



**Government Laboratory – Analytical and Advisory Services Division**

政府化驗所 - 分析及諮詢事務部

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

#### 地址

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

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

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

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

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

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

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

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

**ACCREDITED TEST CATEGORIES** : Calibration Services 校正服務  
認可測試類別

Chemical Testing 化學測試

Chinese Medicine 中藥

Environmental Testing 環境測試

Food 食品

Miscellaneous 雜類

Pharmaceutical Products 藥物

Physical and Mechanical Testing 物理及機械測試

Proficiency Testing Providers 能力驗證提供者

Reference Material Producers 標準物質生產者

Toys and Children's Products 玩具及兒童產品

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

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<b>Chinese Medicine 中藥</b>		
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Proprietary Chinese Medicines and Chinese Herbal Medicines	Toxic elements :- Arsenic, Cadmium, Copper, Lead, Mercury	In-house Method GL-CM-3 (ICP-MS)

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Consumer Products :  - Air Freshener, Floor Wax Stripper, Hairspray, Insect Repellent, Insecticide, Multi-purpose Lubricant	Volatile organic compound content :  - Total volatile material - Water content - Water content - Ammonium	California Environmental Protection Agency California Air Resources Board (CARB) Method 310 (Amended May 5, 2005)  - MLD SOP SAS01 (June 27, 2003) - MLD SOP SAS03 (July 8, 2003) (Karl Fischer) - MLD SOP SAS04 (September 5, 2003) (GC-TCD) - MLD SOP SAS02 (July 7, 2003) (ion chromatography)



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Ambient air in DNPH impregnated SEP-PAK cartridge	Carbonyl compounds :  Formaldehyde Acetaldehyde Acrolein Acetone Propionaldehyde Crotonaldehyde Methyl ethyl ketone Butyraldehyde/Isobutyraldehyde Benzaldehyde Isovaleraldehyde Valeraldehyde o-Tolualdehyde m-Tolualdehyde p-Tolualdehyde Hexanaldehyde 2,5-Dimethylbenzaldehyde	In-house Method GL-OR-8

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Ambient Air	Volatile organic compounds :  Freon 12 Chloromethane Freon 114 Chloroethene Bromomethane Chloroethane Freon 11 1,1-Dichloroethene Methylene chloride Freon 113 1,1-Dichloroethane cis-1,2-Dichloroethene Chloroform 1,2-Dichloroethane 1,1,1-Trichloroethane Benzene Carbon tetrachloride 1,2-Dichloropropane Trichloroethene cis-1,3 -Dichloropropene trans-1,3-Dichloropropene 1,1,2-Trichloroethane Toluene 1,2-Dibromoethane Tetrachloroethene Chlorobenzene Ethylbenzene m-/p-Xylene Styrene 1,1,2,2-Tetrachloroethane o-Xylene 4-Ethyltoluene 1,3,5-Trimethylbenzene 1,2,4-Trimethylbenzene Benzyl chloride m-Dichlorobenzene p- Dichlorobenzene o- Dichlorobenzene 1,2,4-Trichlorobenzene Hexachlorobutadiene	In-house Method GL-OR-9



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Ambient air (cont'd)	Volatile organic compounds (cont'd):  Propylene Propane Freon 22 1-Propyne Iso-butane 1-Butene/Iso-Butylene Butane trans-2-Butene 2,2-Dimethylpropane 1-Butyne cis-2-Butene 1,3-Butadiene 2-Methylbutane 1-Pentene 2-Methyl-1-Butene Pentane Isoprene Bromoethane trans-2-Pentene cis-2-Pentene 2-Methyl-2-Butene 3-Chloropropene 2,2-Dimethylbutane Cyclopentene trans-1,2-Dichloroethene 4-Methyl-1-Pentene 3-Methyl-1-Pentene Cyclopentane 2,3-Dimethylbutane trans-4-Methyl-2-Pentene 2-Methylpentane cis-4-Methyl-2-Pentene 3-Methylpentane Hexane trans-2-Hexene 2-Ethyl-1-Butene trans-3-Methyl-2-Pentene	In-house Method GL-OR-9

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Ambient air (cont'd)	Volatile organic compounds (cont'd):  cis-2-Hexene cis-3-Methyl-2-Pentene Methylcyclopentane 2,4-Dimethylpentane 2,2,3-Trimethylbutane 1-Methylcyclopentene Cyclohexane 2-Methylhexane 2,3-Dimethylpentane Cyclohexene 3-Methylhexane Dibromomethane Bromodichloromethane 1-Heptene 2,2,4-Trimethylpentane trans-3-Heptene Heptane cis-3-Heptene trans-2-Heptene cis-2-Heptene 2,2-Dimethylhexane Methylcyclohexane 2,5-Dimethylhexane 2,4-Dimethylhexane Bromotrichloromethane 2,3,4-Trimethylpentane 2-Methylheptane 1-Methylcyclohexene 4-Methylheptane 3-Methylheptane Dibromochloromethane 2,2,5-Trimethylhexane 1-Octene Octane trans-1,2-Dimethylcyclohexane cis-1,2-Dimethylcyclohexane 1,2,4-Trimethylcyclohexane Bromoform 1,4-Dichlorobutane	In-house Method GL-OR-9

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Ambient air (cont'd)	Volatile organic compounds (cont'd):  1-Nonene Nonane Iso-Propylbenzene 3,6-Dimethyloctane m-/p-Chlorotoluene n-Propylbenzene o-Chlorotoluene 3-Ethyltoluene 2-Ethyltoluene Tert-Butylbenzene 1-Decene Decane Iso-Butylbenzene Sec-Butylbenzene 1,2,3-Trimethylbenzene p-Cymene Indan 1,3-Diethylbenzene 1,4-Diethylbenzene n-Butylbenzene 1,2-Diethylbenzene Undecane 1,2,3,5-Tetramethylbenzene 1,2,4,5-Tetramethylbenzene Naphthalene Dodecane Hexylbenzene	In-house Method GL-OR-9
Ambient air collected on PUF and filter	Perfluorooctanesulfonic acid (PFOS) and Perfluorooctanoic acid (PFOA)	In-house Method GL-OR-141

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Ambient air collected on PUF and resin	Polycyclic aromatic hydrocarbons:  Acenaphthene Acenaphthylene Anthracene Benz(a)anthracene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(g,h,i)perylene Benzo(a)pyrene Benzo(e)pyrene Chrysene Dibenzo(a,h)anthracene Fluoranthene Fluorene Indeno(1,2,3-cd)pyrene Naphthalene Phenanthrene Pyrene	In-house Method GL-OR-10
Asbestos bulk samples	Identification  Asbestos containing materials - amosite, crocidolite, chrysotile, fibrous actinolite, fibrous anthophyllite, fibrous tremolite	In-house Method GL-AB-1  Air Pollution Control Ordinance, Section 2 (G.N. 884, Gazette Published on 14/02/2014 No. 07 Vol. 18) Method for Determinating Asbestos Containing Material under Section 2 of the Air Pollution Control Ordinance
Asbestos air-borne fibres and dust	Air sampling - clearance sampling	In-house Method GL-AB-2
Asbestos air-borne samples	Fibre counting - clearance indicator	MDHS 39/4

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Incinerator fly ash	Polychlorinated dibenzo-p-dioxins and polychlorinated dibenzofurans :  2,3,7,8-TCDF 2,3,7,8-TCDD 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF 1,2,3,4,6,7,8-HpCDD OCDF OCDD	In-house Method GL-OR-72 (HRGC-HRMS)
Fly ash	Dioxin-like Polychlorinated Biphenyl (PCB) congeners: 3,3',4,4'-Tetrachlorobiphenyl (PCB #77) 3,4,4',5-Tetrachlorobiphenyl (PCB #81) 2,3,3',4,4'-Pentachlorobiphenyl (PCB #105) 2,3,4,4',5-Pentachlorobiphenyl (PCB #114) 2,3',4,4',5-Pentachlorobiphenyl (PCB #118) 2',3,4,4',5-Pentachlorobiphenyl (PCB #123) 3,3',4,4',5-Pentachlorobiphenyl (PCB #126) 2,3,3',4,4',5-Hexachlorobiphenyl (PCB #156) 2,3,3',4,4',5'-Hexachlorobiphenyl (PCB #157) 2,3',4,4',5,5'-Hexachlorobiphenyl (PCB #167) 3,3',4,4',5,5'-Hexachlorobiphenyl (PCB #169) 2,3,3',4,4',5,5'-Heptachlorobiphenyl (PCB #189)	In-house Method GL-OR-66 (HRGC-HRMS)

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Water and Wastewater	Physical Examination :-  - Chlorophyll-a & Pheo-pigments  - Colour  - Conductivity  - Dissolved Oxygen  - pH Value  - Settleable Solids  - Total Solids dried at 103-105°C  - Total Suspended Solids dried at 103-105°C  - Total Volatile Solids and Volatile Suspended Solids ignited at 550°C  - Turbidity	  In-house Method GL-OR-34  In-house Method GL-PH-12 (Lovibond Tintometer)  BS 2690 Part 9: 1970: Section 6  APHA 17e 4500-O G APHA 20e 4500-OG  APHA 17e 4500-H <sup>+</sup> B APHA 20e 4500- H <sup>+</sup> B  APHA 17e 2540F  In-house Method GL-PH-19  APHA 17e 2540D APHA 22e 2540D In-house Method GL-PH-23  In-house Method GL-PH-19 In-house Method GL-PH-23  In-house Method GL-PH-20

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Water and Wastewater (cont'd)	Trace Metals :-  - Digestion/Sample Preparation Procedures  - Cadmium  - Selenium  - Arsenic  - Mercury  - Antimony, Barium, Beryllium, Boron, Cadmium, Chromium, Copper, Iron, Manganese, Nickel, Lead, Silver, Thallium, Vanadium, Zinc	APHA 17e 3030A, F3.b, 3112B, 3113B, 4a.3 3114B, 4d APHA 22e 3030A, 3030B, F3b In-house Method GL-TE-50  APHA 17e 3113 APHA 22e 3113 (Electrothermal AAS)  APHA 17e 3114 with modification APHA 22e 3114 with modification (Hydride Generation AAS)  APHA 17e 3114 with modification APHA 22e 3114 with modification (Hydride Generation AAS)  APHA 17e 3112 with modification APHA 22e 3112 with modification (Cold vapour AAS)  APHA 17e 3120 APHA 22e 3120 (ICP-AES)

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Water and Wastewater (cont'd)	Trace Metals :- (cont'd)  - Aluminium, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Mercury, Molybdenum, Nickel, Selenium, Silver, Thallium, Tin, Vanadium, Zinc  - Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Nickel, Potassium, Silver, Sodium, Thallium, Vanadium, Zinc  Non - metallic Constituents :-  - Chloride  - Cyanide  - Fluoride  - Nitrogen (Ammonia)  - Nitrogen (Nitrate)  - Nitrogen (Nitrite)	In-house Method GL-TE-63 (ICP-MS)  In-house Method GL-TE-60 (ICP-AES)  APHA 17e and 20e 4500-Cl <sup>-</sup> B & D In-house Method GL-IN-43 (FIA)  ASTM D2036-89A ASTM D2036-98A In-house Method GL-IN-42 (FIA)  APHA 17e 4500-F C APHA 20e 4500-F C In-house Method GL-IN-47 (FIA)  APHA 17e 4500-NH <sub>3</sub> B, C APHA 20e 4500-NH <sub>3</sub> B, F In-house Method GL-IN-15 (FIA)  APHA 17e and 20e 4500-NO <sub>3</sub> <sup>-</sup> E In-house Method GL-IN-18 (FIA)  APHA 17e and 20e 4500-NO <sub>2</sub> <sup>-</sup> B In-house Method GL-IN-18 (FIA)



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Water and Wastewater (cont'd)	Non - metallic Constituents :- (cont'd)  - Nitrogen (Total Kjeldahl)  - Phosphorus (Total)  - Phosphorus (Reactive)  - Phosphorus (Dissolved & Reactive)  - Silica  - Sulphate  - Total Sulphide  - Total Residual Chlorine  Organic Pollutants :-  - Oil & Grease  - Hydrocarbons  - Total Organic Carbon  - Oxygen-Demand (Biochemical)  - Oxygen-Demand (Chemical)	APHA 20e 4500-Norg D In-house Method GL-IN-14, GL-IN-15 (FIA)  APHA 20e 4500-P B & E ASTM D515-88A In-house Method GL-IN-14, GL-IN-16 (FIA)  APHA 17e and 20e 4500-P E  In-house Method GL-IN-16 (FIA)  In-house Method GL-IN-17 (FIA)  APHA 17e and 20e 4500-SO <sub>4</sub> <sup>2-</sup> C In-house Method GL-IN-39 (Ion Chromatography)  APHA 17e 4500-S <sup>2-</sup> B, C & D APHA 20e 4500-S <sup>2-</sup> B, C & D  APHA 17e 4500-Cl G APHA 20e 4500-Cl G  APHA 20e 5520B In-house Method GL-OR-28  APHA 20e 5520F  In-house Method GL-OR-32 (TOC)  BS 6068: Section 2.14: 1984 BS 6068: Section 2.63: 1998 EN 1899-1: 1998  ASTM D 1252-88 A and B ASTM D 1252-00 A and B

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7/F, Homantin Government Offices, 88 Chung Hau Street, Homantin, Kowloon, Hong Kong.

