



ALS Technichem (HK) Pty Limited

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服務對象 公眾



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ACCREDITED TEST : Chemical Testing 化學測試
CATEGORY Chinese Medicine 中藥
認可測試類別 Environmental Testing 環境測試
Food 食品
Pharmaceutical Products 藥物

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Chemical Testing 化學測試		
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
Sodium hypochlorite	Effective Chlorine Content	GB 19106 -2013 cl. 5.3
Sodium hydroxide	Sodium hydroxide content Sodium carbonate content	GB/T 4348.1-2013 GB/T 4348.1-2013

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Chinese Medicine 中藥		
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Chinese Materia Medica	Chemical and physicochemical tests: - 二氧化硫 Sulphur dioxide - 二氧化硫 Sulphur dioxide	中華人民共和國藥典 2015 年版四部 2331 段, 第一法 (酸鹼滴定法) (FD044) Pharmacopoeia of the People's Republic of China 2015, Volume IV, 2331, Method 1 (Acid-base titrimetric method) (FD044) 中華人民共和國藥典 2020 年版四部 2331 段, 第一法 (酸鹼滴定法) (FD044) Pharmacopoeia of the People's Republic of China 2020, Volume IV, 2331, Method 1 (Acid-base titrimetric method) (FD044)
Chinese Herbal Medicines (CHM), including Semen Arecae, Semen Cassiae, Hirudo, Semen Myristicae, Bombyx Batryticatus, Semen Persicae, Semen Platycladi, Radix Polygalae, Fructus Quisqualis, Scolopendra, Semen Sterculiae Lychnophorae, Rhizoma Corydalis, Scorpio, Eupolyphaga seu Steleophaga, Aspongopus, Nidus Vespae <Excluding the following> CHM of mineral origin	Mycotoxins: - - Aflatoxins B ₁ , B ₂ , G ₁ , G ₂ - Sum of aflatoxins B ₁ , B ₂ , G ₁ and G ₂	In-house Method FP-326 (quantitative by UPLC-MS/MS)
中藥材 (CHM), 包括 檳榔, 決明子, 水蛭, 肉豆蔻, 僵蠶, 桃仁, 柏子仁, 遠志, 使君子, 蜈蚣, 胖大海, 延胡索, 全蠍, 土鱉蟲, 九香蟲, 蜂房 <不包括> 源於礦物的藥材	霉菌毒素: - - 黃曲霉毒素 B ₁ , B ₂ , G ₁ , G ₂ - 總黃曲霉毒素 B ₁ , B ₂ , G ₁ 和 G ₂	In-house Method FP-326 (quantitative by UPLC-MS/MS)
Decoction of Chinese Herb Medicines (dCHM)	Trace elements: - - Arsenic, Cadmium, Copper, Lead and Mercury	In house method EG054 (ICP-MS)

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<p>Chinese Herbal Medicine (CHM) excluding CHM of animal and mineral origin</p>	<p>Pesticide residues:-</p> <ul style="list-style-type: none"> - Organophosphorus Pesticides Methamidophos, Parathion-methyl, Parathion, Monocrotophos, Phosphamidon, Fenamiphos, Fenamiphos sulphoxide, Fenamiphos sulphone, Fonofos, Cadusafos, Coumaphos, Sulfotep, Terbufos, Terbufos sulphoxide, Terbufos sulphone, Phorate, Phorate sulphoxide, Phorate sulphone, Isofenphos-methyl, O-Demeton, S-Demeton, Ethoprophos, Isazofos, Isocarbophos, Phosfolan, Phosfolan-methyl, - Organochlorine Pesticides α- hexachlorocyclohexane, β-hexachlorocyclohexane, γ-hexachlorocyclohexane, δ-hexachlorocyclohexane, p,p'-DDT, o,p'-DDT, p,p'-DDE, p,p'-TDE, Chlordimeform, Nitrofen, Aldrin, Dieldrin, α-Endosulfan, β-Endosulfan, Endosulfan sulphate, Fipronil, Fipronil desulfinyl, Fipronil sulfoxide, Fipronil sulfone, o,p'-dicofol, p,p'-dicofol, Chlorsulfuron - Carbamate Carbofuran, Carbofuran-3-hydroxy, Aldicarb, Aldicarb sulphoxide, Aldicarb sulphone - Others Ethametsulfuron-methyl, Metsulfuron-methyl 	<p>In House method EP397 (by GC-MS/MS & LC-MS/MS)</p>

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Chinese Herbal Medicine (CHM) excluding CHM of animal and mineral origin	- Organophosphorus Pesticides Fenamiphos (sum of Fenamiphos, Fenamiphos sulphoxide, and Fenamiphos sulphone, expressed as Fenamiphos)	In-house method EP397 (By calculation)
	Terbufos (sum of Terbufos, Terbufos sulphoxide, and Terbufos sulphone, expressed as Terbufos)	In-house method EP397 (By calculation)
	Phorate (sum of Phorate, Phorate sulphoxide, and Phorate sulphone, expressed as Phorate)	In-house method EP397 (By calculation)
	Demeton (sum of O-Demeton and S-Demeton, expressed as Demeton)	In-house method EP397 (By calculation)
	- Organochlorine Pesticides Hexachlorocyclohexane (sum of α -hexachlorocyclohexane, β -hexachlorocyclohexane, γ -hexachlorocyclohexane and δ -hexachlorocyclohexane, expressed as Hexachlorocyclohexane)	In-house method EP397 (By calculation)
	DDT (sum of p,p'-DDT, o,p'-DDT, p,p'-DDE and p,p'-TDE, expressed as DDT)	In-house method EP397 (By calculation)
	Endosulfan (sum of α -Endosulfan, β -Endosulfan, and Endosulfan sulphate, expressed as Endosulfan)	In-house method EP397 (By calculation)
	Fipronil (sum of Fipronil, Fipronil desulfinyl, Fipronil sulfoxide, and Fipronil sulfone, expressed as Fipronil)	In-house method EP397 (By calculation)
	Dicofol (sum of o,p'-dicofol and p,p'-dicofol, expressed as Dicofol)	In-house method EP397 (By calculation)
	- Carbamate Carbofuran (sum of Carbofuran and Carbofuran-3-hydroxy, expressed as Carbofuran)	In-house method EP397 (By calculation)
Aldicarb (sum of Aldicarb, Aldicarb sulphoxide, and Aldicarb sulphone, expressed as Aldicarb)	In-house method EP397 (By calculation)	

