-SOP-TES-DIG-MLPA)
		Spinal Muscular Atrophy (SMA) by Multiplex Ligation-dependent Probe Amplification (MLPA)	Thermo Fisher 3500 / 3500XL Genetic Analysers Methods as documented in Spinal Muscular Atrophy MLPA (WI-GGP-SOP-TES-SMA-MLPA)
		Fragile X / FMR1-related disorders by Fragment analysis	Thermo Fisher 3500 / 3500XL Genetic Analysers Methods as documented in Fragile X Repeat Expansion Analysis (WI-GGP-SOP-FMR1)

GenieBiome (Diagnostic) Co., Limited – G-NiiB Molecular & MicroBiome Laboratory
精進微生物(檢測)有限公司 – G-NiiB 分子及微生物菌群實驗室

ADDRESS **地址**	:	Room 902, 9/F, 208 Johnston Road, Wanchai, Hong Kong 香港灣仔莊士敦道 208 號 9 樓 902 室
ENQUIRY **查詢**	:	Mr PANG Wing-hang 彭永恒先生
TELEPHONE **電話**	:	29030703
FAX **傳真**	:	N/A
E-MAIL **電郵**	:	ericpang@g-niib.com
WEBSITE ADDRESS **網址**	:	www.g-niib.com
CLIENTELE **服務對象**	:	Private physicians, medical centres, private and public hospitals and other medically related institutions 私家醫生，醫療中心，私營及公營醫院和醫療有關的機構

GenieBiome (Diagnostic) Co., Limited – G-NiiB Molecular & MicroBiome Laboratory
精進微生物(檢測)有限公司 – G-NiiB 分子及微生物菌群實驗室

ADDRESS **地址**	:	Room 902, 9/F, 208 Johnston Road, Wanchai, Hong Kong 香港灣仔莊士敦道 208 號 9 樓 902 室
LABORATORY DIRECTOR **化驗所主管**	:	**Biomedical Scientist Director 醫務科學主管:** Mr PANG Wing-hang 彭永恒先生 MSc, BSc, FIBMS, Reg. Part I MLT
ACCREDITED TEST CATEGORY **認可測試類別**	:	**Medical Testing 醫務化驗** Chemical Pathology 化學病理學

GenieBiome (Diagnostic) Co., Limited – G-NiiB Molecular & MicroBiome Laboratory
精進微生物(檢測)有限公司 – G-NiiB 分子及微生物菌群實驗室
Room 902, 9/F, 208 Johnston Road, Wanchai, Hong Kong
香港灣仔莊士敦道 208 號 9 樓 902 室

MEDICAL TESTING			
DISCIPLINE 專科範疇	**TEST AREA OR SAMPLE TYPE** 測試範圍或樣本種類	**SPECIFIC EXAMINATION OR PROPERTY MEASURED** 特定測試或量度的特性	**METHOD OR TECHNIQUE USED** 方法或應用技術
This laboratory is accredited for performing the examinations listed below.			
Chemical Pathology	**Special Chemistry** Stool	Fecal Occult Blood by Latex Agglutination	Eiken OC-sensor iO Analyser FIT assay

Hong Kong Center for Neurodegenerative Diseases Limited – Clinical Laboratory
香港神經退行性疾病中心 – 臨床化驗室

ADDRESS **地址**	:	Units 1501-1502, 1512-1513 & 1515-1518, 15/F Building 17W, 17 Science Park W Ave, Science Park, Pak Shek Kok, New Territories, Hong Kong 香港新界白石角香港科學園科技大道西 17 號 17W 大樓 15 樓 1501-1502, 1512-1513 及 1515-1518 室
ENQUIRY **查詢**	:	Ms CHAK Wing Po 翟詠寶女士
TELEPHONE **電話**	:	23563161
FAX **傳真**	:	27396798
E-MAIL **電郵**	:	rainbowchak@hkcend.org
WEBSITE ADDRESS **網址**	:	https://www.hkcend.org/
CLIENTELE **服務對象**	:	Private physicians, medical centres, private and public hospitals and other medically related institutions 私家醫生，醫療中心，私營及公營醫院和醫療有關的機構

Hong Kong Center for Neurodegenerative Diseases Limited – Clinical Laboratory
香港神經退行性疾病中心 – 臨床化驗室

ADDRESS
地址 : Units 1501-1502, 1512-1513 & 1515-1518, 15/F Building 17W, 17 Science Park W Ave, Science Park, Pak Shek Kok, New Territories, Hong Kong
香港新界白石角香港科學園科技大道西 17 號 17W 大樓 15 樓 1501-1502, 1512-1513 及 1515-1518 室

LABORATORY DIRECTOR
化驗所主管 : **Biomedical Scientist Director 醫務科學主管:**
Mr Sunny KWONG Chun Sing
鄺振昇先生
BSc, MSc, Reg Part I MLT, CT (IAC)

ACCREDITED TEST CATEGORY
認可測試類別 : **Medical Testing 醫務化驗**

Haematology	血液學

Hong Kong Center for Neurodegenerative Diseases Limited – Clinical Laboratory
香港神經退行性疾病中心 - 臨床化驗室
Units 1501-1502, 1512-1513 & 1515-1518, 15/F Building 17W, 17 Science Park W Ave, Science Park, Pak Shek Kok, New Territories, Hong Kong
香港新界白石角香港科學園科技大道西 17 號 17W 大樓 15 樓 1501-1502, 1512-1513 及 1515-1518 室

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is assessed for performing the examinations listed below.			
Haematology	**General Haematology** EDTA whole blood	Complete blood count including - Red cell count - Platelet Count - Haemoglobin - Haematocrit - Mean corpuscular volume (MCV) - Mean corpuscular haemoglobin (MCH) - Mean corpuscular haemoglobin concentration (MCHC) - Red cell distribution width (RDW) - White blood cell (WBC) count	Sysmex XN-1000
		Leukocyte differential count by automated method	Sysmex XN-1000
		Peripheral blood smear examination by Wright - Giemsa stain	Method as documented in CL-PRO-HAE-PBS-01