香港九龍何文田忠孝街八十八號何文田政府合署七樓

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

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香港九龍何文田忠孝街八十八號何文田政府合署七樓

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



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香港九龍何文田忠孝街八十八號何文田政府合署七樓

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

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7/F, Homantin Government Offices, 88 Chung Hau Street, Homantin, Kowloon, Hong Kong.

香港九龍何文田忠孝街八十八號何文田政府合署七樓

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

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7/F, Homantin Government Offices, 88 Chung Hau Street, Homantin, Kowloon, Hong Kong.

香港九龍何文田忠孝街八十八號何文田政府合署七樓

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

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香港九龍何文田忠孝街八十八號何文田政府合署七樓

<b>Environmental Testing 環境測試</b>		
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Biota	<p>Trace Metals :</p> <p>- Digestion Procedure</p> <p>- Aluminium, Arsenic, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Mercury, Nickel, Vanadium, Zinc</p> <p>Dioxin-like Polychlorinated Biphenyl (PCB) congeners:            3,3',4,4'-Tetrachlorobiphenyl (PCB #77)            3,4,4',5-Tetrachlorobiphenyl (PCB #81)            2,3,3',4,4'-Pentachlorobiphenyl (PCB #105)            2,3,4,4',5-Pentachlorobiphenyl (PCB #114)            2,3',4,4',5-Pentachlorobiphenyl (PCB #118)            2',3,4,4',5-Pentachlorobiphenyl (PCB #123)            3,3',4,4',5-Pentachlorobiphenyl (PCB #126)            2,3,3',4,4',5-Hexachlorobiphenyl (PCB #156)            2,3,3',4,4',5'-Hexachlorobiphenyl (PCB #157)            2,3',4,4',5,5'-Hexachlorobiphenyl (PCB #167)            3,3',4,4',5,5'-Hexachlorobiphenyl (PCB #169)            2,3,3',4,4',5,5'-Heptachlorobiphenyl (PCB #189)</p>	<p>In-house Method GL-TE-10 (Acid Digestion Procedure for Biota)</p> <p>In-house Method GL-TE-65 (ICP-MS)</p> <p>In-house Method GL-OR-67 (HRGC-HRMS)</p>



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香港九龍何文田忠孝街八十八號何文田政府合署七樓

<b>Environmental Testing 環境測試</b>		
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Biota	Polychlorinated Biphenyl (PCB) Congeners:  2,4'-Dichlorobiphenyl (PCB #8) 2,2',5-Trichlorobiphenyl (PCB #18) 2,4,4'-Trichlorobiphenyl (PCB #28) 2,4',5-Trichlorobiphenyl (PCB #31) 2,2'3,5'-Tetrachlorobiphenyl (PCB #44) 2,2',5,5'-Tetrachlorobiphenyl (PCB #52) 2,3',4,4'-Tetrachlorobiphenyl (PCB 66) 3,3',4,4'-Tetrachlorobiphenyl (PCB #77) 3,4,4',5-Tetrachlorobiphenyl (PCB #81) 2,2',4,5,5'-Pentachlorobiphenyl (PCB #101) 2,3,3',4,4'-Pentachlorobiphenyl (PCB #105) 2,3,4,4',5-Pentachlorobiphenyl (PCB #114) 2,3',4,4',5-Pentachlorobiphenyl (PCB #118) 2',3,4,4',5-Pentachlorobiphenyl (PCB #123) 3,3',4,4',5-Pentachlorobiphenyl (PCB #126) 2,2',3,3',4,4'-Hexachlorobiphenyl (PCB #128) 2,2',3,4,4',5'-Hexachlorobiphenyl (PCB #138) 2,2',3,4',5',6-Hexachlorobiphenyl (PCB #149) 2,2',4,4',5,5'-Hexachlorobiphenyl (PCB #153) 2,3,3',4,4',5-Hexachlorobiphenyl (PCB #156) 2,3,3',4,4',5'-Hexachlorobiphenyl (PCB #157) 2,3',4,4',5,5'-Hexachlorobiphenyl (PCB #167) 3,3',4,4',5,5'-Hexachlorobiphenyl (PCB #169) 2,2',3,3',4,4',5-Heptachlorobiphenyl (PCB #170) 2,2',3,4,4',5,5'-Heptachlorobiphenyl (PCB #180) 2,2',3,4',5,5',6-Heptachlorobiphenyl (PCB #187) 2,3,3',4,4',5,5'-Heptachlorobiphenyl (PCB #189)	In-house Method GL-OR-56 (GC-MS)

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香港九龍何文田忠孝街八十八號何文田政府合署七樓

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

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7/F, Homantin Government Offices, 88 Chung Hau Street, Homantin, Kowloon, Hong Kong.

香港九龍何文田忠孝街八十八號何文田政府合署七樓

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

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香港九龍何文田忠孝街八十八號何文田政府合署七樓

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

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香港九龍何文田忠孝街八十八號何文田政府合署七樓

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

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香港九龍何文田忠孝街八十八號何文田政府合署七樓

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



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7/F, Homantin Government Offices, 88 Chung Hau Street, Homantin, Kowloon, Hong Kong.

香港九龍何文田忠孝街八十八號何文田政府合署七樓

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



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

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

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香港九龍何文田忠孝街八十八號何文田政府合署七樓

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

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

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

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

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<b>Miscellaneous 雜類</b>		
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Mainstream smoke of cigarettes	Determination of Total and Nicotine-free Dry Particulate Matter Using a Routine Analytical Smoking Machine	ISO 4387:2019 (E)
	Determination of Nicotine in Total Particulate Matter from the Mainstream Smoke	ISO 10315:2021(E)
Biodiesel	Water content	EN ISO 12937: 2000
	Oxidation Stability	EN 14112: 2003
Fuel and petroleum products	Sulphur content	EN ISO 20884: 2004
		EN ISO 20884: 2011

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

\* INCLUDING PROCEDURES FOR DETERMINING ASSIGNED VALUES AND THE UNCERTAINTY



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

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

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

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

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香港九龍九龍灣祥業街工務中央試驗所大樓

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

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

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

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

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

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



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Public Works Central Laboratory Building, Cheung Yip Street, Kowloon Bay, Kowloon, Hong Kong.

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



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<b>Toys and Children's Products 玩具及兒童產品</b>		
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Toys	Physical and mechanical tests :-  Safety requirements and test methods	BS EN 71-1: 2014 + A1:2018 * <Excluding the following> 4.15.1.3 (dynamic strength), 4.15.1.5, 4.15.5.5, 4.18 (test to EN 15649-3), 4.20.2.5, 4.20.2.8, 4.20.2.11, 4.20.2.12 and 4.26 (test to EN 14682)

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

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11/F and 12/F, Lai Chi Kok Government Offices, 19 Lai Wan Road, Lai Chi Kok, Kowloon, Hong Kong.

香港九龍荔枝角荔灣道十九號荔枝角政府合署十一及十二樓

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

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<b>Chemical Testing 化學測試</b>		
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	Tests for Dangerous Goods (cont'd) :-	
Sodium Hypochlorite Solution	a. Flame test b. Test with silver nitrate solution c. Test with thallos sulphate solution d. Available chlorine content	In-house Method GL-DG-3
Potassium Cyanide and Sodium Cyanide	a. Flame test b. Test with chloramine-T and pyridine-barbituric acid solution c. Cyanides content	In-house Method GL-DG-11
Ammonia	Identification of alkaline gas	In-house Method GL-DG-15
Hydrogen Peroxide Solution	a. Test with diethyl ether and potassium chromate solution b. Hydrogen peroxide content	In-house Method GL-DG-5
Hydrochloric Acid	a. pH test b. Test with silver nitrate solution	In-house Method GL-DG-6
Sodium Hydroxide and Potassium Hydroxide	a. pH test b. Flame test	In-house Method GL-DG-8
Flammable liquids	Flash point a. Less than 23°C b. 23°C to 100°C	In-house Method GL-DG-2 (Flash Point)

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Environmental Testing 環境測試		
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Water and Wastewater	Microbial Indicators :  E. coli count    Faecal Coliform count	DoE (1983) The Bacteriological Examination of Drinking Water Supplies, 1982 Sections 7.8 and 7.9 Membrane Filtration Procedure: Section 7.8, and 7.9.4.2 Bacterial Confirmation: Section 7.9.4.4 and in-situ urease test  DoE (1983) The Bacteriological Examination of Drinking Water Supplies, 1982 Sections 7.8 and 7.9 Membrane Filtration Procedure: Sections 7.8, and 7.9.4.2; Bacterial Confirmation: Section 7.7.6.3

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<b>Food 食品</b>		
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Formulated Milk Powder	Microbiological assay:-  Vitamin B5 (Pantothenic acid)  Vitamin B7 (Biotin)  Vitamin B9 (Folic acid)  Vitamin B12 (Cobalamins)	  In house method GL-CO-41 (AOAC-RI Licence No. 100904)  In house method GL-CO-30 (AOAC-RI Licence No. 101001)  In house method GL-CO-31 (AOAC-RI Licence No. 100903)  In house method GL-CO-32 (AOAC-RI Licence No. 101002)

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

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香港九龍荔枝角荔灣道十九號荔枝角政府合署十一及十二樓

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

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4-5/F and 8/F, 850-870 Lai Chi Kok Road, Cheung Sha Wan, Kowloon, Hong Kong

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<b>Chemical Testing 化學測試</b>		
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Seepage samples	Detection of: - Brilliant Scarlet 4R, Orange II, Erythrosin B, Quinine, Tartrazine, Brilliant Blue FCF, Fast Green FCF, Allura Red AC, Eosin Yellowish, Rhodamine WT, Fluorescein Sodium, Sulforhodamine B, Rhodamine B, Sulforhodamine G	In-house method GL-OR-153 (HPLC-DAD/FLD and LC-MS/MS)



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<b>Chinese Medicine 中藥</b>		
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Chinese Herbal Medicines	Identification of the following species  - <i>Cordyceps sinensis</i>	In-house Method GL-CO-43 (Polymerase Chain Reaction / DNA Sequencing)

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

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<b>Food 食品</b>		
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General foodstuff	Parameters for deteriorated food :-	
	- Total volatile nitrogen	In-house Method GL-CP-2
	- pH	In-house Method GL-CP-3
	- Titratable acidity and titratable alkalinity	In-house Method GL-CP-4
	Nutrition labelling:	
	Total fat	In-house Method GL-CO-14 (Acid hydrolysis)
	Protein	In-house Method GL-CO-15 (Kjeldahl method)
	Moisture	In-house Method GL-CO-17 (Thermogravimetry)
	Ash	In-house Method GL-CO-17 (Thermogravimetry)
	Saturated fatty acids (C <sub>4:0</sub> , C <sub>6:0</sub> , C <sub>8:0</sub> , C <sub>10:0</sub> , C <sub>12:0</sub> , C <sub>14:0</sub> , C <sub>15:0</sub> , C <sub>16:0</sub> , C <sub>17:0</sub> , C <sub>18:0</sub> , C <sub>20:0</sub> , C <sub>21:0</sub> , C <sub>22:0</sub> , C <sub>23:0</sub> , C <sub>24:0</sub> )	AOAC Official Method 996.06 (2005) (Hydrolytic extraction gas chromatography)
	Trans fatty acids (C <sub>14:1T</sub> (9- <i>trans</i> ), C <sub>16:1T</sub> (9- <i>trans</i> ), C <sub>18:1T</sub> (total), C <sub>18:2TT</sub> (9,12- <i>trans</i> ), C <sub>18:2T</sub> (9- <i>cis</i> ,12- <i>trans</i> ), C <sub>18:2T</sub> (9- <i>trans</i> ,12- <i>cis</i> ), C <sub>20:1T</sub> (11- <i>trans</i> ), C <sub>22:1T</sub> (13- <i>trans</i> ))	AOAC Official Method 996.06 (2005) (Hydrolytic extraction gas chromatography)
	Monounsaturated fatty acids (C <sub>14:1</sub> (9- <i>cis</i> ), C <sub>15:1</sub> (10- <i>cis</i> ), C <sub>16:1</sub> (9- <i>cis</i> ), C <sub>17:1</sub> (10- <i>cis</i> ), C <sub>18:1</sub> (6- <i>cis</i> ), C <sub>18:1</sub> (9- <i>cis</i> ), C <sub>18:1</sub> (11- <i>cis</i> ), C <sub>18:1</sub> (12- <i>cis</i> ), C <sub>20:1</sub> (5- <i>cis</i> ), C <sub>20:1</sub> (8- <i>cis</i> ), C <sub>20:1</sub> (11- <i>cis</i> ), C <sub>22:1</sub> (13- <i>cis</i> ), C <sub>24:1</sub> (15- <i>cis</i> ))	AOAC Official Method 996.06 (2005) (Hydrolytic extraction gas chromatography)