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Chinese Medicated Oil	Pesticide residues:-	
	- Organochlorine pesticides Aldrin, Dieldrin, Endrin, cis-Chlordane, trans-Chlordane, Oxychlordane p,p'-DDT, o,p'-DDT, p,p'-DDE, p,p'-TDE, Heptachlor, Heptachlor epoxide, Hexachlorobenzene, alpha-BHC, beta-BHC, delta-BHC, Lindane (gamma-BHC), Methyl pentachlorophenyl sulphide, Pentachloroaniline, Quintozene (pentachloronitrobenzene), α-Endosulfan, β-Endosulfan, Endosulfan sulphate	In-house Method EP111 (GC-MS/MS)
	- Organochlorine pesticides Aldrin and Dieldrin (Sum of Aldrin and Dieldrin)	In-house method EP111 (By calculation)
	Chlordane (sum of cis-Chlordane, trans-Chlordane, and Oxychlordane)	In-house method EP111 (By calculation)
	DDT (sum of p,p'-DDT, o,p'-DDT, p,p'-DDE, and p,p'-TDE)	In-house method EP111 (By calculation)
	Heptachlor (sum of heptachlor and heptachlor epoxide)	In-house method EP111 (By calculation)
	BHC isomers (sum of alpha-BHC, beta-BHC, and delta-BHC)	In-house method EP111 (By calculation)
Quintozene (sum of quintozene, pentachloroaniline, and methyl pentachlorophenyl sulphide)	In-house method EP111 (By calculation)	

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Proprietary Chinese Medicines and Chinese Herbal Medicines	<p>Microbiological examination:-</p> <p>微生物限度檢查法 Microbial Limit Test</p> <ul style="list-style-type: none"> - 細菌數 Aerobic bacteria count - 霉菌與酵母菌數 Mould and yeast count - 大腸埃希菌 <i>E. coli</i> - 銅綠假單胞菌 <i>Pseudomonas aeruginosa</i> - 金黃色葡萄球菌 <i>Staphylococcus aureus</i> - 沙門菌 <i>Salmonella</i> species <p>- 微生物限度檢查法 Microbial Limit Test</p> <p>細菌數 Aerobic bacteria count</p> <p>霉菌與酵母菌數 Mold and Yeast count</p> <p>大腸埃希菌 <i>E. coli</i></p> <p>沙門菌 <i>Salmonella</i></p> <p>大腸菌群 Coliform</p> <p>- Microbial Enumeration Tests and Tests for Specified Microorganisms</p> <p>微生物計數法及控制菌檢查法</p> <p>需氧菌總數 Total Aerobic Microbial Count</p> <p>霉菌和酵母菌總數 Total Combined Yeast and Mold Count</p> <p>大腸埃希菌 <i>E. coli</i></p> <p>白色念珠菌 <i>Candida albicans</i></p> <p>梭菌 <i>Clostridium</i></p> <p>金黃色葡萄球菌 <i>Staphylococcus aureus</i></p> <p>沙門菌 <i>Salmonella</i></p> <p>耐膽鹽革蘭陰性菌 Bile-tolerant Gram negative bacteria</p> <p>銅綠假單胞菌 <i>Pseudomonas aeruginosa</i></p>	<p>中華人民共和國藥典2000年版一部附錄XIII C Pharmacopoeia of the People's Republic of China 2000, Volume I, App. XIII C</p> <p>中華人民共和國藥典2010年版一部附錄XIII C Pharmacopoeia of the People's Republic of China 2010, Volume I, App. XIII C (Chinese Edition)</p> <p>中華人民共和國藥典 2015 年版四部 1105 & 1106 段, 非無菌產品微生物限度檢查: 微生物計數法及控制菌檢查法</p> <p>Pharmacopoeia of the People's Republic of China 2015, Volume IV, 1105 & 1106</p>

