



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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地址 香港九龍達之路七十八號生產力大樓四樓

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ACCREDITED TEST : Chinese Medicine 中藥

CATEGORY : Environmental Testing 環境測試

認可測試類別 : Food 食品

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Chinese Medicine 中藥		
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
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 (GC-ECD and GC-MSD (2,4'-DDT only))

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Drinking water	Non-metallic constituents :- - Chlorine (Free residual)	In House Method WTM-CL2-3 (DPD colorimetric method)
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: - Aluminum, Antimony, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Gold, Iron, Lead, Magnesium, Manganese, Molybdenum, Nickel, Potassium, Silver, Sodium, Thallium, Tin, Vanadium and Zinc - Arsenic, Selenium, Mercury - Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Gold, Iron, Lead, Magnesium, Manganese, Mercury, , Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium and 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 18e 3030 A, 3030 E & 3030 F.3b In-house method WTM-ICPMS-1 (nitric acid / hydrochloric acid and nitric acid) In-house method WTM-ICPMS-1 (ICP-MS)

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Water and Wastewater (cont'd)	Non-metallic constituents :- - Total residual chlorine - Chloride - Sulphate - Nitrogen (Ammonia) - Nitrogen (Kjeldahl) - Alkalinity (as CaCO ₃) - Total Cyanide - Nitrogen (Nitrite) - Nitrogen (Nitrate)	APHA 21e 4500-Cl B In House Method WTM-IC-1 (ion chromatography) In House Method WTM-IC-1 (ion chromatography) APHA 17e 4500-NH ₃ B & E APHA 22e 4500-N _{org} B & 4500-NH ₃ C APHA 21e 2320 B In House Method WTM-CN-3 (By FIA) APHA 21e 4500-NO ₂ B In House Method WTM-IC-1 (ion chromatography)

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Water and Wastewater (cont'd)	Non-metallic constituents :- (cont'd) - Total Reactive Phosphorus - Fluoride - Total Phosphorus - Nitrogen (Ammonia) - Nitrogen (Nitrite) - Nitrogen (Nitrate) - Oxidized Nitrogen - Total Nitrogen - Sulphide (in aqueous absorbing solution for air sampling)	APHA 21e 4500-P E APHA 21e 4500-F ⁻ C APHA 21e 4500-PB.5 & E In-house Method WTM-NH ₃ -4 (By FIA) In-house Method WTM-NO ₂ -2 (By FIA) In-house Method WTM-NO ₃ -4 (By FIA) In-house Method WTM-NO ₃ -4 (By FIA) In-house Method WTM-TN-3 (By FIA) APHA 21e 4500-S ²⁻ F

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Water and Wastewater (cont'd)	Organic Pollutants :- - Oil and grease - Biochemical Oxygen Demand - Chemical Oxygen Demand - Anionic surfactants as MBAS - Non-ionic surfactants - Total organic carbon 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	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) In House Method WTM-NIS-1 (Colorimetric) ISO 8245: 1987 (E) In-house Method WTM-PAH-1 (GC/MSD)

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Water and Wastewater (cont'd)	Organic Pollutants :- (cont'd) Polychlorinated biphenyl congeners 2,4'-Dichlorobiphenyl (8) 2,2'5 - Trichlorobiphenyl (18) 2,4,4' - Trichlorobiphenyl (28) 2,2',3,5' - Tetrachlorobiphenyl (44) 2,2', 5,5' - Tetrachlorobiphenyl (52) 2,3',4,4'-Tetrachlorobiphenyl (66) 3,3',4,4'-Tetrachlorobiphenyl (77) 2,2'4,5,5' - Pentachlorobiphenyl (101) 2,3,3'4,4' - Pentachlorobiphenyl (105) 2,3'4,4',5 - Pentachlorobiphenyl (118) 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',4,4',5,5' - Hexachlorobiphenyl (153) 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) 2,2',3,3',4,4',5,6-Octachlorobiphenyl (195) 2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (206)	In House Method WTM-PCB-1 (GC-ECD)

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Water and Wastewater (cont'd)	Organic Pollutants :- (cont'd) Volatile Organic Compounds (VOCs) Benzene; bromodichloromethane; bromoform; chloroform; dibromochloromethane; dichloromethane; 1,2-dichlorobenzene; 1,3-dichlorobenzene; 1,4-dichlorobenzene; ethyl benzene; styrene; tetrachloroethylene; toluene; trichloroethylene; m,p-xylene; o-xylene	In House Method WTM-VOC-2 (GC-MSD)
Sediment and Sludge	Total solids dried at 103-105°C	In House Method WTM-TS-4 (Gravimetric)
Sediment	Trace Metals : (Acid Leachable) - Antimony, Arsenic, Barium, Cadmium, Chromium, Cobalt, Copper, Lead, Mercury, Manganese, Molybdenum, Nickel, Tin, Zinc	In House Method Sediment-Metal-3 (ICP-MS)

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Consumer Products – Paints (Solventborne and Waterborne)	Volatile Organic Compounds (VOCs) Exempt VOCs Acetone Dichloromethane Methyl acetate Parachlorobenzotrifluoride Tetrachloroethylene Volatile content Water content Paint density	In House Method OT-EC-1 (GC/MS) USEPA Method 24 Section 11.2.2 & 11.3.1 (ASTM D2369-10ε1) USEPA Method 24 Section 11.3.2 (ASTM D4017-02 Reapproved 2008) <Excluding the following> App. X2 USEPA Method 24 Section 11.3.3 (ASTM D1475-98 Reapproved 2012)

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Water and Wastewater	Microbiological tests:- - E. coli - Total Coliform - Heterotrophic Plate Count	DoE (1983) The Bacteriological Examination of Drinking Water Supplies, 1982 Membrane Filtration Procedure: Section 7.8 and 7.9.4.2 Bacterial Confirmation: in-situ urease test DoE (1983) The Bacteriological Examination of Drinking Water Supplies, 1982 Membrane Filtration Procedure: Section 7.8 and 7.9.4.1 Bacterial Confirmation: 7.9.4.3 APHA 20e 9215 A&B
Water, Wastewater, and Cooling Tower Water	- Legionellae including <i>Legionella pneumophila</i>	AS/NZS 3896: 1998 AS/NZS 3896: 2008
Drinking Water	- Legionellae including <i>Legionella pneumophila</i>	ISO 11731-2: 2004
Saline Water	Physical examination :- - Total Suspended Solids dried at 103-105°C	APHA 22e 2540D

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Food 食品		
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General foodstuff	Trace metals:- - Antimony, Arsenic, Cadmium, Chromium, Lead, Mercury, Tin	In House Method FD-METAL-1 (ICP-MS)