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<b>Food 食品</b>		
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General foodstuff (cont'd)	<p>Nutrition labelling (Cont'd) :</p> <p>Polyunsaturated fatty acids (C<sub>18:2</sub> (9,12-<i>cis</i>), C<sub>18:3</sub> (6,9,12-<i>cis</i>), C<sub>18:3</sub> (9,12,15-<i>cis</i>), C<sub>20:2</sub> (11,14-<i>cis</i>), C<sub>20:3</sub> (8,11,14-<i>cis</i>), C<sub>20:3</sub> (11,14,17-<i>cis</i>) C<sub>20:4</sub> (5,8,11,14-<i>cis</i>), C<sub>22:2</sub> (13,16-<i>cis</i>) C<sub>20:5</sub> (5,8,11,14,17-<i>cis</i>), C<sub>22:3</sub> (13,16,19-<i>cis</i>) C<sub>22:4</sub> (7,10,13,16-<i>cis</i>), C<sub>22:5</sub> (4,7,10,13,16-<i>cis</i>), C<sub>22:5</sub> (7,10,13,16,19-<i>cis</i>), C<sub>22:6</sub> (4,7,10,13,16,19-<i>cis</i>))</p> <p>Sugars :- glucose, galactose, fructose, sucrose, maltose, lactose</p> <p>Cholesterol</p> <p>Total Dietary Fibre</p> <p>Energy and Carbohydrates</p>	<p>AOAC Official Method 996.06 (2005) (Hydrolytic extraction gas chromatography)</p> <p>In-house Method GL-CO-20 (HPLC-RI)</p> <p>AOAC Official Method 994.10 (2005) (GC-FID)</p> <p>AOAC Official Method 985.29 (2005) (Enzymatic-Gravimetric Method)</p> <p>In-house method GL-CO-54 (by calculation)</p>

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<b>Food 食品</b>		
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Milk and dairy products	Composition and quality of milk :-  - Total solids  - Milk fat  - Titratable acidity  Composition of dried milk :-  - Moisture  - Fat  Composition of evaporated and condensed milk :-  - Total solids  - Fat  - Sucrose  Composition of ice-cream :-  - Milk solids not fat  - Fat  - Sucrose  Composition and quality of cream :-  - Fat, acidity  Composition of cheese and butter :-  - Fat, total solids, moisture	In-house Method GL-CO-10(A)  In-house Method GL-CO-10(A)  In-house Method GL-CO-10(A)   In-house Method GL-CO-1(A)  In-house Method GL-CO-1(A)   In-house Method GL-CO-11(A)  In-house Method GL-CO-11(A)  In-house Method GL-CO-11(A)   In-house Method GL-CO-12(A)  In-house Method GL-CO-12(A)  In-house Method GL-CO-12(A)   In-house Method GL-CO-7   In-house Method GL-CO-8

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香港九龍長沙灣荔枝角道 850-870 號四、五及八樓

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

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	<p>Tests for genetically modified organisms (GMO): -</p> <p>The laboratory has been accredited to modify and validate methods for GMO testing in food matrices [Remark : the list of items below about determination of GM contents in food matrices may not be exhaustive. For the most up-to-date list, please contact the HKAS Executive.]</p>	<p>In-house Protocol TD/MWI/039 and TD/MWI/041</p>
Soy, maize, rice, papaya, tomato and their derived foodstuff	<p>Qualitative screening of transgenic traits using part of the sequence of :-</p> <ul style="list-style-type: none"> <li>- CaMV 35S promoter</li> <li>- NOS terminator from <i>Agrobacterium tumefaciens</i></li> </ul>	<p>In-house Methods GL-GM-18 and GL-GM-20 (Polymerase Chain Reaction/Gel Electrophoresis)</p>
Soy and soy derived foodstuff	<p>Qualitative screening of transgenic trait Roundup Ready Soya (RRS) using part of the sequence of :-</p> <ul style="list-style-type: none"> <li>- Le1 gene</li> <li>- CaMV 35S promoter &amp; CTP sequence of <i>P. hybrida</i> EPSPS gene</li> <li>- EPSPS gene from CP4 strain &amp; NOS-terminator</li> </ul>	<p>In-house Methods GL-GM-18 and GL-GM-20 (Polymerase Chain Reaction/Gel Electrophoresis)</p>
Maize and maize derived foodstuff	<p>Qualitative screening of transgenic trait Bt176 using part of the sequence of:-</p> <ul style="list-style-type: none"> <li>- MHMG gene</li> <li>- Maize CDPK promoter &amp; synthetic cryIA (b) gene</li> </ul> <p>Qualitative screening of transgenic trait Bt11 using part of the sequence of:-</p> <ul style="list-style-type: none"> <li>- MHMG gene</li> <li>- IVS2 from adh 1-1S &amp; synthetic pat gene</li> <li>- IVS6 from adh 1-1S &amp; synthetic cryIA (b) gene</li> </ul>	<p>In-house Methods GL-GM-18 and GL-GM-20 (Polymerase Chain Reaction/Gel Electrophoresis)</p>

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Maize and maize derived foodstuff (cont'd)	<p>Tests for GMO (cont'd): -</p> <p>Qualitative screening of transgenic trait MON810 using part of the sequence of:- - MHMG gene - junction of host maize genome &amp; enhanced CaMV 35S promoter - hsp70 &amp; synthetic cryIA (b) gene</p> <p>Qualitative screening of transgenic trait GA21 using part of the sequence of:- - MHMG gene - OTP &amp; m-EPSPS gene from maize</p> <p>Qualitative screening of transgenic trait T25 using part of the sequence of:- - MHMG gene - pat gene from <i>Streptomyces viridochromogene</i> &amp; terminator from the 35S gene from CaMV</p> <p>Qualitative screening of transgenic trait TC1507 using part of the sequence of:- - MHMG gene - TC1507 specific sequence</p> <p>Qualitative screening of transgenic trait NK603 using part of the sequence of:- - MHMG gene - Maize genome/rice actin 1 promoter - 3' insert-to-plant junction</p> <p>Qualitative screening of transgenic trait CBH351 using part of the sequence of:- - MHMG gene - CBH351 specific sequence</p> <p>Qualitative screening of transgenic trait MON863 using part of the sequence of:- - MHMG gene - 5' insert-to-plant junction</p>	In-house Methods GL-GM-18 and GL-GM-20 (Polymerase Chain Reaction/Gel Electrophoresis)



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Papaya and papaya derived foodstuff	Tests for GMO (cont'd): -  Qualitative screening of transgenic papaya line 55-1 using part of the sequence of:- - Papain gene - NOS-terminator and CaMV-35S promoter - CaMV-35S and GUS gene	In-house Methods GL-GM-18 and GL-GM-20 (Polymerase Chain Reaction/Gel Electrophoresis)
Rice and rice derived foodstuff	Qualitative screening of transgenic trait LLRICE62 using part of the sequence of:- - P35S::bar DNA - 3' insert-to-plant junction - SPS gene	In-house Methods GL-GM-18 and GL-GM-20 (Polymerase Chain Reaction/Gel Electrophoresis)

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Soy and soy derived foodstuff	<p>Tests for GMO (cont'd): -</p> <p>Qualitative screening of transgenic trait Roundup Ready Soya (RRS) using part of the sequence of :- - Le1 gene - 5' insert-to-plant junction</p> <p>Qualitative screening of transgenic trait MON89788 using part of the sequence of :- - Le1 gene - 5' insert-to-plant junction</p> <p>Qualitative screening of transgenic trait A2704-12 using part of the sequence of :- - Le1 gene - Junction between a 3' bla sequence and a 5' bla sequence</p> <p>Qualitative screening of transgenic trait DP-356043-5 using part of the sequence of :- - Le1 gene - 5' insert-to-plant junction</p> <p>Qualitative screening of transgenic trait DP-305423-1 using part of the sequence of :- - Le1 gene - 3' insert-to-plant junction</p> <p>Qualitative screening of transgenic trait DAS-44406-6 using part of the sequence of:- - Le1 gene - 5' insert-to-plant junction</p> <p>Qualitative screening of transgenic trait DAS-68416-4 using part of the sequence of:- - Le1 gene - 3' insert-to-plant junction</p> <p>Qualitative screening of transgenic trait DAS-81419-2 using part of the sequence of:- - Le1 gene - 5' insert-to-plant junction</p>	In-house Methods GL-GM-18 and GL-GM-20 (Real-time PCR method)

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Soy and soy derived foodstuff	<p>Tests for GMO (cont'd): -</p> <p>Qualitative screening of transgenic trait MON87708 using part of the sequence of:- - Le1 gene - 3' insert-to-plant junction</p> <p>Qualitative screening of transgenic trait A5547-127 using part of the sequence of:- - Le1 gene - 5' insert-to-plant junction</p> <p>Qualitative screening of transgenic trait FG72 using part of the sequence of:- - Le1 gene - 3' insert-to-plant junction</p>	In-house Methods GL-GM-18 and GL-GM-20 (Real-time PCR method)
Maize and maize derived foodstuff	<p>Qualitative screening of transgenic trait Bt176 using part of the sequence of:- - Zm Adh1 gene - 3' insert-to-plant junction</p> <p>Qualitative screening of transgenic trait Bt11 using part of the sequence of:- - Zm Adh1 gene - 5' insert-to-plant junction</p> <p>Qualitative screening of transgenic trait MON810 using part of the sequence of:- - MHMG gene - 5' insert-to-plant junction</p> <p>Qualitative screening of transgenic trait GA21 using part of the sequence of:- - MHMG gene - 5' insert-to-plant junction</p> <p>Qualitative screening of transgenic trait T25 using part of the sequence of:- - Zm Adh1 gene - 3' insert-to-plant junction</p>	In-house Methods GL-GM-18 and GL-GM-20 (Real-time PCR method)

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Maize and maize derived foodstuff	<p>Tests for GMO (cont'd): -</p> <p>Qualitative screening of transgenic trait TC1507 using part of the sequence of:- - MHMG gene - TC1507 specific sequence</p> <p>Qualitative screening of transgenic trait NK603 using part of the sequence of:- - Zm Adh1 gene - 3' insert-to-plant junction</p> <p>Qualitative screening of transgenic trait CBH351 using part of the sequence of:- - Zm Adh1 gene - 3' insert-to-plant junction</p> <p>Qualitative screening of transgenic trait MON863 using part of the sequence of:- - MHMG gene - 5' insert-to-plant junction</p> <p>Qualitative screening of transgenic trait 3272 using part of the sequence of:- - MHMG gene - 5' insert-to-plant junction</p> <p>Qualitative screening of transgenic trait MIR604 using part of the sequence of:- - Zm Adh1 gene - 5' insert-to-plant junction</p> <p>Qualitative screening of transgenic trait MON88017 using part of the sequence of:- - MHMG gene - 3' insert-to-plant junction</p> <p>Qualitative screening of transgenic trait DAS-59122 using part of the sequence of:- - MHMG gene - insert-to-plant junction</p>	In-house Methods GL-GM-18 and GL-GM-20 (Real-time PCR method)

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Maize and maize derived foodstuff (cont'd)	<p>Tests for GMO (cont'd): -</p> <p>Qualitative screening of transgenic trait MON89034 using part of the sequence of:- - MHMG gene - 3' insert-to-plant junction</p> <p>Qualitative screening of transgenic trait MIR162 using part of the sequence of:- - Zm Adh1 gene - 3' insert-to-plant junction</p> <p>Qualitative screening of transgenic trait DAS-40278-9 using part of the sequence of:- - MHMG gene - 5' insert-to-plant junction</p> <p>Qualitative screening of transgenic trait 98140 using part of the sequence of:- - MHMG gene - 5' insert-to-plant junction</p> <p>Qualitative screening of transgenic trait MON87427 using part of the sequence of:- - MHMG gene - 5' insert-to-plant junction</p> <p>Qualitative screening of transgenic trait 5307 using part of the sequence of:- - Zm Adh1 gene - 3' insert-to-plant junction</p> <p>Qualitative screening of transgenic trait DP-004114-3 using part of the sequence of:- - MHMG gene - 5' insert-to-plant junction</p> <p>Qualitative screening of transgenic trait MON87411 using part of the sequence of:- - MHMG gene - 3' insert-to-plant junction</p>	In-house Methods GL-GM-18 and GL-GM-20 (Real-time PCR method)

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Maize and maize derived foodstuff (cont'd)	Tests for GMO (cont'd): -  Qualitative screening of transgenic trait MON87460 using part of the sequence of:- - MHMG gene - 5' insert-to-plant junction	In-house Methods GL-GM-18 and GL-GM-20 (Real-time PCR method)
Rapeseed and rapeseed derived foodstuff	Qualitative screening of transgenic trait DP-073496-4 using part of the sequence of:- - FatA(A) gene - 5' insert-to-plant junction  Qualitative screening of transgenic trait GT73/RT73 using part of the sequence of:- - CruA gene - 3' insert-to-plant junction	In-house Methods GL-GM-18 and GL-GM-20 (Real-time PCR method)
Rice and rice derived foodstuff	Qualitative screening of transgenic trait Bt63 using part of the sequence of:- - RBE-4 gene - 3' insert-to-plant junction  Qualitative screening of transgenic trait LLRICE62 using part of the sequence of:- - PLD gene - 3' insert-to-plant junction	In-house Methods GL-GM-18 and GL-GM-20 (Real-time PCR method)
Soy, maize, potato, rapeseed and their derived foodstuff	Qualitative screening of transgenic traits using part of the sequence of :- - CaMV 35S promoter - NOS terminator from <i>Agrobacterium tumefaciens</i>  - -	In-house Methods GL-GM-18 and GL-GM-20 (Real-time PCR method)