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<p>Proprietary Chinese Medicines and Chinese Herbal Medicines</p>	<p>Microbiological examination:-</p> <p>- Microbial Enumeration Tests and Tests for Specified Microorganisms 微生物計數法及控制菌檢查法</p> <p>需氧菌總數 Total Aerobic Microbial Count 霉菌和酵母菌總數 Total Combined Yeast and Mold Count 大腸埃希菌 <i>E. coli</i> 白色念珠菌 <i>Candida albicans</i> 梭菌 <i>Clostridium</i> 金黃色葡萄球菌 <i>Staphylococcus aureus</i> 沙門菌 <i>Salmonella</i> 耐膽鹽革蘭陰性菌 Bile-tolerant Gram negative bacteria 銅綠假單胞菌 <i>Pseudomonas aeruginosa</i></p> <p>- Microbial Enumeration Tests and Tests for Specified Microorganisms 微生物計數法及控制菌檢查法</p> <p>需氧菌總數 Total Aerobic Microbial Count 霉菌和酵母菌總數 Total Combined Yeast and Mold Count 大腸埃希菌 <i>E. coli</i> 白色念珠菌 <i>Candida albicans</i> 梭菌 <i>Clostridium</i> 金黃色葡萄球菌 <i>Staphylococcus aureus</i> 沙門菌 <i>Salmonella</i> 耐膽鹽革蘭陰性菌 Bile-tolerant Gram negative bacteria 銅綠假單胞菌 <i>Pseudomonas aeruginosa</i></p>	<p>中華人民共和國藥典 2020 年版四部 1105 & 1106 段, 非無菌產品微生物限度檢查: 微生物計數法及控制菌檢查法</p> <p>Pharmacopoeia of the People's Republic of China 2020, Volume IV, 1105 & 1106</p> <p>中華人民共和國藥典 2025 年版四部 1105 & 1106 段, 非無菌產品微生物限度檢查: 微生物計數法及控制菌檢查法</p> <p>Pharmacopoeia of the People's Republic of China 2025, Volume IV, 1105 & 1106</p>

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<p>Chinese Materia Medica and prepared pieces of Chinese Materia Medica (Decotion of Chinese Medicine)</p>	<p>Microbiological examination:-</p> <p>- Microbial Enumeration Tests and Tests for Specified Microorganisms 微生物計數法及控制菌檢查法</p> <p>需氧菌總數 Total Aerobic Microbial Count 霉菌和酵母菌總數 Total Combined Yeast and Mold Count 耐熱菌總數 Total Thermal-tolerant Microbial Count 大腸埃希菌 <i>E. coli</i> 耐膽鹽革蘭陰性菌 Bile-tolerant Gram negative bacteria 沙門菌 <i>Salmonella</i></p> <p>- Microbial Enumeration Tests and Tests for Specified Microorganisms 微生物計數法及控制菌檢查法</p> <p>需氧菌總數 Total Aerobic Microbial Count 霉菌和酵母菌總數 Total Combined Yeast and Mold Count 耐熱菌總數 Total Thermal-tolerant Microbial Count 大腸埃希菌 <i>E. coli</i> 耐膽鹽革蘭陰性菌 Bile-tolerant Gram negative bacteria 沙門菌 <i>Salmonella</i></p>	<p>中華人民共和國藥典 2020 年版四部 1108 段 微生物計數法及控制菌檢查法</p> <p>Pharmacopoeia of the People's Republic of China 2020, Volume IV, 1108</p> <p>中華人民共和國藥典 2025 年版四部 1108 段 微生物計數法及控制菌檢查法</p> <p>Pharmacopoeia of the People's Republic of China 2025, Volume IV, 1108</p>

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Environmental Testing 環境測試		
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Gas samples from ambient air, process emissions and surface emissions	Physical examination - Odour concentration measurement	BS EN 13725:2022 EN 13725:2022 (By dynamic olfactometry) < <i>Excluding the following</i> > for the above two standards Section 5.2, 8, 9.1 – 9.3
Ambient air	Volatile Organic Compounds: - Freon 12 (dichlorodifluoromethane) Chloromethane (Methyl chloride) Freon 114 (1,2-dichloro-1,1,2,2-tetrafluoroethane) Chloroethene (Vinyl chloride) Bromomethane Chloroethane Freon 11 (Trichlorofluoromethane) 1,1-Dichloroethene Dichloromethane (Methylene chloride) Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane) 1,1-Dichloroethane cis-1,2-dichloroethene Chloroform 1,2-Dichloroethane 1,1,1-Trichloroethane Benzene Carbon tetrachloride 1,2-Dichloropropane Trichloroethylene cis-1,3-dichloropropene trans-1,3-dichloropropene 1,1,2-trichloroethane Toluene 1,2-dibromoethane Tetrachloroethylene Chlorobenzene Ethylbenzene m-/p-xylene Styrene	In House Method AP074 (GC/MSD)

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Ambient air (Extractable components collected onto adsorbent cartridges)	- Acetaldehyde - Formaldehyde	USPEA TO-11A (January 1999) (AP010-ACT) <Excluding air sampling>
Indoor Air Quality Testing	Extractable components collected in passive samplers: - - Acetaldehyde - Formaldehyde - Nitrogen dioxide Microbiological examinations: -	 In-house method AP010 (By HPLC) In-house method AP010 (By HPLC) In-house method AK057/EK057K (Discrete analyzer)
Collectate sampled by Microbio Air Sampler MB2	- Airborne bacteria count (number of colonies & corrected of colonies on agar plate) (30°C for 2 days)	In house method AM401
Collectate samples on agar plate	- Airborne bacteria count (number of colonies on agar plate) (30°C for 2 days)	In house method AM401
Collectate samples on agar strip	- Airborne bacteria count (number of colonies on agar strip) (30°C for 2 days)	In house method AM401
Collectate sampled by Microbio Air Sampler MB2	- Airborne fungi count (number of colonies & corrected number of colonies on agar plate) (25°C for 5 days)	In house method AM405
Collectate samples on agar plate	- Airborne fungi count (number of colonies on agar plate) (25°C for 5 days)	In house method AM405

