



No. 039

Hong Kong Productivity Council – Environment and Product Innovation Laboratory
香港生產力促進局 - 環境及產品創新化驗室

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CLIENTELE : Public
服務對象 公眾

ACCREDITED TEST : Chinese Medicine 中藥
CATEGORIES Environmental Testing 環境測試
認可測試類別

SCOPE OF : As shown on the following pages 詳見後頁
ACCREDITATION
認可範圍

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TEST CATEGORY 測試類別	ITEMS, MATERIALS OR PRODUCTS TESTED 測試項目、物料或產品	SPECIFIC TESTS OR PROPERTIES 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 MEDICINE 中藥	Proprietary Chinese Medicine & Chinese Herbal Medicine	, Toxic elements:- Arsenic, Cadmium, Mercury, Lead Pesticide residues:- alpha-BHC beta-BHC delta-BHC Lindane Aldrin Dieldrin Endrin cis-Chlordane Trans-Chlordane Oxychlordane Heptachlor Heptachlor epoxide Hexachlorobenzene Methyl pentachlorophenyl sulphide Pentachloroaniline Quintozene 4,4'- DDD 4,4'- DDE 2,4'- DDT 4,4'- DDT	In-house method TCM-METAL-1 (microwave digestion/ICP-MS) In-house method TCM-OCP-1

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ENVIRONMENTAL TESTING 環境測試	Water and Wastewater	Physical Examination :- Conductivity Colour pH Value Hardness (as CaCO ₃) Total Dissolved Solid dried at 180°C Volatile Suspended Solids ignited at 550°C Total Suspended Solids dried at 103°-105°C Dissolved Oxygen Total solids dried at 103°-105°C Turbidity Trace Metals :- - Acid digestion procedure - Aluminium, Tin - Cadmium - Copper, Chromium - Cobalt, palladium - Silver, Iron, Manganese, Nickel, Lead - Mercury - Zinc	APHA 21e 2510 B APHA 20e 2120 B APHA 21e 4500-H ⁺ B (Glass electrode) APHA 21e 2340 C APHA 17e 2540 C APHA 17e 2540 E APHA 17e 2540 D BS 6068 : Section 2.15 : 1986 APHA 18e 2540 B APHA 18e 2130 B APHA 17e 3030E, APHA 18e 3030 A, 3030 E & 3030 F.3b APHA 17e 3111 D APHA 17e 3111 B In House Method WTM-METAL-4 (Electrothermal) APHA 17e 3113 B In House Method WTM-METAL-4 (Electrothermal) APHA 17e 3111 B APHA 17e 3111 B In House Method WTM-METAL-4 (Electrothermal) In House Method WTM-HG-2 (cold vapour FIMS) APHA 17e 3111 B

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ENVIRONMENTAL TESTING (cont'd) 環境測試 (續上)	Water and Wastewater (cont'd)	Trace Metals :- (cont'd) - Arsenic - Calcium - Sodium - Potassium - Magnesium - Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Gold, Iron, Lead, Manganese, Molybdenum, Nickel, Selenium, Silver, Thallium, Tin, Vanadium, Zinc, Mercury, Aluminium, Sodium, Potassium, Magnesium, and Calcium Non-metallic constituents :- - Total residual chlorine - Chloride - Sulphate - Nitrogen (Ammonia) - Nitrogen (Kjeldahl) - Alkalinity (as CaCO ₃)	In House Method WTM-METAL-4 (Electrothermal) In House Method WTM-CA-1 (Flame Photometry) In House Method WTM-IC-2 (Ion Chromatography) APHA 17e 3500-Na D In House Method WTM-IC-2 (Ion Chromatography) APHA 17e 3500-K D In House Method WTM-IC-2 (Ion Chromatography) APHA 17e 3111B In House Method WTM-IC-2 (Ion Chromatography) In-house method WTM-ICPMS-1 APHA 21e 4500-Cl B APHA 21e 4500-Cl ⁻ B (Argentometric) In House Method WTM-IC-1 (ion chromatography) In House Method WTM-SO4-1 (Gravimetric) In House Method WTM-IC-1 (ion chromatography) APHA 17e 4500-NH ₃ B & E APHA 17e 4500-Norg B & 4500-NH ₃ E APHA 21e 2320 B