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Soy and soy derived foodstuff	<p>Tests for GMO (cont'd): -</p> <p>Quantitative tests of transgenic trait Roundup Ready Soya (RRS) using part of the sequence of :- - Le1 gene - 5' insert-to-plant junction</p> <p>Quantitative tests of transgenic trait Roundup Ready Soya (RRS) using part of the sequence of :- - The junction between CTP4 from <i>P. hyrida</i> And EPSPS gene</p> <p>Quantitative tests of transgenic trait MON89788 using part of the sequence of :- - Le1 gene - 5' insert-to-plant junction</p> <p>Quantitative tests of transgenic trait A2704-12 using part of the sequence of :- - Le1 gene - Junction between a 3' bla sequence and a 5' bla sequence</p> <p>Quantitative tests of transgenic trait DP-356043-5 using part of the sequence of :- - Le1 gene - 5' insert-to-plant junction</p> <p>Quantitative tests of transgenic trait DP-305423-1 using part of the sequence of :- - Le1 gene - 3' insert-to-plant junction</p> <p>Quantitative tests of transgenic trait DAS-44406-6 using part of the sequence of:- - Le1 gene - 5' insert-to-plant junction</p> <p>Quantitative test of transgenic trait DAS-68416-4 using part of the sequence of:- - Le1 gene - 3' insert-to-plant junction</p>	In-house Methods GL-GM-19 and GL-GM-20 (Real-time PCR method)

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Soy and soy derived foodstuff (cont'd)	Tests for GMO (cont'd): -  Quantitative test of transgenic trait DAS-81419-2 using part of the sequence of:- - Le1 gene - 5' insert-to-plant junction  Quantitative tests of transgenic trait FG72 using part of the sequence of:- - Le1 gene - 3' insert-to-plant junction  Quantitative tests of transgenic trait MON87708 using part of the sequence of:- - Le1 gene - 3' insert-to-plant junction  Quantitative tests of transgenic trait A5547-127 using part of the sequence of:- - Le1 gene - 5' insert-to-plant junction	In-house Methods GL-GM-19 and GL-GM-20 (Real-time PCR method)
Maize and maize derived foodstuff	Quantitative tests of transgenic trait Bt176 using part of the sequence of:- - Zm Adh1 gene - 3' insert-to-plant junction  Quantitative tests of transgenic trait Bt11 using part of the sequence of:- - Zm Adh1 gene - 5' insert-to-plant junction  Quantitative tests of transgenic trait MON810 using part of the sequence of:- - MHMG gene - 5' insert-to-plant junction  Quantitative tests of transgenic trait MON810 using part of the sequence of:- - The junction between hsp70 gene and synthetic cryIA(b) gene	In-house Methods GL-GM-19 and GL-GM-20 (Real-time PCR method)



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Maize and maize derived foodstuff	<p>Tests for GMO (cont'd): -</p> <p>Quantitative tests of transgenic trait TC1507 using part of the sequence of:- - MHMG gene - TC1507 specific sequence</p> <p>Quantitative tests of transgenic trait NK603 using part of the sequence of:- - Zm Adh1 gene - 3' insert-to-plant junction</p> <p>Quantitative tests of transgenic trait GA21 using part of the sequence of:- - MHMG gene - 5' insert-to-plant junction</p> <p>Quantitative tests of transgenic trait MON863 using part of the sequence of:- - MHMG gene - 5' insert-to-plant junction</p> <p>Quantitative tests of transgenic trait 3272 using part of the sequence of:- - MHMG gene - 5' insert-to-plant junction</p> <p>Quantitative tests of transgenic trait MIR604 using part of the sequence of:- - Zm Adh1 gene - 5' insert-to-plant junction</p> <p>Quantitative tests of transgenic trait MON88017 using part of the sequence of:- - MHMG gene - 3' insert-to-plant junction</p> <p>Quantitative tests of transgenic trait DAS-59122 using part of the sequence of:- - MHMG gene - insert-to-plant junction</p>	In-house Methods GL-GM-19 and GL-GM-20 (Real-time PCR method)

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Maize and maize derived foodstuff (cont'd)	<p>Tests for GMO (cont'd): -</p> <p>Quantitative tests of transgenic trait MON89034 using part of the sequence of:- - MHMG gene - 3' insert-to-plant junction</p> <p>Quantitative tests of transgenic trait MIR162 using part of the sequence of:- - Zm Adh1 gene - 3' insert-to-plant junction</p> <p>Quantitative test of transgenic trait DAS-40278-9 using part of the sequence of:- - MHMG gene - 5' insert-to-plant junction</p> <p>Quantitative test of transgenic trait 98140 using part of the sequence of:- - MHMG gene - 5' insert-to-plant junction</p> <p>Quantitative test of transgenic trait MON87427 using part of the sequence of:- - MHMG gene - 5' insert-to-plant junction</p> <p>Quantitative tests of transgenic trait DP-004114-3 using part of the sequence of:- - MHMG gene - 5' insert-to-plant junction</p> <p>Quantitative tests of transgenic trait MON87411 using part of the sequence of:- - MHMG gene - 3' insert-to-plant junction</p> <p>Quantitative tests of transgenic trait MON87460 using part of the sequence of:- - MHMG gene - 5' insert-to-plant junction</p>	In-house Methods GL-GM-19 and GL-GM-20 (Real-time PCR method)

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Maize and maize derived foodstuff (cont'd)	Tests for GMO (cont'd): -  Quantitative tests of transgenic trait 5307 using part of the sequence of:- - Zm Adh1 gene - 3' insert-to-plant junction	In-house Methods GL-GM-19 and GL-GM-20 (Real-time PCR method)
Rapeseed and rapeseed derived foodstuff	Quantitative tests of transgenic trait DP-073496-4 using part of the sequence of:- - FatA(A) gene - 5' insert-to-plant junction  Quantitative tests of transgenic trait GT73/RT73 using part of the sequence of:- - CruA gene - 3' insert-to-plant junction	In-house Methods GL-GM-19 and GL-GM-20 (Real-time PCR method)
Rice and rice derived foodstuff	Quantitative tests of transgenic trait Bt63 using part of the sequence of:- - RBE-4 gene - 3' insert-to-plant junction  Quantitative test of transgenic trait LLRICE62 using part of the sequence of:- - PLD gene - 3' insert-to-plant junction	In-house Methods GL-GM-19 and GL-GM-20 (Real-time PCR method)

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

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

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

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<b>Chinese Medicine 中藥</b>		
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Chinese Herbal Medicines	Pesticide residues:-  Acephate Aldicarb Aldicarb sulfone Aldicarb sulfoxide Cadusafos Carbofuran Carbofuran-3-hydroxy Chlordimeform Chlorpyrifos Chlorsulfuron Coumaphos Demeton (Sum of Demeton-S and Demeton-O) Diazinon Dichlorvos Dimethoate Ethametsulfuron-methyl Ethion Ethoprophos Fenamiphos Fenamiphos sulfone Fenamiphos sulfoxide Fipronil Fipronil desulfinyl Fipronil sulfone Fipronil sulfide Fonofos Isazofos Isocarbophos Isofenphos-methyl Malathion Methamidophos Methidathion Metsulfuron-methyl Monocrotophos Omethoate Parathion Parathion-methyl Phorate Phorate sulfone Phorate sulfoxide	In-house method GL-CM-33 (LC-MS/MS Screening) In-house method GL-CM-34 (LC-MS/MS)

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



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<b>Chinese Medicine 中藥</b>		
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Proprietary Chinese Medicines	Organochlorine pesticides :- Aldrin, Dieldrin, Endrin, <i>cis</i> -Chlordane, <i>trans</i> -Chlordane, Oxychlordane, Heptachlor, <i>cis</i> -Heptachlor epoxide, Hexachlorocyclohexane isomers (alpha-, beta- and delta-BHC), Lindane (gamma-BHC), Hexachlorobenzene, Methyl pentachlorophenyl sulphide, Pentachloroaniline, Quintozene (pentachloronitrobenzene), 2,4'-DDT (o,p'-DDT), 4,4'-DDT (p,p'-DDT), 4,4'-DDE (p,p'-DDE), and 4,4'-DDD (p,p'-TDE).	In-house method GL-CM-24 (GC-MS/MS Screening) In-house method GL-CM-25 (GC-MS/MS)
Chinese Herbal Medicines and Chinese Herbal Medicines Decocted Liquid	Organophosphorus pesticides- Acephate, Dichlorvos, Omethoate, Diazinon, Dimethoate, Ethion, Malathion, Methidathion, Isocarbophos, Triazophos, Parathion, Monocrotophos, Chlorpyrifos, Trichlorfon, Methamidophos, Phosphamidon, Parathion-methyl and Phorate	In-house method GL-CM-23 (LC-MS/MS Screening) In-house method GL-CM-30 (LC-MS/MS)

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香港九龍南昌街三百八十二號公共衛生檢測中心四樓西翼

<b>Chinese Medicine 中藥</b>		
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Proprietary Chinese Medicines and Chinese Herbal Medicines	Aconitum alkaloids:- Aconitine Hypaconitine Mesaconitine Yunaconitine Crassicauline A  Solanaceous alkaloids:- Atropine Scopolamine Anisodine Anisodamine  Strychnos alkaloids:- Brucine Strychnine	In-house Method GL-CM-16 (LC-MS/MS)
Chinese Herbal Medicines	Sulphur Dioxide	In-house Method GL-CM-26 (Titration) In-house Method GL-CM-28 (Headspace GC-TCD)
Chinese Herbal Medicines	Aflatoxins (B1, B2, G1, G2 and their total)	In-house Method GL-CM-29 (LC-MS/MS)

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<b>Chinese Medicine 中藥</b>		
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Proprietary Chinese Medicines	Chemical markers (Identification):- Verbascoside Salvianolic acid B Hesperidin Baicalin Baicalein Glycyrrhizic acid Wogonin Prim- <i>O</i> -glucosylcimifugin Nodakenin 5- <i>O</i> -Methylvisamminoside Isorhynchophylline Imperatorin Z-Ligustilide Isoimperatorin Levistilide A Tanshinone IIA Ginsenoside Rf Ginsenoside Rg <sub>1</sub> Ginsenoside Re Ginsenoside Rb <sub>1</sub> Saikosaponin A Saikosaponin D Ferulic acid α-Pinene Isoborneol Borneol Menthol Cinnamic aldehyde Catalpol Gastrodin Chlorogenic acid Amygdalin Ginsenoside Ro Tenuifolin Rhein Cholic acid 6-Gingerol Deoxycholic acid Phellodendrine Polygalaxanthone III β-Ecdysterone Peimisine Peiminine	In-house Method GL-CM-17 (LC-MS/MS, LC-QTOF MS & GC-MS/MS)

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Proprietary Chinese Medicines	Chemical markers (Identification) (Cont'd) :- Lobetyolin Forsythin Columbianadin Berberine Dracorhodin Osthole Costunolide Dehydrocostus lactone Deoxyschizandrin Betulinic acid Oleanolic acid Ursolic acid Glycine Paeonol Alisol B 23-acetate Astragaloside IV Atractylodin Patchouli alcohol, Perillaldehyde Echinocystic acid Genkwanin Harpagoside Honokiol Magnolol Naringin Ricinoleic acid Alpha-Cyperone Anisaldehyde Arecoline Asarinin Curcumin Gentiopicrin Linarin Luteolin Magnolin Mangiferin Mulberrin Piperine Muscone Quercetin-3-O-beta-D-gentiobioside Stachydrine Synephrine Tetrahydropalmatine	In-house Method GL-CM-17 (LC-MS/MS, LC-QTOF MS & GC-MS/MS)

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香港九龍南昌街三百八十二號公共衛生檢測中心四樓西翼

<b>Chinese Medicine 中藥</b>		
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Proprietary Chinese Medicines	Chemical markers (Identification & Quantification):- Paeoniflorin	In-house Method GL-CM-17 (LC-MS/MS, LC-QTOF MS & GC-MS/MS)

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香港九龍南昌街三百八十二號公共衛生檢測中心四樓西翼

<b>Chinese Medicine 中藥</b>		
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Proprietary Chinese Medicines and Health Products	Drug Adulteration:- 2,4-dinitrophenol Aminotadalafil Amoxicillin Ampicillin Aspirin Atenolol Atorvastatin Benzylsibutramine Betamethasone Bisacodyl Celecoxib Cetirizine Chlorpheniramine Cimetidine Cinnarizine Clobetasol propionate Clotrimazole Cyproheptadine Dexamethasone Diclofenac Diphenoxylate DMAA (1,3-dimethylamylamine) Domperidone Erythromycin Etoricoxib Fenfluramine Finasteride Fluoxetine Frusemide Gemfibrozil Glibenclamide Gliclazide Glimepiride Glipizide Hydrochlorothiazide Hydrocortisone Ibuprofen Indomethacin Loperamide Loratadine Lorcaserin Losartan	In-house method GL-CM-5 (LC-MS/MS) In-house method GL-CM-20 (LC-MS/MS Screening)