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Stationary Source Emission	Air Quality Checking :- - Selection of sampling points and velocity traverse points - Determination of the average stack gas velocity and the volumetric flow rate (by Type S Pitot Tube) - Determination of the dry molecular weight of stack gas (by Orsat analyzer) - Determination of the moisture content of stack gas - Determination of particulate matter emissions - Determination of hydrogen halides and halogens emissions (isokinetic method) - Determination of mercury emissions	40 CFR Part 60 Appendix A-1 Test method 1, 1 July 2018 <i><Excluding the following></i> Cl. 11.5 Appendix A-1 Test method 2, 1 July 2018 Appendix A-2 Test method 3, 1 July 2018 Appendix A-3 Test method 4, 1 July 2018 <i><Excluding the following></i> Cl. 8.2, 11.2, 12.2 Appendix A-3 Test method 5, 1 July 2018 Appendix A-8 Test method 26A, 1 July 2018 <i><Excluding the following></i> Cl. 10.2, 11.1 in conjunction with In-house method ED009 (Ion Chromatography) for determination of halide ions in acidic and alkaline absorbing solutions Appendix A-8 Test method 29, 1 July 2018

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Stationary Source Emission	Air Quality Checking :- (cont'd):- - Sampling of emission from waste gas ducts for subsequent measurements - Determination of the axial velocity and volume flow rate of gas within emissions ducts and stacks (by Type S Pitot Tube) - Isokinetic sampling of stack gas - Determination of the water vapour content using standard reference method - Determination of the total emission of Sb, As, Cd, Cr, Co, Cu, Pb, Mn, Ni, TI and V - Determination of the concentration of total mercury using manual method - Determination of oxygen, carbon dioxide and carbon monoxide concentration - Determination of Nitrogen Oxide (NOx) concentration	BS EN 15259: 2007 ISO 16911-1: 2013 BS EN 13284: 2017 <i><Excluding the following></i> Cl. 7.3, 7.4, 8, 9, 10.2 and 11 BS EN 14790: 2017 BS EN 14385: 2004 BS EN 13211: 2001 ISO 12039: 2019 BS EN 14792: 2005

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Water and Wastewater	Physical Examination :- - Conductivity - pH Value - Solids-Total - Solids-Total Suspended - Solids-Total Dissolved - Solids-Fixed and Volatile - Settleable solids - Volatile and Fixed Suspended Solids - Turbidity - Hardness	APHA 23e 2510 (EA010) APHA 23e 4500-H ⁺ B (EA002) In-house Method EA030 (Gravimetric) APHA 23e 2540D (EA025B) In-house Method EA025 (Gravimetric) In-house Method EA015 (Gravimetric) In-house Method EA035 (Gravimetric) APHA 23e 2540F (EA034B) APHA 23e 2540E (EA035A) APHA 23e 2130 (EA045) APHA 22e 2340B (By calculation) (EA065)
Drinking Water	- Colour	ISO 7887:1994 Section 4 (EA041)
Water and Wastewater	- Acidity - Alkalinity-Total - Alkalinity-Bicarbonate - Alkalinity-Carbonate - Alkalinity-Hydroxide Non-metallic Constituents :- - Bromide - Bromate - Carbon-Total Inorganic - Chlorine-Total Residual - Chlorine-Free Residual	APHA 23e 2310 A & B (ED038) APHA 23e 2320 A & B (ED037) APHA 23e 2320 A & B (ED035) APHA 23e 2320 A & B (ED030) APHA 23e 2320 A & B (ED025) In-house method ED009 (Ion Chromatography) In-house method ED013 (Ion Chromatography) In-house Method EP006 (NDIR) APHA 23e 4500-Cl G (EK010) In-house Method EK010C In-house Method EK011 In-house Method EK011C

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Water and Wastewater (cont'd)	Non-metallic Constituents :- (cont'd)	
	- Chloride	In-house Method ED045K (Discrete analyzer) In-house method ED009 (Ion Chromatography)
	- Chlorite	In-house method ED013 (Ion Chromatography)
	- Chlorate	In-house method ED013 (Ion Chromatography)
	- Cyanide-Total	In-house Method EK026FIA (FIA)
	- Cyanide-Free	In-house Method EK025A (FIA)
	- Fluoride	APHA 23e 4500 F ⁻ A&C (EK040) In-house method ED009 (Ion Chromatography)
	- Nitrate	In-house method ED009 (Ion Chromatography)
	- Nitrogen-Total	In-house Method EK062A (FIA) In-house Method EK062P (Persulphate method)
	- Nitrogen-Total Kjeldahl	In-house Method EK061A (FIA) In-house Method EK061P (By Calculation)
	- Nitrogen- Total Inorganic	In-house Method EK063A (By Calculation)
	- Nitrogen-Ammonia	In-house Method EK055A (FIA) In-house Method EK055K (Discrete analyzer)
	- Nitrogen-Nitrate	In-house Method EK058A (FIA) In-house Method EK058K (Discrete analyzer)
	- Nitrogen-Nitrate+Nitrite	In-house Method EK059A (FIA) In-house Method EK059K (Discrete analyzer)
	- Nitrogen-Nitrite	In-house Method EK057A (FIA) In-house Method EK057K (Discrete analyzer)
	- Oxygen-Dissolved	In-house Method EP025 (Titrimetric)
	- Dissolved Organic Carbon	In-house Method EP002 (Total Organic Carbon analyzer)
	- Perchlorate	In-house method ED013 (Ion Chromatography)
- Phosphorus-Reactive	In-house Method EK071A (FIA) In-house Method EK071K (Discrete analyzer)	