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ENVIRONMENTAL TESTING (cont'd) 環境測試 (續上)	Water and Wastewater (cont'd)	Non-metallic constituents :- (cont'd) - Alkalinity (as NaOH) - Total Cyanide - Nitrogen (Nitrite) - Nitrogen (Nitrate) - Oxidized Nitrogen (the sum of NO ₃ ⁻ -N plus NO ₂ ⁻ -N) - Total Reactive Phosphorus - Fluoride - Total Phosphorus Organic Pollutants :- - Oil and grease - Biochemical Oxygen Demand - Chemical Oxygen Demand - Anionic surfactants as MBAS	APHA 21e 2320 B (with modification) APHA 17e 4500-CN C & D APHA 18e 4500-CN C & F APHA 21e 4500-NO ₂ B In House Method WTM-IC-1 (ion chromatography) APHA 21e 4500-NO ₃ E In House Method WTM-IC-1 (ion chromatography) APHA 18e 4500-NO ₃ E APHA 21e 4500-P E APHA 21e 4500-F C APHA 21e 4500-PB.5 & E APHA 20e 5520 B BS 6068 : Section 2.14 : 1990 APHA 21e 5220 B APHA 18e 5220 D ASTM D 1252-88 B 1992 (Low range) In House Method WTM-MBAS-1 (Colorimetric)

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ENVIRONMENTAL TESTING (cont'd) 環境測試 (續上)	Water and Wastewater (cont'd)	Organic Pollutants :- (cont'd) - Total organic carbon - Diesel Range Organics: C10-C28 - Gasoline Range Organics: C6-C10 Total Petroleum Hydrocarbons: C10-C14 C15-C28 C29-C36 - Tributyl tin Polycyclic Aromatic Hydrocarbons: Naphthalene Acenaphthene Acenaphthylene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indo(1,2,3-cd)pyrene Dibenz(a,h)anthracene Benzo(ghi)perylene	ISO 8245 : 1987 (E) In House Method WTM-DRO-1 In House Method WTM-GRO-1 In-house method WTM-DRO-2 In House Method WTM-TBT-1 In-house Method WTM-PAH-1

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ENVIRONMENTAL TESTING (cont'd) 環境測試 (續上)	Water & Wastewater (cont'd)	Volatile Organic Compounds (VOCs) benzene bromobenzene bromochloromethane bromodichloromethane bromoform n-butylbenzene sec-butylbenzene tert-butylbenzene carbon tetrachloride chlorobenzene chloroform 2-chlorotoluene 4-chlorotoluene dibromochloromethane 1,2-dibromoethane dibromomethane 1,2-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,1-dichloroethane 1,2-dichloroethane 1,1-dichloroethene cis-1,2-dichloroethene trans-1,2-dichloroethene dichloromethane 1,2-dichloropropane 1,3-dichloropropane 2,2-dichloropropane 1,1-dichloropropene cis-1,3-dichloropropene trans-1,3-dichloropropene ethyl benzene hexachlorobutadiene isopropylbenzene p-isopropyltoluene n-propylbenzene styrene 1,1,1,2-tetrachloroethane 1,1,2,2-tetrachloroethane tetrachloroethylene toluene 1,2,3-trichlorobenzene 1,2,4-trichlorobenzene 1,1,1-trichloroethane 1,1,2-trichloroethane trichloroethylene 1,2,4-trimethylbenzene 1,3,5-trimethylbenzene m,p-xylene o-xylene	In House Method WTM-VOC-1

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ENVIRONMENTAL TESTING (cont'd) 環境測試 (續上)	Soil and Sediment	<p>Polycyclic Aromatic Hydrocarbons:</p> <p>Naphthalene, Acenaphthene Acenaphthylene, Fluoranthene, Phenanthrene, Anthracene, Fluorene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene, Benzo(ghi)perylene</p> <p>Polychlorinated Biphenyl Congeners:</p> <p>2,4,4'-Trichlorobiphenyl (28) 2,2',5,5'-Tetrachlorobiphenyl (52) 2,2',4,5,5'-Pentachlorobiphenyl (101) 2,3',4,4',5-Pentachlorobiphenyl (118) 2,2',4,4',5,5'-Hexachlorobiphenyl (153) 2,3,3',4,4'-Pentachlorobiphenyl (105) 2,2',3,4,4',5'-Hexachlorobiphenyl (138) 2,2',3,3',4,4'-Hexachlorobiphenyl (128) 2,3,3',4,4',5-Hexachlorobiphenyl (156) 2,2',3,4,4',5,5'-Heptachlorobiphenyl (180)</p> <p>Diesel Range Organics: C10-C28</p> <p>Total Petroleum Hydrocarbons: C10-C14 C15-C28 C29-C36</p>	<p>In House Method Sediment-PAH-1</p> <p>In House Method sediment-PCB-1</p> <p>In House Method sediment-DRO-1</p> <p>In-house method sediment-DRO-2</p>