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<b>Chinese Medicine 中藥</b>		
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Proprietary Chinese Medicines and Health Products	Drug Adulteration (Cont'd):- Mazindol Mefenamic acid Metformin Metoprolol Metronidazole Miconazole Minoxidil Montelukast N,N-didesmethylsibutramine Naproxen N-desmethylsibutramine Nifedipine N-nitrosfenfluramine Omeprazole Orlistat Paracetamol Pentoxifylline Phenformin Phenolphthalein Phentermine Phenylbutazone Pioglitazone Piroxicam Prednisolone Prednisone Propranolol Pseudovardenafil Ranitidine Repaglinide Rosiglitazone Salbutamol Sibutramine Sildenafil Simvastatin Sitagliptin Tadalafil Tetracycline Theophylline Thyroxine Tolbutamide Triamcinolone Vardenafil	In-house method GL-CM-5 (LC-MS/MS) In-house method GL-CM-20 (LC-MS/MS Screening)

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<b>Chinese Medicine 中藥</b>		
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Proprietary Chinese Medicines and Health Products	Drug Adulteration (Cont'd):-  Aminopyrine Amlodipine Caffeine Colchicine Betamethasone-17-valerate Betamethasone-21-valerate Betamethasone dipropionate Beclomethasone dipropionate Dexamethasone acetate Enalapril Fluocinolone acetonide Ketoconazole Lincomycin Metoclopramide Prednisone acetate Pyridoxine Thiamine Tretinoin Triamcinolone acetonide Topiramate Yohimbine Cannabidiol	In-house method GL-CM-5 (LC-MS/MS) In-house method GL-CM-20 (LC-MS/MS Screening)



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Room 206 & 207, Biotech Centre 1, Hong Kong Science Park, Shatin, Hong Kong.

香港新界沙田香港科學園生物科技中心一座 206 及 207 室

<b>Chinese Medicine 中藥</b>		
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Chinese Herbal Medicines	Aflatoxins:- B <sub>1</sub> , B <sub>2</sub> , G <sub>1</sub> and G <sub>2</sub>	In-house method GL-CM-4 (HPLC)
Chinese Herbal Medicines - Herba Ephedrae	Physicochemical identification  Thin Layer Chromatography identification  HPLC fingerprinting  Assay: Ephedrine and Pseudoephedrine	Hong Kong Chinese Materia Medica Standards Volume 2

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Proprietary Chinese Medicines and Health Products	Drug Adulteration:- 2,4-dinitrophenol Aminotadalafil Amoxicillin Ampicillin Aspirin Atenolol Atorvastatin Benzylsibutramine Betamethasone Bisacodyl Celecoxib Cetirizine Chlorpheniramine Cimetidine Cinnarizine Clobetasol propionate Clotrimazole Cyproheptadine Dexamethasone Diclofenac Diphenoxylate DMAA (1,3-dimethylamylamine) Domperidone Erythromycin Etoricoxib Fenfluramine Finasteride Fluoxetine Frusemide Gemfibrozil Glibenclamide Gliclazide Glimepiride Glipizide Hydrochlorothiazide Hydrocortisone Ibuprofen Indomethacin Loperamide Loratadine Lorcaserin Losartan	In-house method GL-CM-5 (LC-MS/MS) In-house method GL-CM-20 (LC-MS/MS Screening)

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Proprietary Chinese Medicines and Health Products	Drug Adulteration (Cont'd):- Mazindol Mefenamic acid Metformin Metoprolol Metronidazole Miconazole Minoxidil Montelukast N,N-didesmethylsibutramine Naproxen N-desmethylsibutramine Nifedipine N-nitrosfenfluramine Omeprazole Orlistat Paracetamol Pentoxifylline Phenformin Phenolphthalein Phentermine Phenylbutazone Pioglitazone Piroxicam Prednisolone Prednisone Propranolol Pseudovardenafil Ranitidine Repaglinide Rosiglitazone Salbutamol Sibutramine Sildenafil Simvastatin Sitagliptin Tadalafil Tetracycline Theophylline Thyroxine Tolbutamide Triamcinolone Vardenafil	In-house method GL-CM-5 (LC-MS/MS) In-house method GL-CM-20 (LC-MS/MS Screening)

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<b>Chinese Medicine 中藥</b>		
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Proprietary Chinese Medicines and Health Products	Drug Adulteration (Cont'd):-  Aminopyrine Amlodipine Caffeine Colchicine Betamethasone-17-valerate Betamethasone-21-valerate Betamethasone dipropionate Beclomethasone dipropionate Dexamethasone acetate Enalapril Fluocinolone acetonide Ketoconazole Lincomycin Metoclopramide Prednisone acetate Pyridoxine Thiamine Tretinoin Triamcinolone acetonide Topiramate Yohimbine Cannabidiol	In-house method GL-CM-5 (LC-MS/MS) In-house method GL-CM-20 (LC-MS/MS Screening)

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

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Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Animal feed	<p>Veterinary drug residues :-</p> <ul style="list-style-type: none"> <li>- Beta-agonists: - <ul style="list-style-type: none"> <li>Clenbuterol</li> <li>Salbutamol</li> </ul> </li> <li>- Chloramphenicol</li> </ul>	<p>In-house Method GL-VD-4 (ELISA and LC-MS/MS)</p> <p>In-house Method GL-VD-7 (ELISA and LC-MS/MS)</p>

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

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General foodstuff (cont'd)	Pesticide residues : (cont'd) 2,4'-DDT 4,4'-DDT cis-Chlordane trans-Chlordane Endosulfan sulfate Dicofof Chlorothalonil (Chlorthalonil) Chlorfenapyr Quintozene (Pentachloronitrobenzene / PCNB) Pentachloroaniline (PCA) Methyl pentachlorophenyl sulphide (Pentachlorothioanisole / MPCPS) Pentachlorobenzene  - N-methylcarbamates : Aldicarb sulfoxide Aldoxycarb (Aldicarb sulfone) Butocarboxim Metolcarb Carbonfuran Carbaryl Isoprocarb Promecarb Oxamyl Methomyl Aldicarb Propoxur Bendiocarb Ethiofencarb Methiocarb 3-Hydroxycarbofuran  - Pyrethroids : Bifenthrin Cyfluthrin Cyhalothrin Cypermethrin Deltamethrin Fenpropathrin Fenvalerate Permethrin	In-house Method GL-OR-134 (GC-MS/MS, LC-MS/MS Screening) (cont'd)



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General foodstuff (cont'd)	Pesticide residues : (cont'd)  - Organophosphorus Acephate Azinphos methyl Carbophenothion Chlorfenvinphos Chlorpyrifos methyl Chlorpyrifos Coumaphos Crufomate Diazinon Dichlorvos (DDVP) Dimethoate Disulfoton (Disulfonton) Edifenphos Ethion Ethoprophos Fenamiphos Fenchlorphos Fenitrothion Fensulfothion Fenthion Isocarbophos Isofenphos Malathion Methamidophos Methidathion Mevinphos Monocrotophos Omethoate Parathion (Parathion ethyl) Parathion methyl Phenthoate Phorate Phosalone Phosmet Phosphamidon Pirimiphos methyl	In-house Method GL-OR-134 (GC-MS/MS, LC-MS/MS Screening) (cont'd)

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<b>Food 食品</b>		
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General foodstuff (cont'd)	Pesticide residues : (cont'd)  - Organophosphorus Profenophos Prothiofos (Prothiophos) Pyrazophos Quinalphos Sulfotep Tetrachlorvinphos Triazophos Trichlorfon	In-house Method GL-OR-134 (GC-MS/MS, LC-MS/MS Screening) (cont'd)
Fruit, vegetables and aquatic products	Pesticide residues :  - Organochlorines : Methoxychlor (4,4'-Methoxychlor) Alpha-BHC (Alpha-HCH) Beta-BHC (Beta-HCH) Gamma-BHC (Lindane/Gamma-HCH) Delta-BHC (Delta-HCH) o,p'-DDT p,p'-DDT p,p'-TDE p,p'-DDE o,p'-DDE  - Organophosphorus : Azinphos Methyl Chlorpyrifos Chlorpyrifos methyl Dimethoate Methidathion	In-house Method GL-OR-137 (GC-MS/MS, LC-MS/MS)

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Fruit, vegetables and aquatic products (cont'd)	Pesticide residues :  - N-methylcarbamates : Aldicarb sulfoxide Aldoxycarb (Aldicarb sulfone) Butocarboxim Metolcarb Carbonfuran Carbaryl Isoprocarb Promecarb Oxamyl Methomyl Aldicarb Propoxur Bendiocarb Ethiofencarb Methiocarb 3-Hydroxycarbofuran  - Pyrethroids : Bifenthrin Cyfluthrin Cyhalothrin Cypermethrin Deltamethrin Fenpropathrin Fenvalerate Permethrin	In-house Method GL-OR-137 (GC-MS/MS, LC-MS/MS) (cont'd)

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General foodstuff	Pesticide residues :- (Pesticides and definition related compounds)  2-(Thiocyanomethyl-thio)benzothiazole (TCMTB) Avermectin B1a + Avermectin B1a 8,9Z + Avermectin B1b Acephate Acetamiprid Acetamiprid-N-desmethyl (N1-[(6-chloro-3-pyridyl)methyl]-N2-cyano-acetamide) Acibenzolar-S-methyl Acifluorfen Alachlor Aldicarb Aldicarb sulfone Aldicarb sulfoxide Ametryn Amitraz Semiamitraz (N-(2,4-dimethylphenyl)-N'-methylformamide) Anilazine Atrazine Azinphos Methyl Azoxystrobin Benalaxyl Bendiocarb 3-Hydroxycarbofuran Benfuracarb Carbofuran Bensulfuron methyl Bentazone Bifenthrin Bioresmethrin Bispyribac sodium Bitertanol Boscalid Bromacil Bromoxynil	In-house Method GL-OR-140 (Screening by LC-MS/MS)

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General foodstuff (cont'd)	Pesticide residues :- (Pesticides and definition related compounds) (cont'd)  Buprofezin Butachlor Butafenacil Butocarboxim Butylate Cadusafos Carbaryl Carbendazim Thiophanate-methyl Carbophenothion Carbosulfan Carboxin Carfentrazone (carfentrazone-chloropropionic acid / alpha, 2-dichloro-5-[-4-difluoromethyl]-4,5-dihydro-3-methyl-5-oxo-1H-1,2,4-triazol-1-yl]-4-fluorobenzenepropanoic acid) Carfentrazone ethyl Chlorantraniliprole Chlorbenzuron Chlorfenviphos Chlorimuron ethyl Chlorpropham Chlorpyrifos Chlorpyrifos Methyl Chlorsulfuron Chlortoluron Clodinafop Clodinafop-propargyl Clofencet Clofentazine Clomazone Clothianidin Coumaphos	In-house Method GL-OR-140 (Screening by LC-MS/MS) (cont'd)

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General foodstuff (cont'd)	Pesticide residues :- (Pesticides and definition related compounds) (cont'd)  Coumaphos oxon (O,O-diethyl O-3- chloro-4- methyl-2-oxo-2H-1- benzopyran-7-yl phosphate) Crufomate Cyclanilide Cycloate Cyfluthrin Cyhalothrin Cymoxanil Cypermethrin Cyproconazole Cyprodinil Deltamethrin Desmedipham Diazinon Dichlofluanid Dichlorvos / DDVP Diclofop Diclofop-methyl Dicloran Diclosulam Dicrotophos Difenconazole Difenzoquat Diflubenzuron Dimethenamid Dimethoate Dimethomorph Diniconazole Dinotefuran Diphenylamine Disulfoton Diuron Dodine	In-house Method GL-OR-140 (Screening by LC-MS/MS) (cont'd)

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General foodstuff (cont'd)	Pesticide residues :- (Pesticides and definition related compounds) (cont'd)  Edifenphos Emamectin B1a + Emamectin B1b Endosulfan sulphate Ethametsulfuron methyl Ethiofencarb Ethion Ethoprophos Ethoxyquin Etofenprox Etozazole Famoxadone 5-methyl-5-phenylhydantoin (2,4- imidazolidinedione, 5-methyl-5-phenyl / RPA 717879) Fenamidone Fenamiphos Fenamiphos sulphone Fenamiphos sulphoxide Fenarimol Fenbuconazole Fenhexamid Fenitrothion Fenobucarb (BPMC) 6-Chlorobenzoxazol-2(3H)-one (6-chloro- 2,3- dihydrobenzoxazol-2-one) Fenoxaprop ([2-[4-(6-chloro-2- benzoxazolyl)oxy]phenoxy]propanoic acid) Fenoxaprop ethyl Fenpropathrin Fenpropimorph Fenpyroximate Fensulfothion Fenthion Fenthion oxon Fenthion oxon sulphone Fenthion oxon sulphoxide	In-house Method GL-OR-140 (Screening by LC-MS/MS) (cont'd)