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Water and Wastewater (cont'd)	Non-metallic Constituents :- (cont'd) - Phosphorus-Total - Silica - Sulphate - Sulphide - Soluble sulphide	In-house Method EK067A (FIA) In-house Method EK067P (Persulphate method) In-house Method EK053K (Discrete analyzer) In-house Method ED041K (Discrete analyzer) In-house method ED009 (Ion Chromatography) APHA 23e 4500 S ²⁻ -D (with modification) (EK085) APHA 23e 4500-S ²⁻ , B, C & D (EK085F)
Water and Wastewater	Trace Metals (Soluble): - - Sample preparation procedure - Hexavalent Chromium (Cr ⁶⁺) - Trivalent Chromium (Cr ³⁺)	In-house method E-filter In House Method EG050 (Colorimetric) In house method EG049 (by calculation)
Water and Wastewater	Trace Metals (Soluble and total): - - Digestion procedure - Aluminium, Antimony, Arsenic, Barium, Beryllium, Bismuth, Boron, Cadmium, Chromium, Cobalt, Copper, Gold, Lead, Lithium, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Selenium, Silver, Strontium, Thallium, Tin, Titanium, Tungsten, Vanadium, Zinc - Mercury - Calcium, Magnesium, Iron, Potassium, Sodium	In House Method E-3005 In House Method E-filter In House Method EG020 (ICP-MS) In-house Method EG038 (By mercury analyzer) In-house method EG032 (ICP-AES)

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Water and Wastewater	Organic Pollutants : - Biochemical Oxygen Demand (BOD) - Chemical Oxygen Demand (COD) - Carbon-Total - Carbon-Total Organic - Nitrogen-Organic - Oil and Grease - Phenols-Total - Surfactants-Non-ionic (as CTAS) - Surfactants-Anionic (as MBAS) - Surfactants-Total (Anionic and Non-ionic) - Total Petroleum Hydrocarbon - Volatile acids (as Acetic Acid)	In-house Method EP030 (5-Day Electrode) BS EN 1899-1:1998 & BS 6068: Section 2.63:1998 (EP030BS) In-house Method EP026 (Open Reflux-Titrimetric) APHA 23e 5220C (EP026C) In-house Method EP007 (NDIR) In-house Method EP005 (NDIR) In-house Method EK060A (By Calculation) In-house Method EP020 (Gravimetric) APHA 23e 5530 A, B & D (with modification) (EP035) In-house Method EP041 (Colorimetric) APHA 23e 5540 A&C (without sublation) (EP050) In-house Method EP051 (By Calculation) In-house Method EP015 (Gravimetric) In-house Method EP045 (By steam distillation)
Water and Wastewater	Biological Examination: - Chlorophyll a	In House Method EP008F

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Water and Wastewater (cont'd)	Organic Pollutants :- (cont'd) - Trihalomethanes: Chloroform Bromodichloromethane Dibromochloromethane Bromoform - Total Trihalomethanes: Sum of Chloroform, Bromodichloromethane, Dibromochloromethane, and Bromoform - Sum ratio of total trihalomethanes: Sum of Chloroform/300, Bromodichloromethane/60, Dibromochloromethane/100, and Bromoform/100 - Naphthalene - Methyl-tert-butyl ether (MTBE) - BTEX: Benzene Toluene Chlorobenzene Ethylbenzene meta- & para-Xylene ortho-Xylene - Tributyl tin - Tributyl tin in interstitial water - Triphenyl tin - Triphenyl tin in interstitial water - Total polychlorinated biphenyls	In House Method EP074_SR – G (Purge and Trap GC/MSD) In House Method EP074_SR – G (by calculation) In House Method EP074_SR – G (by calculation) In House Method EP074_SR – H (Purge and Trap GC/MSD) In House Method EP074_SR – I (Purge and Trap GC/MSD) In House Method EP080_SR (Purge and Trap GC/MSD) In House Method EP390 (By LC-MS/MS) In House Method EP390 (By LC-MS/MS) In House Method EP390 (By LC-MS/MS) In House Method EP390 (By LC-MS/MS) In House Method EP066_67 (PTV-GC/MSD)

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Potable water and tap water	Organic Pollutants :- (cont'd)	
	- Haloacetic acids Chloroacetic acid Dichloroacetic acid Trichloroacetic acid Bromoacetic acid Bromochloroacetic acid Bromodichloroacetic acid Dibromoacetic acid Chlorodibromoacetic acid Tribromoacetic acid Dalapon	In House Method EP392 (by LC-MS/MS)
	Total Haloacetic acids (sum of Chloroacetic acid, Dichloroacetic acid, Trichloroacetic acid, Bromoacetic acid and Dibromoacetic acid)	In House Method EP392 (by calculation)
	Sum of Chloroacetic acid, Dichloroacetic acid, Trichloroacetic acid, Bromoacetic acid, Dibromoacetic acid, Tribromoacetic acid, Bromochloroacetic acid, Bromodichloroacetic Acid and Chlorodibromoacetic acid	In House Method EP392 (by calculation)