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General foodstuff (cont'd)	Pesticide residues :- (Pesticides and definition related compounds) (cont'd)  Fenthion sulphone Fenthion sulphoxide Fenvalerate Fipronil Fipronil sulfone (5-amino-3-cyano-1-(2,6-dichloro-4-trifluoromethylphenyl)-4-trifluoromethylsulphonylpyrazole / MB 46136) Flonicamid Florasulam Fluzifop acid Fluzifop-butyl Fluzifop-P-butyl Fluzinam Flubendiamide Flucythrinate 2,2-difluoro-1,3-benzodioxole-4-carboxylic acid Fludioxonil Flufenacet Flufenoxuron Flufenpyr ethyl Flumethrin Flumetsulam Flumiclorac pentyl Flumioxazin Fluometuron Fluopicolide 2-(trifluoromethyl)benzamide Fluopyram Fluridone Fluroxypyr Flusilazole Fluthiacet methyl Flutolanil Flutriafol Fluvalinate	In-house Method GL-OR-140 (Screening by LC-MS/MS) (cont'd)



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General foodstuff (cont'd)	Pesticide residues :- (Pesticides and definition related compounds) (cont'd)  Fomesafen Fonofos Forchlorfenuron Formetanate hydrochloride Fosthiazate Halosulfuron methyl Haloxypop Hexythiazox Hymexazol Imazalil Imazamethabenz methyl Imazapyr Imazethapyr Imazosulfuron Imidacloprid Indoxacarb Iodosulfuron-methyl Sodium Ipconazole Iprodione Isocarbophos Isofenphos Isofenphos-methyl Isoprocarb Isoprothiolane Isoxaben Kresoxim methyl Lactofen Linuron Malathion Mandipropamid Mepronil 2,4-DNOP ( 2,4-Dinitro-6-(1-methylheptyl)phenol) Meptyldinocap Mesosulfuron methyl Mesotrione	In-house Method GL-OR-140 (Screening by LC-MS/MS) (cont'd)

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General foodstuff (cont'd)	Pesticide residues :- (Pesticides and definition related compounds) (cont'd)  Metaflumizone Metalaxyl Metconazole Methamidophos Methidathion Methiocarb Methiocarb sulphone Methiocarb sulphoxide Methomyl Thiodicarb Methoprene Methoxyfenozide Metolachlor Metolcarb Metrafenone Metribuzin Metsulfuron methyl Mevinphos Molinate Monocrotophos Myclobutanil Dichlorvos (DDVP / 2,2-dichlorovinyl dimethyl phosphate) Naled Napropamide Naptalam Nicosulfuron Norflurazon Norflurazon desmethyl (4-chloro- 5-(amino)-2-alpha, alpha, alphatrimfluoro- m-tolyl)-3(3H)-pyridazinone) Novaluron Omethoate Orthosulfamuron Oryzalin Oxadiazon Oxamyl Oxamyl oxime	In-house Method GL-OR-140 (Screening by LC-MS/MS) (cont'd)

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General foodstuff (cont'd)	Pesticide residues :- (Pesticides and definition related compounds) (cont'd)  Demeton-S-methyl Demeton-S-methylsulphone Oxydemeton-methyl Oxyfluorfen Paclobutrazol Parathion (Parathion Ethyl) Parathion Methyl Penconazole Pendimethalin Penoxsulam Permethrin Phenmedipham Phenthoate Phorate Phorate oxon Phorate oxon sulphone Phorate oxon sulphoxide Phorate sulphone Phorate sulphoxide Phosalone Phosmet N-desethyl-phosphamidon Phosphamidon Phoxim Piperonyl butoxide Pirimicarb Pirimphos methyl Pretilachlor Primisulfuron methyl Prochloraz Profenofos Prometryn Propachlor Propamocarb Propanil	In-house Method GL-OR-140 (Screening by LC-MS/MS) (cont'd)

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General foodstuff (cont'd)	Pesticide residues :- (Pesticides and definition related compounds) (cont'd)  Propargite Atrazine-desethyl (2-amino-4-chloro-6-isopropylamino- s -triazine) Atrazine-desethyl-desisopropyl (2,4-diamino-6-chloro- s -triazine) Propazine Propiconazole Propoxur Propoxycarbazone Propyzamide Prosulfuron Prothioconazole-desthio Prothiofos Pymetrozine Pyraclostrobin Pyrazophos Pyrethrum – Cinerin 1 Pyrethrum – Cinerin 2 Pyrethrum – Jasmolin 1 Pyrethrum – Jasmolin 2 Pyrethrum – Pyrethrin 1 Pyrethrum – Pyrethrin 2 Pyridaben Pyridalyl 6-chloro-3-phenyl-pyridazine-4-ol Pyridate 4'-Hydroxy Pyrimethanil (4-((4,6-dimethyl-2-pyrimidinyl)amino)phenol / 2-(4-hydroxyanilino)-4,6-dimethylpyrimidine) Pyrimethanil Pyriproxyfen Pyriithiobac sodium Pyroxsulam Quinalphos Quinclorac Quinoxifen	In-house Method GL-OR-140 (Screening by LC-MS/MS) (cont'd)

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General foodstuff (cont'd)	Pesticide residues :- (Pesticides and definition related compounds) (cont'd)  Quizalofop Quizalofop ethyl Quizalofop methyl Rimsulfuron Safflufenacil Sethoxydim Atrazine-desethyl-desisopropyl (2,4-diamino-6-chloro-s-triazine) Atrazine-desisopropyl (2-amino-4-chloro-6-ethylamino-s-triazine) Simazine Spinetoram (Major component + Minor component) Spinosyn A + Spinosyn D Spirodiclofen Spiromesifen Spiromesifen metabolite M01 (Spiromesifen-alcohol / 4-hydroxy-3-(2,4,6-trimethylphenyl)-1-oxaspiro[4.4]non-3-en-2-one) Spirotetramat Spirotetramat Metabolite (BYI08330-cis-enol / 3-(2,5-dimethylphenyl)-4-hydroxy-8-methoxy-1-azaspiro[4.5]dec-3-en-2-one) Spiroxamine Sulfotep Tebuconazole Tebufenozide Teflubenzuron Cyhalothric acid ((Z)-3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethylcyclopropanecarboxylic acid) Tembotrione Tembotrione metabolite AE 1417268 (2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl]-4,6-dihydroxycyclohexane-1,3-dione)	In-house Method GL-OR-140 (Screening by LC-MS/MS) (cont'd)

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General foodstuff (cont'd)	Pesticide residues :- (Pesticides and definition related compounds) (cont'd)  Terbufos Terbufos oxon Terbufos oxon sulphone Terbufos oxon sulphoxide Terbufos sulphone Terbufos sulphoxide Tetrachlorvinphos Tetraconazole 5-Hydroxythiabendazole Thiabendazole Thiacloprid Thiamethoxam Thidiazuron Thiencarbazone methyl Thifensulfuron methyl Thiocyclam Tolclofos methyl Tolyfluanid Topramezone Tralkoxydim Triadimefon Triadimenol Triasulfuron Triazophos Tribenuron methyl Tribufos Trichlorfon 3,5,6-trichloro-2-pyridinol Triclopyr Tricyclazole Trifloxystrobin Trifloxysulfuron Triflumizole Triflusulfuron methyl Triticonazole Uniconazole Vamidothion Zoxamide	In-house Method GL-OR-140 (Screening by LC-MS/MS) (cont'd)

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

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<b>Food 食品</b>		
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Fruit and Vegetables (cont'd)	Pesticide residues :- (Pesticides and definition related compounds) (cont'd)  Diazinon 2,6-Dichlorobenzamide Dichlobenil Diclofop-methyl Dicloran Dimethenamid Dimethipin Dimethoate Diniconazole Diphenylamine Disulfoton alpha-Endosulfan beta-Endosulfan Endosulfan Sulfate Endrin Endrin ketone Ethalfuralin Ethion Ethoprophos Etofenprox Etoxazole Fenamidone Fenarimol Fenchlorphos Fenitrothion Fenoxaprop-ethyl Fenpropathrin Fenpropimorph Fenthion Fenvalerate Fipronil Flonicamid Fluazifop-butyl Flufenpyr-ethyl Flumiclorac pentyl Fluopicolide Fluopyram	In-house Method GL-OR-144 (Screening by GC-TOF-MS) (cont'd)



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Fruit and Vegetables (cont'd)	Pesticide residues :- (Pesticides and definition related compounds) (cont'd)  Flusilazole Flutolanil Flutriafol Folpet Fonofos Fthalide cis-Heptachlor epoxide Heptachlor trans-Heptachlor epoxide Hexachlorobenzene alpha-BHC beta-BHC delta-BHC gamma-BHC Hexythiazox Imazamethabenz-methyl Isofenphos Kresoxim methyl Lactofen Malathion Mepronil Metconazole Methidathion Methoxychlor Metolachlor Metrafenone Mevinphos Mirex Napropamide Nitrapyrin Norflurazon Norflurazon-desmethyl o,p'-DDD o,p'-DDE Oxyfluorfen	In-house Method GL-OR-144 (Screening by GC-TOF-MS) (cont'd)

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Fruit and Vegetables (cont'd)	Pesticide residues :- (Pesticides and definition related compounds) (cont'd)  Parathion Parathion methyl Penconazole Pendimethalin Pentachloroaniline Pentachlorobenzene Pentachlorothioanisole Permethrin Phenthoate Phosalone Pirimiphos Methyl Pretilachlor Procymidone Profenofos Prometryn Propachlor Propanil Atrazine-desethyl Propazine Propiconazole Propyzamide Prothiofos Pyridalyl Pyrimethanil Pyriproxyfen Quinalphos Quinoxifen Quintozene Atrazine-desisopropyl Spirodiclofen Sulfotep Tecnazene Tefluthrin Terbufos Terbufos sulphone Tetraconazole	In-house Method GL-OR-144 (Screening by GC-TOF-MS) (cont'd)

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Fruit and Vegetables (cont'd)	Pesticide residues :- (Pesticides and definition related compounds) (cont'd)  Tetradifon Tolclofos-methyl Tolyfluanid Triazophos Tribufos Trifloxystrobin Trifluralin Uniconazole Vinclozolin Zoxamide	In-house Method GL-OR-144 (Screening by GC-TOF-MS) (cont'd)

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Fruits, vegetables and egg products	Pesticide residues:  Acephate Acetamiprid Acetamiprid-N-desmethyl (N1-[(6-chloro-3-pyridyl)methyl]-N2-cyano-acetamide) Acibenzolar-S-methyl Acifluorfen Alachlor Aldicarb Aldicarb sulfone Aldicarb sulfoxide Atrazine Benalaxyl Bensulfuron methyl Bifenthrin Bioresmethrin Bitertanol Boscalid Buprofezin Butachlor Butafenacil Cadusafos Carbaryl Carbofuran 3-Hydroxycarbofuran Carfentrazone ethyl Chlorantraniliprole	In-house Method GL-OR-149 (LC-MS/MS)

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Fruits, vegetables and egg products (cont'd)	Pesticide residues: (cont'd)  Chlorimuron ethyl Chlorpropham Chlorpyrifos Chlorpyrifos Methyl Chlorsulfuron Chlortoluron Clodinafop-propargyl Clomazone Clothianidin Coumaphos Cyfluthrin Cyhalothrin Cyprodinil Deltamethrin Diazinon Dichlorvos Dicrotophos Diflubenzuron Dimethoate Dimethomorph Diniconazole Dinotefuran Diphenylamine Ethametsulfuron methyl Ethion Ethoprophos Etoxazole Famoxadone Fenamiphos Fenamiphos sulphone Fenamiphos sulphoxide Fenarimol Fenbuconazole Fenhexamid Fenobucarb Fenoxaprop ethyl	In-house Method GL-OR-149 (LC-MS/MS) (cont'd)

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Fruits, vegetables and egg products (cont'd)	Pesticide residues: (cont'd)  Fenpropathrin Fenpropimorph Fenpyroximate Fenthion Fenthion sulphone Fenthion sulphoxide Fenvalerate Fipronil Fipronil sulfone Florasulam Fluazifop-butyl Fluazinam Flubendiamide Flufenoxuron Flumethrin Flumetsulam Flumiclorac pentyl Flumioxazin Fluopicolide 2-(trifluoromethyl)benzamide Fluopyram Flutriafol Fluvalinate Fomesafen Fonofos Formetanate hydrochloride Fosthiazate Halosulfuron methyl Hexythiazox Imazalil Indoxacarb Iodosulfuron-methyl Sodium Iprodione Isocarbophos Isofenphos-methyl Isoprocab Isoprothiolane Kresoxim methyl Lactofen Malathion	In-house Method GL-OR-149 (LC-MS/MS) (cont'd)

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Fruits, vegetables and egg products (cont'd)	Pesticide residues: (cont'd)  Mandipropamid Mepronil Mesosulfuron methyl Mevinphos Molinate Monocrotophos Myclobutanil Nicosulfuron Norflurazon Novaluron Omethoate Oxamyl Oxamyl oxime Demeton-S-methyl Demeton-S-methylsulphone Oxydemeton-methyl Oxyfluorfen Paclobutrazol Parathion Parathion Methyl Penconazole Pendimethalin Permethrin Phenmedipham Phenthoate Phorate Phorate sulphone Phorate sulphoxide Phosalone Phosmet Piperonyl butoxide Pirimphos methyl Pretilachlor Profenofos Propanil Propargite Atrazine-desethyl Atrazine-desethyl-desisopropyl Propazine Propiconazole	In-house Method GL-OR-149 (LC-MS/MS) (cont'd)

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Fruits, vegetables and egg products (cont'd)	Pesticide residues: (cont'd)  Prothioconazole-desthio Prothiofos Pyraclostrobin Pyridaben Pyrimethanil Pyriproxyfen Quinalphos Quizalofop ethyl Quizalofop methyl Atrazine-desisopropyl Spinetoram (Major component ) Spinetoram (Minor component) Spirodiclofen Spiromesifen Spiromesifen metabolite M01 Spirotetramat Spiroxamine Tebuconazole Tebufenozide Teflubenzuron Terbufos Terbufos sulphone Terbufos sulphoxide Tetraconazole Thiacloprid Tolclofos methyl Tralkoxydim Triadimefon Triadimenol Triasulfuron Triazophos Tribenuron methyl Tribufos Tricyclazole Trifloxystrobin Vamidothion Zoxamide	In-house Method GL-OR-149 (LC-MS/MS) (cont'd)



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Fruits, vegetables and egg products	Pesticide residues:  Acephate Acetamiprid-N-desmethyl Acibenzolar-S-methyl Alachlor Atrazine Bioresmethrin Boscalid Buprofezin Cadusafos Carbaryl Carbofuran 3-Hydroxycarbofuran Chlorpropham Chlorpyrifos Chlorpyrifos Methyl Chlortoluron Clodinafop-propargyl Clomazone Clothianidin Dimethoate Dimethomorph Diniconazole Dinotefuran Ethoprophos Etofenprox Etoxazole Fenamidone Fenamiphos Fenamiphos sulphoxide Fenbuconazole Fenhexamid Fenpropimorph Fenpyroximate Fipronil Fipronil sulfone Florasulam Fluazifop-butyl Flumetsulam Fluopicolide	In-house Method GL-OR-150 (LC-QE-MS)

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

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Fruits, vegetables and egg products (cont'd)	Pesticide residues: (cont'd)  Sethoxydim Spiromesifen Tebuconazole Tebufenozide Tetraconazole Thiacloprid Tolclofos methyl Tralkoxydim Triadimefon Triazophos Tribenuron methyl Tribufos Tricyclazole Trifloxystrobin Vamidothion	In-house Method GL-OR-150 (LC-QE-MS) (cont'd)
Fruits, vegetables and cereal	Ethephon	In-house Method GL-OR-154 (LC-MS/MS)
Fruits, vegetables and cereal	Glyphosate	In-house Method GL-OR-155 (LC-MS/MS)
Milk and milk products Nuts and seeds Food seasonings Condiments Noodles	Ethylene oxide	In-house Method GL-OR-174 (GC-MS/MS)

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General foodstuff	Pesticide residues:- (Against residue definition in RE/MWI/003)  2-(Thiocyanomethyl-thio)benzothiazole (TCMTB) Abamectin (Determined as “Avermectin B1a + Avermectin B1a 8,9Z + Avermectin B1b”) Acephate Acetamiprid Acibenzolar-S-methyl Acifluorfen Alachlor Aldicarb Ametryn Amitraz Semiamitraz (N-(2,4-dimethylphenyl)-N'- methylformamidine) Anilazine Atrazine Azinphos methyl Azoxystrobin Benalaxyl Benfuracarb Bensulfuron methyl Bifenthrin Bioresmethrin Bispyribac sodium Bitertanol Boscalid Bromacil Bromoxynil Buprofezin Butachlor Butafenacil Butylate Cadusafos Carbaryl Carbendazim Carbofuran Carbosulfan Carfentrazone ethyl Chlorantraniliprole Chlorbenzuron Chlorimuron ethyl	In-house Methods GL-OR-140 & RE/MWI/003 (LC-MS/MS Screening)

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General foodstuff (cont'd)	Pesticide residues:- (Against residue definition in RE/MWI/003) (cont'd)  Chlorpropham Chlorpyrifos Chlorpyrifos methyl Chlorsulfuron Chlortoluron Clodinafop propargyl Clofencet Clofentazine Clomazone Clothianidin Coumaphos Cycloate Cyfluthrin Cyhalothrin Cymoxanil Cypermethrin Cyproconazole Cyprodinil Deltamethrin Desmedipham Diazinon Dichlofluanid Dichlorvos Diclosulam Dicrotophos Difenconazole Difenzoquat Diflubenzuron Dimethenamid-P Dimethoate Dimethomorph Diniconazole Dinotefuran Diphenylamine Dodine	In-house Methods GL-OR-140 & RE/MWI/003 (LC-MS/MS Screening) (cont'd)

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General foodstuff (cont'd)	Pesticide residues:- (Against residue definition in RE/MWI/003) (cont'd)  Edifenphos Emamectin (Determined as Emamectin B1a + Emamectin B1b) Esfenvalerate Ethametsulfuron methyl Ethion Ethoprophos Ethoxyquin Etofenprox Etoxazole Famoxadone Fenamidone Fenamiphos Fenarimol Fenbuconazole Fenhexamid Fenitrothion Fenobucarb (BPMC) Fenoxaprop ethyl Fenpropathrin Fenpropimorph Fenpyroximate Fenthion Fenvalerate Fipronil Florasulam Fluazifop butyl Fluazifop-P-butyl Fluazinam Flubendiamide Flucythrinate Fludioxonil Flufenoxuron Flufenpyr ethyl Flumethrin Flumetsulam Flumiclorac pentyl Flumioxazin Fluopicolide	In-house Methods GL-OR-140 & RE/MWI/003 (LC-MS/MS Screening) (cont'd)

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General foodstuff (cont'd)	Pesticide residues:- (Against residue definition in RE/MWI/003) (cont'd)  Fluopyram Fluridone Fluroxypyr Flusilazole Fluthiacet methyl Flutolanil Flutriafol Fluvalinate Fomesafen Fonofos Forchlorfenuron Formetanate hydrochloride Fosthiazate Halosulfuron methyl Hexythiazox Hymexazol Imazalil Imazamethabenz methyl Imazapyr Imazethapyr Imazosulfuron Indoxacarb Iodosulfuron-methyl sodium Ipconazole Iprodione Isocarbophos Isofenphos methyl Isoprocarb Isoprothiolane Isoxaben Kresoxim methyl Lactofen Malathion Mandipropamid Mepronil Meptyldinocap Mesosulfuron methyl	In-house Methods GL-OR-140 & RE/MWI/003 (LC-MS/MS Screening) (cont'd)

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General foodstuff (cont'd)	Pesticide residues:- (Against residue definition in RE/MWI/003) (cont'd)  Mesotrione Metaflumizone Metalaxyl Metconazole Methamidophos Methidathion Methiocarb Methomyl Methoprene Methoxyfenoxide Metolachlor Metrafenone Metribuzin Metsulfuron methyl Mevinphos Molinate Monocrotophos Myclobutanil Naled Napropamide Naptalam Nicosulfuron Norflurazon Novaluron Omethoate Orthosulfamuron Oryzalin Oxadiazon Oxamyl Oxydemeton methyl Oxyfluorfen Paclobutrazol Parathion Parathion methyl Penconazole	In-house Methods GL-OR-140 & RE/MWI/003 (LC-MS/MS Screening) (cont'd)



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General foodstuff (cont'd)	Pesticide residues:- (Against residue definition in RE/MWI/003) (cont'd)  Pendimethalin Penoxsulam Permethrin Phenmedipham Phenthoate Phorate Phosalone Phosmet Phosphamidon Phoxim Piperonyl butoxide Pirimicarb Pirimiphos methyl Pretilachlor Primisulfuron methyl Profenofos Prometryn Propamocarb Propanil Propargite Propazine Propiconazole Propoxycarbazone Prosulfuron Prothioconazole Prothiofos Pymetrozine Pyraclostrobin Pyrethrins Pyridaben Pyridalyl Pyrimethanil Pyriproxyfen Pyriithiobac sodium Pyroxsulam	In-house Methods GL-OR-140 & RE/MWI/003 (LC-MS/MS Screening) (cont'd)

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General foodstuff (cont'd)	Pesticide residues:- (Against residue definition in RE/MWI/003) (cont'd)  Quinalphos Quinclorac Quinoxifen Quizalofop ethyl Rimsulfuron Saflufenacil Semiamitraz Sethoxydim Simazine Spinetoram Spinosad Spirodiclofen Spiromesifen Spirotetramat Spiroxamine Tebuconazole Tebufenozide Teflubenzuron Tembotrione Terbufos Tetraconazole Thiabendazole Thiacloprid Thiamethoxam Thiencarbazone methyl Thifensulfuron methyl Thiocyclam Tolclofos methyl Tolyfluanid Topramezone Tralkoxydim Triadimefon Triadimenol Triasulfuron Triazophos Tribenuron methyl Tribufos	In-house Methods GL-OR-140 & RE/MWI/003 (LC-MS/MS Screening) (cont'd)

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General foodstuff (cont'd)	Pesticide residues:- (Against residue definition in RE/MWI/003) (cont'd)  Trichlorfon Triclopyr Tricyclazole Trifloxystrobin Trifloxysulfuron Triflusulfuron methyl Triticonazole Uniconazole Vamidothion Zoxamide	In-house Methods GL-OR-140 & RE/MWI/003 (LC-MS/MS Screening) (cont'd)

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Fruit and Vegetables	Pesticide residues:- (Against residue definition in RE/MWI/003)  2-(Thiocyanomethylthio)benzothiazole (TCMTB) Aldrin and Dieldrin Ametryn Benalaxyl Benfluralin Bifenthrin Boscalid Bromacil Bromopropylate Butachlor Butafenacil Cadusafos Captan Chlorantraniliprole Chlordane Chlorfenapyr Chlorpropham Chlorpyrifos Chlorpyrifos methyl Clomazone Cycloate Cyhalothrin Cyprodinil DDT Diazinon Dichlobenil Dicloran Dimethenamid-P Dimethipin Dimethoate Diniconazole Diphenylamine	In-house Methods GL-OR-144 & RE/MWI/003 (GC-TOF-MS Screening)

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Fruit and Vegetables (cont'd)	Pesticide residues:- (Against residue definition in RE/MWI/003) (cont'd)  Endosulfan Endrin Ethalfuralin Ethion Ethoprophos Etofenprox Etoxazole Fenamidone Fenarimol Fenitrothion Fenpropathrin Fenpropimorph Fenvalerate Esfenvalerate Fipronil Flufenpyr-ethyl Flumiclorac pentyl Fluopicolide Fluopyram Flusilazole Flutolanil Flutriafol Folpet Fonofos Fthalide Heptachlor Hexachlorobenzene Hexachlorocyclohexane (HCH) Lindane Hexythiazox Kresoxim methyl Lactofen Malathion Mepronil Metconazole Methidathion	In-house Methods GL-OR-144 & RE/MWI/003 (GC-TOF-MS Screening) (cont'd)

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Fruit and Vegetables (cont'd)	Pesticide residues:- (Against residue definition in RE/MWI/003) (cont'd)  Metolachlor Metrafenone Mevinphos Napropamide Norflurazon Oxyfluorfen Parathion Parathion methyl Penconazole Pendimethalin Permethrin Phenthoate Phosalone Pirimphos Methyl Pretilachlor Procymidone Profenofos Prometryn Propanil Propiconazole Prothiofos Pyridalyl Pirimethanil Pyriproxyfen Quinalphos Quinoxifen Quintozene Spirodiclofen Tecnazene Tetraconazole Tolclofos-methyl Tolyfluanid Triazophos Tribufos Trifloxystrobin Trifluralin Uniconazole Zoxamide	In-house Methods GL-OR-144 & RE/MWI/003 (GC-TOF-MS Screening) (cont'd)

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Fruit and Vegetables	Pesticide residues :- (Against residue definition in RE/MWI/003)  Tefluthrin	In-house Methods GL-OR-140, GL-OR-144 & RE/MWI/003 (LC-MS/MS and GC-TOF-MS Screening)

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General foodstuff	Pesticide residues :- (Against residue definition in RE/MWI/003)  Aldrin and Dieldrin Chlordane Chlorfenapyr Chlorothalonil DDT Endosulfan Heptachlor Hexachlorocyclohexane (HCH) Lindane Procymidone Quintozene Trifluralin Acephate Azinphos methyl Bifenthrin Chlorpyrifos Chlorpyrifos methyl Cyfluthrin Cyhalothrin Cypermethrin Deltamethrin Diazinon Dichlorvos Dimethoate Edifenphos Ethion Ethoprophos Fenitrothion Fenpropathrin Fenvalerate / Esfenvalerate Isocarbophos	In-house Methods GL-OR-134 & RE/MWI/003 (GC-MS/MS and LC-MS/MS Screening)