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Water and Wastewater and Saline water	Microbiological examinations:- - <i>E. coli</i>	DoE (1983) The Bacteriological Examination of Drinking Water Supplies, 1982 Sections 7.8 and 7.9 (Membrane Filtration Procedure: Section 7.8, 7.9.4.2) Bacterial Confirmation: Section 7.9.4.4 and urease test (Appl. Environ. Microbiol. 29, p826-833) (EM002) DoE (1983) The Bacteriological Examination of Drinking Water Supplies, 1982 Sections 7.8 and 7.9 (Membrane Filtration Procedure: Section 7.8, 7.9.4.2) Bacterial Confirmation: urease test (Appl. Environ. Microbiol. 29, p826-833) (EM002a)
Water and Wastewater	- Heterotrophic plate count (Colony count at 35°C) (Colony count at 37°C) - Total Coliform - Faecal Coliform - Enumeration of <i>Enterococci</i> - <i>Pseudomonas aeruginosa</i> - <i>Staphylococcus aureus</i>	APHA 24e 9215A & B (EM001) DoE (1983) The Bacteriological Examination of Drinking Water Supplies, 1982 Sections 7.8 and 7.9 (Membrane Filtration Procedure: Section 7.8, 7.9.4.1) Bacterial Confirmation: Section 7.9.4.3) (EM003) DoE (1983) The Bacteriological Examination of Drinking Water Supplies, 1982 Sections 7.8 and 7.9 (Membrane Filtration Procedure: Section 7.8, 7.9.4.2) Bacterial Confirmation: Section 7.7.6.3) (EM004) United States Environmental Protection Agency Method 1600: Enterococci in water by membrane filtration using membrane Enterococcus Indoxyl-β-D-Glucoside Agar (mEI) (EM010) ISO 16266:2006 (E) (Membrane filtration) (EM009) BS EN ISO 16266:2008 (EM009) (Membrane filtration) Health Protection Agency (2007) National Standard Method, W10, Issue 3.3 (Membrane filtration) (EM008)

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Water and Wastewater and Saline water	Microbiological examinations:- (cont'd) - <i>Vibrio cholerae</i>	Centres for Disease Control and Prevention - Laboratory Methods for Diagnosis of <i>Vibrio cholerae</i> Ch. V & VI (EM011) <Ecluding the following> Ch. VI, Part C, Part D, Part E
Water and Wastewater (excluding drinking water) and Saline water	- <i>Vibrio parahaemolyticus</i> - Enumeration of <i>E. coli</i>	APHA 24e 9278 (EM018a) Environmental Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3, Environmental Protection Department, HK (EM019)
Marine water	- Faecal Coliform - Enumeration of <i>Enterococci</i>	Environmental Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3, Environmental Protection Department, HK (EM022) United States Environmental Protection Agency Method 1600: Enterococci in water by membrane Filtration using membrane Enterococcus Indoxyl-β-D-Glucoside Agar (mEI) (EM010)
Marine water (including beach water)	- Total <i>Staphylococci</i> and <i>Staphylococcus aureus</i>	APHA 24e 9213D (EM040)

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	Microbiological examinations:- (cont'd)	
Drinking Water, Treated Bathing Water, Water for human use and consumption	- <i>Legionella spp.</i> including <i>Legionella pneumophila</i>	ISO 11731:2017 (EM016B)
Water and wastewater, Cooling tower water and surface swab samples	- <i>Legionella spp.</i> including <i>Legionella pneumophila</i>	ISO 11731:2017 (EM039)
Water, Wastewater, and Cooling Tower Water	- <i>Legionella spp.</i> including <i>Legionella pneumophila</i>	AS/NZS 3896:1998 (EM016)
Water and Wastewater and Cooling tower water	- <i>Legionella spp.</i> including <i>Legionella pneumophila</i>	AS 3896:2017 (EM016a)

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Saline water	Physical Examination:-	
	- Solids-Total Suspended	APHA 23e 2540D (EA025B) In-house Method EA025
	- Volatile and Fixed Suspended Solids	APHA23e 2540E (EA035A)
	Non-metallic Constituents :-	
	- Carbon-Total Inorganic	In-house Method EP006 (NDIR)
	- Dissolved Organic Carbon	In-house Method EP002 (Total Organic Carbon analyzer)
	- Nitrogen-Ammonia	In-house Method EK055A (FIA) In-house Method EK055K (Discrete analyzer)
	- Nitrogen-Nitrate	In-house Method EK058A (FIA) In-house Method EK058K (Discrete analyzer)
	- Nitrogen-Nitrate+Nitrite	In-house Method EK059A (FIA) In-house Method EK059K (Discrete analyzer)
	- Nitrogen-Nitrite	In-house Method EK057A (FIA) In-house Method EK057K (Discrete analyzer)
	- Nitrogen-Total	In-house Method EK062P (Persulphate method) In-house Method EK062A (By calculation)
	- Nitrogen-Total Inorganic	In-house Method EK063A (By calculation)
	- Nitrogen- Total Kjeldahl	In-house Method EK061A (FIA) In-house method EK061P (By calculation)
	- Phosphorus-Reactive	In-house Method EK071A (FIA) In-house Method EK071K (Discrete analyzer)
	- Phosphorus-Total	In-house Method EK067A (FIA) In-house Method EK067P (Persulphate method)
	- Silica	In-house Method EK053K (Discrete analyzer)
	- Bromide`	In-house method EG055 (ICPMS)

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Saline water (cont'd)	Trace metals (soluble and total):- - Digestion procedure - Arsenic, Aluminium, Antimony, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Nickel, Silver, Thallium, Tin, Selenium, Vanadium, Zinc - Mercury Organic Pollutants :- - Carbon-Total - Carbon-Total Organic - Total polychlorinated biphenyls - Organochlorine Pesticides: alpha-BHC beta-BHC delta BHC gamma-BHC Heptachlor Aldrin Heptachlor epoxide Endosulfan 1 p,p'DDE Dieldrin Endrin Endosulfan 2 p,p'DDD Endrin aldehyde Endosulfan sulfate p,p'DDT Endrin Ketone Methoxychlor Cypermethrins Cis-Chlordane Trans-Chlordane Hexachlorobenzene	In-house method E-filter In-house method E-3005 In-house method EG029 (ICP-MS – He mode) In-house Method EG038 (By mercury analyzer) In-house Method EP007 (NDIR) In-house Method EP005 (NDIR) In House Method EP066_67 (PTV-GC/MSD) In House Method EP067A (GC/MSD)