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General foodstuff (cont'd)	Pesticide residues :- (Against residue definition in RE/MWI/003) (cont'd)  Malathion Methamidophos Methidathion Mevinphos Monocrotophos Omethoate Parathion Parathion methyl Permethrin Phenthoate Phosalone Phosmet Phosphamidon Pirimiphos Methyl Profenofos Prothiofos Quinalphos Triazophos Trichlorfon Aldicarb Carbaryl Carbofuran Isoprocarb	In-house Methods GL-OR-134 & RE/MWI/003 (GC-MS/MS and LC-MS/MS Screening) (cont'd)

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Fruits, vegetables and egg products	Pesticide residues:- (Against residue definition in RE/MWI/003)  Acephate Acetamiprid Acibenzolar-S-methyl Acifluorfen Alachlor Aldicarb Atrazine Benalaxyl Bensulfuron methyl Bifenthrin Bioresmethrin Bitertanol Boscalid Buprofezin Butachlor Butafenacil Cadusafos Carbaryl Carbofuran Chlorantraniliprole Chlorimuron ethyl Chlorpropham Chlorpyrifos Chlorpyrifos Methyl Chlorsulfuron Chlortoluron Clomazone Clothianidin Coumaphos Cyfluthrin Cyhalothrin Cyprodinil Deltamethrin Diazinon Dichlorvos	In-house Method GL-OR-149 & RE/MWI/003 (LC-MS/MS)

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Fruits, vegetables and egg products (cont'd)	Pesticide residues:- (Against residue definition in RE/MWI/003) (cont'd)  Dicrotophos Diflubenzuron Dimethoate Dimethomorph Diniconazole Dinotefuran Diphenylamine Esfenvalerate Ethametsulfuron-methyl Ethion Ethoprophos Etoxazole Famoxadone Fenamidone Fenamiphos Fenarimol Fenbuconazole Fenhexamid Fenobucarb (BPMC) Fenpropathrin Fenpropimorph Fenpyroximate Fenvalerate Fipronil Florasulam Fluazinam Flubendiamide Flufenoxuron Flumethrin Flumetsulam Flumiclorac pentyl Flumioxazin Fluopicolide Fluopyram Flutraifol	In-house Method GL-OR-149 & RE/MWI/003 (LC-MS/MS) (cont'd)

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Fruits, vegetables and egg products (cont'd)	Pesticide residues:- (Against residue definition in RE/MWI/003) (cont'd)  Fluvalinate Fomesafen Fonofos Formetanate hydrochloride [Salt] Fosthiazate Halosulfuron methyl Hexythiazox Imazalil Indoxacarb Iodosulfuron-methyl sodium Iprodione Isocarbophos Isofenphos-methyl Isoprocarb Isoprothiolane Kresoxim methyl Lactofen Malathion Mandipropamid Mepronil Mesosulfuron methyl Methamidophos Methidathion Methiocarb Methoxyfenozide Metolachlor Metsulfuron-methyl Mevinphos Molinate Monocrotophos Myclobutanil Nicosulfuron Novaluron Omethoate Oxamyl	In-house Method GL-OR-149 & RE/MWI/003 (LC-MS/MS) (cont'd)

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Fruits, vegetables and egg products (cont'd)	Pesticide residues:- (Against residue definition in RE/MWI/003) (cont'd)  Oxydemeton-methyl Oxyfluorfen Paclobotrazol Parathion Parathion methyl Penconazole Pendimethalin Permethrin Phenmedipham Phenthoate Phosalone Phosmet Piperonyl butoxide Pirimphos Methyl Pretilachlor Profenofos Propanil Propargite Propazine Propiconazole Prothioconazole Prothiofos Pyraclostrobin Pyridaben Pyrimethanil Pyriproxyfen Quinalphos Spinetoram Spirodiclofen Spiromesifen Spirotetramat Spiroxamine Tebuconazole Tebufenozide Teflubenzuron	In-house Method GL-OR-149 & RE/MWI/003 (LC-MS/MS) (cont'd)

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Fruits, vegetables and egg products (cont'd)	Pesticide residues:- (Against residue definition in RE/MWI/003) (cont'd)  Tetraconazole Thiachloprid Tolclofos-methyl Tralkoxydim Triadimefon Triadimenol Triasulfuron Triazophos Tribenuron-methyl Tribufos Tricyclazole Trifloxystrobin Vamidothion Zoxamide	In-house Method GL-OR-149 & RE/MWI/003 (LC-MS/MS) (cont'd)

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Fruits, vegetables and egg products	Pesticide residues:- (Against residue definition in RE/MWI/003)  Acephate Acibenzolar-S-methyl Alachlor Atrazine Bioresmethrin Boscalid Buprofezin Cadusafos Carbaryl Carbofuran Chlorpropham Chlorpyrifos Chlorpyrifos-methyl Chlortoluron Clomazone Clothianidin Dimethoate Dimethomorph Diniconazole Dinotefuran Ethoprophos Etofenprox Etoxazole Fenamidone Fenbuconazole Fenhexamid Fenpropimorph Fenpyroximate Fipronil Florasulam Flumetsulam Fluopicolide Flutriafol Fonofos Fosthiazate Hexythiazox Imazalil	In-house Method GL-OR-150 & RE/MWI/003 (LC-QE-MS)

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Fruits, vegetables and egg products (cont'd)	Pesticide residues:- (Against residue definition in RE/MWI/003) (cont'd)  Indoxacarb Isocarbophos Isoprocarb Isoprothiolane Lactofen Mepronil Mesosulfuron-methyl Methidathion Metolachlor Monocrotophos Omethoate Paclbutrazol Penconazole Pendimethalin Phenthoate Pretilachlor Propanil Propargite Pyridaben Propiconazole Prothioconazole Pyraclostrobin Pyrimethanil Pyriproxyfen Sethoxydim Tebuconazole Tebufenozide Tetraconazole Thiacloprid Tolclofos-methyl Tralkoxydim Triazophos Tribenuron-methyl Tribufos Tricyclazole Trifloxystrobin Vamidothion	In-house Method GL-OR-150 & RE/MWI/003 (LC-QE-MS) (cont'd)



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Fruits, vegetables and cereals	Pesticide residues:- (Against residue definition in RE/MWI/003)  Ethephon	In-house Method GL-OR-154 & RE/MWI/003 (LC-MS/MS)
Fruits, vegetables and cereals	Glyphosate	In-house Method GL-OR-155 & RE/MWI/003 (LC-MS/MS)

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Animal muscle	Veterinary drug residues :- - Aminoglycosides :- Dihydrostreptomycin Gentamicin Neomycin Spectinomycin Streptomycin - Beta-lactams :- Amoxycillin Ampicillin Benzylpenicillin Cloxacillin Dicloxacillin Ceftiofur - Fluoroquinolones :- Ciprofloxacin Danofloxacin Enrofloxacin Flumequine Sarafloxacin - Quinolone :- Oxolinic acid - Polypeptides antibiotics:- Bacitracin Colistin - Hormones :- Dienoestrol Diethylstilboestrol Hexoestrol	In-house Method GL-VD-32 (LC-MS/MS)  In-house Method GL-VD-25 (RIA screening)  In-house Method GL-VD-29 (LC-Fluorescence detection/ LC-MS/MS)  In-house Method GL-VD-34 (LC-MS/MS screening)  In-house Method GL-VD-3 (GC-MS)

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Animal muscle (cont'd)	Veterinary drug residues :- (cont'd)  - Macrolides :- Josamycin Kitasamycin Tylosin  - Lincomycin - Macrolides :- Erythromycin Josamycin Kitasamycin Tylosin - Nitrofurans :- Furaltadone Furazolidone - Trimethoprim - Virginiamycin  - Nitrofurans :- Furaltadone Furazolidone  - Sulphonamides :- Sulfanitran Sulfacetamide Sulfadiazine Sulfapyridine Sulfamethazine Sulfisoxazole Sulfaquinoxaline Sulfathiazole Sulfamerazine Sulfamethizole Sulfamethoxy-pyridazine Dapsone Sulfamethoxazole Sulfadimethoxine	In-house Method GL-VD-21 (LC-Diode array detection)  In-house Method GL-VD-31 (LC-MS/MS screening)  In-house Method GL-VD-11 (LC-UVD/ LC-MS/MS)  In-house Method GL-VD-24 (RIA screening)

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Animal muscle	Veterinary drug residues :- (cont'd)  - Tetracyclines :- Chlortetracycline Doxycycline Oxytetracycline Tetracycline	In-house Method GL-VD-2 (RIA screening) In-house Method GL-VD-30 (LC-UVD/ LC-MS/MS)
Pork and porcine liver	- Antibiotics:- Quinoxaline-2-carboxylic acid	In-house Method GL-VD-8 (GC-MS negative chemical ionization)
Bovine and porcine liver	Ivermectin (22,23-dihydroavermectin B1a)	In-house Method GL-VD-13 (LC-Fluorescence detection)
Animal kidney, liver and muscle	Trimethoprim	In-house Method GL-VD-27 (LC-MS/MS)
Animal muscle, kidney, heart, liver and lung	- Beta-agonists: - Clenbuterol Salbutamol	In-house Method GL-VD-5 (ELISA screening) In-house Method GL-VD-16 (LC-MS/MS)
Animal kidney, liver, muscle and aquatic food	- Chloramphenicol	In-house Method GL-VD-17 (ELISA screening and LC-MS/MS)
Animal kidney, liver and muscle	- Macrolides :- Erythromycin Josamycin Kitasamycin Tylosin	In-house Method GL-VD-28 (LC-MS/MS)
Animal kidney and liver	- Nitrofurans :- Furazolidone	In-house Method GL-VD-12 (LC-UVD/ LC-MS/MS)
Animal kidney, liver and muscle	- Nitroimidazoles :- Dimetridazole Metronidazole	In-house Method GL-VD-22 (GC-MS Negative chemical ionization)

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Animal kidney, liver and muscle Milk Egg Honey	Veterinary drug residues :- (cont'd)  - Nitroimidazoles :- Dimetridazole Metronidazole Hydroxymetronidazole Ronidazole Ipronidazole Hydroxyipronidazole Hydroxydimetridazole	In-house Method GL-VD-39 (LC-MS/MS)

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Animal muscle Porcine kidney and liver	Veterinary drug residues :- (cont'd)  - Sulphonamides :- Sulfacetamide Sulfadiazine Sulfapyridine Sulfamethazine Sulfachlorpyridazine Sulfisoxazole Sulfathiazole Sulfamerazine Sulfamethizole Sulfamethoxy-pyridazine Dapsone Sulfamethoxazole Sulfadimethoxine Sulfaquinoxaline	In-house Method GL-VD-26 (LC-MS/MS)
Aquatic food Fish and Shellfish tissue	- Malachite green and Leucomalachite green - Crystal violet and Leucocrystal violet	In-house method GL-VD-33 (LC-MS/MS)
Aquatic food Fish and Shellfish tissue Honey	- Nitrofurans metabolites - 3-amino-2-oxazolidone (AOZ) 3-amino-5-morpholinomethyl-2-oxazolidinone (AMOZ) 1-aminohydantoin (AHD) Semicarbazide (SEM)	In-house method GL-VD-35 (LC-MS/MS)
Animal muscle and milk	Synthetic hormones :- Dienoestrol Diethylstilboestrol Hexoestrol	In-house Method GL-VD-36 (LC-MS/MS screening)

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Animal-derived food	Veterinary drug residues :- (cont'd)  Chlorpromazine	In-house method GL-VD-37 (LC-MS/MS )
Animal-derived food	Ractopamine	In-house method GL-VD-38 (LC-MS/MS )

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<b>Food 食品</b>		
<b>ITEM TESTED OR MEASURED</b> 測試或量度項目	<b>SPECIFIC TEST OR PROPERTY MEASURED</b> 特定測試或量度的特性	<b>SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED</b> 規範、標準方法或應用技術
Milk	<ul style="list-style-type: none"> <li>- Aminoglycosides :- Dihydrostreptomycin Gentamicin Neomycin Spectinomycin Streptomycin</li> <li>- Beta-lactams :- Amoxicillin Ampicillin Benzylpenicillin Cloxacillin Dicloxacillin Ceftiofur</li> <li>- Macrolides:- Erythromycin Tylosin</li> <li>- Polypeptides antibiotics:- Bacitracin Colistin</li> <li>- Sulphonamides :- Sulfantran Sulfacetamide Sulfadiazine Sulfapyridine Sulfamethazine Sulfisoxazole Sulfaquinoxaline Sulfathiazole Sulfamerazine Sulfamethizole Sulfamethoxy-pyridazine Dapsone Sulfamethoxazole Sulfadimethoxine</li> <li>- Tetracyclines :- Chlortetracycline Oxytetracycline Tetracycline</li> </ul>	<ul style="list-style-type: none"> <li>In-house Method GL-VD-32 (LC-MS/MS screening)</li> <li>In-house Method GL-VD-25 (RIA screening)</li> <li>In-house Method GL-VD-28 (LC-MS/MS)</li> <li>In-house Method GL-VD-34 (LC-MS/MS screening)</li> <li>In-house Method GL-VD-24 (RIA screening)</li> <li>In-house Method GL-VD-2 (RIA screening)</li> </ul>