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Saline water (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) 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',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',5,6 - Octachlorobiphenyl (195) 2,2',3,3',4,4',5,5',6 - Nonachlorobiphenyl (206)	In house method EP065 (GC/MSD)
Marine water	- Tributyl tin - Tributyl tin in interstitial water -Triphenyl tin -Triphenyl tin in interstitial water Biological Examination: - Chlorophyll a	In-house Method EP390 (By LC-MS/MS) In-house Method EP390 (By LC-MS/MS) In-house Method EP390 (By LC-MS/MS) In-house Method EP390 (By LC-MS/MS) In House Method EP008F

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Sediment and Soil	Trace Metals (Acid Leachable): - Hexavalent Chromium Cr (VI) - Trivalent Chromium Cr (III) - Digestion procedure - Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Molybdenum, Nickel, Selenium, Silver, Thallium, Tin, Vanadium, Zinc, Mercury - Digestion procedure - Antimony, Arsenic, Barium, Beryllium, Bismuth, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Molybdenum, Nickel, Selenium, Silver, Strontium, Thallium, Tin, Vanadium, Zinc, Mercury - Digestion procedure - Calcium, Iron, Magnesium, Potassium, Sodium - Digestion procedure - Mercury	In House Method EG3060 (ICP-MS) In house method EG049 (by calculation) In House Method E-ASTM D3974-09 (hydrochloric/nitric acid) In House Method EG020 (ICP-MS) In House Method E-3051A (microwave) In House Method EG020 (ICP-MS) In House Method E-ASTM D3974-09 (hydrochloric/nitric acid) In House Method EG032 (ICP-AES) In House Method E-ASTM D3974-09 (hydrochloric/nitric acid) In House Method E-3051A (microwave) In House Method EG036 (Cold vapour)
Sand	Trace Metals (Acid Leachable): - Digestion procedure - Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Molybdenum, Nickel, Mercury Selenium, Silver, Thallium, Tin, Zinc	In House Method E-ASTM(Sand) (hydrochloric/nitric acid) In House Method EG020 (ICP-MS)

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Sediment and soil, ash, cement and the mixture of the above	TCLP Metals : (Toxicity Characteristic Leaching Procedures) - Extraction procedure - Beryllium, Vanadium, Chromium, Copper, Manganese, Cobalt, Nickel, Cadmium, Zinc, Arsenic, Molybdenum, Selenium, Barium, Thallium, Lead, Silver, Tin, Antimony - Mercury	USEPA SW-846 Method 1311 (E-TCLP) In House Method EG020 (ICP-MS) In House Method EG036 (Cold vapour)

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Sediment and Soil	Physical Examination :	
	- Moisture (103 °C – 105 °C)	In-house Method EA055 (Gravimetric)
	- Solids-Total (103 °C – 105 °C)	In-house Method EA030A (Gravimetric)
Soil	- 1:5 Soil: Water Extraction Procedure	In-house method E-1:5P
	pH Value of 1:5 soil / water extract	In-house method EA002SOIL
	Conductivity of 1:5 soil /water extract	In-house method EA010SOIL
Sediment and Soil	Non-metallic Constituents:-	
	- Cyanide-Total	In-house Method EK026FIA (FIA)
	- Cyanide- Free	In-house Method EK025MD/EK026A (Colorimetric) In house method EK025MD/EK025A (FIA)
	- Carbon-Total Inorganic	In-house Method EP006 (NDIR)
Sediments	- Acid Volatile Sulphide	USEPA 821/R-91-100 (EK082)
Soil	- Nitrogen-Total Kjeldahl	In-house Method EK061A (FIA)
	- Total Phosphorus	In-house method EK067A
	Non-metallic Constituents (extractable): -	
	- 1:5 Solid: KCl solution Extraction Procedure	In-house method E-1:5 KCl PR
	- Nitrogen-Ammonia	In-house Method EK055S (Discrete analyser)
	- Nitrogen-Nitrate+Nitrite	In-house Method EK059A (FIA)
	- Nitrogen-Nitrate	In-house Method EK058A (FIA)
	- Nitrogen-Nitrite	In-house Method EK057A (FIA)
Sediment and Soil	Organic Pollutants :-	
	- Carbon-Total	In-house Method EP007 (NDIR)
	- Carbon-Total Organic	In-house Method EP005 (NDIR) In-house Method EP009 (Acid pre-treatment)

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Environmental Testing 環境測試		
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Sediment and Soil (cont'd)	Organic Pollutants :- (cont'd)	
	- Polycyclic Aromatic Hydrocarbons: Naphthalene Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benz(a)anthracene Chrysene Benzo(b)&(k) fluoranthene Benzo(a)pyrene Benzo(e)pyrene Perylene Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene Benzo(g,h,i)perylene	In House Method EP076 (GC/MSD)
	- Polycyclic Aromatic Hydrocarbons Naphthalene Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benz(a)anthracene Chrysene Benzo(b)&(k) fluoranthene Benzo(b) fluoranthene Benzo(k) fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene Benzo(g,h,i)perylene	In house method EP076HK (GC/MSD)
	- Phenol, Hexachlorobenzene, Bis-(2-ethylhexyl)phthalate	In house method EP076HK (GC/MSD)

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Sediment and Soil (cont'd)	Organic Pollutants :- (cont'd) - Organochlorine Pesticides p,p'-DDE p,p'-DDD o,p'-DDT p,p'-DDT - Total polychlorinated biphenyls - 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',3,4',5',6-Hexachlorobiphenyl (149) 2,2',4,4',5,5' - Hexachlorobiphenyl (153) 2,3,3',4,4',5 - Hexachlorobiphenyl (156) 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 EP066_67 (PTV-GC/MSD) In House Method EP066 (GC/MSD) In House Method EP066_67 (PTV-GC/MSD) In house method EP065 (GC/MSD)

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Sediment and Soil (cont'd)	Organic Pollutants :- (cont'd) - Total polychlorinated biphenyls - 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-Pentachlorophenyl (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) 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)	Preparation method ORG-HK14_SR and In house method EP066 (GC/MSD) Preparation method ORG-HK14_SR and In house method EP065 (GC/MSD)

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Sediment and Soil (cont'd)	Organic Pollutants :- (cont'd) - TPH: C6-C9 C10-C14 C15-C28 C29-C36 C6 - C8 C9 - C16 C17 - C35 - TPH: C10 - C16 C17 - C35 - Monocyclic Aromatics: Benzene Toluene Ethylbenzene meta- & para-Xylene Styrene ortho-Xylene Isopropylbenzene n-Propylbenzene 1,3,5-Trimethylbenzene sec-Butylbenzene 1,2,4-Trimethylbenzene tert-Butylbenzene p-Isopropyltoluene n-Butylbenzene Xylenes (Total) - Oxygenated Compounds: 2-Propanone (Acetone) Vinyl acetate 2-Butanone (MEK) 4-Methyl-2-pentanone (MIBK) 2-Hexanone (MBK) - Sulfonated Compounds: Carbon disulfide	In House Method EP071_SR (Purge and Trap GC/MSD and GC/FID) In-house method EP071HK_SR (Purge and Trap GC/MSD and GC/FID) Preparation method ORG-HK14_SR and In-house method EP071HK_SR (GC/FID) In House Method EP074_SR – A (Purge and Trap GC/MSD) In House Method EP074_SR – A (Purge and Trap GC/MSD) (By calculation) In House Method EP074_SR – B (Purge and Trap GC/MSD) In House Method EP074_SR – C (Purge and Trap GC/MSD)

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Sediment and Soil (cont'd)	Organic Pollutants :- (cont'd) - Trihalomethanes: Chloroform Bromodichloromethane Dibromochloromethane Bromoform - Naphthalene - Methyl-tert-butyl ether (MTBE) - BTEX: Benzene Toluene Chlorobenzene Ethylbenzene meta- & para-Xylene ortho-Xylene - Organochlorine Pesticides alpha-BHC beta-BHC delta BHC gamma-BHC Heptachlor Aldrin Heptachlor epoxide Endosulfan 1 p,p'DDE Dieldrin Endrin Endosulfan 2 p,p'DDD Endrin aldehyde Endosulfan sulfate p,p'DDT Endrin Ketone Methoxychlor Cypermethrins Cis-Chlordane Trans-Chlordane Hexachlorobenzene	In House Method EP074_SR – G (Purge and Trap GC/MSD) In House Method EP074_SR – H (Purge and Trap GC/MSD) In House Method EP074_SR – I (Purge and Trap GC/MSD) In House Method EP080_SR (Purge and Trap GC/MSD) In House Method EP067A (GC/MSD)

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Sediment and Soil (cont'd)	Organic Pollutants :- (cont'd)	
	- Organophosphous Pesticides: Dichlorvos Monocrotophos Dimethoate Diazinon Chlorpyrifos methyl Parathion methyl Malathion Fenthion Chlorpyrifos Parathion Pirimiphos ethyl Bromophos ethyl Chlorfenvinphos E Chlorfenvinphos Z Fenamiphos Prothiofos Ethion Carbofenthion Azinphos methyl	In House Method EP067B (GC/MSD)
	- Triazine Pesticides: Simazine Atrazine	In House Method EP067C (GC/MSD)
	- Tributyl tin	In-house Method EP390 (By LC-MS/MS)
	- Tributyl tin oxide by calculation	In-house Method EP390 (By calculation from Tributyl tin)
	- Triphenyl tin	In-house Method EP390 (By LC-MS/MS)
	- Tributyl tin	In-house Method EP390_SR (By LC-MS/MS)
	- Tributyl tin oxide by calculation	In-house Method EP390_SR (By calculation from Tributyl tin)
	- Triphenyl tin	In-house Method EP390_SR (By LC-MS/MS)

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Sediments	<p>Toxicity Tests :-</p> <p>10-D Amphipod Survival Test - Leptocheirus plumulosus</p> <p>20-D Polychaete Growth and Survival Test – <i>Neanthes arenaceodentata</i></p> <p>48-60 Hour Bivalve Larvae Survival and Normality Test – <i>Crassostrea gigas</i></p>	<p>USEPA 600/R-94/025 June 1994 Test Method 100.4 (ET001)</p> <p>Recommended Guidelines for Conducting Laboratory Bioassays on Puget Sound Sediments, PSEP, July 1995 (ET002)</p> <p>Recommended Guidelines for Conducting Laboratory Bioassays on Puget Sound Sediments, PSEP, July 1995 (ET012)</p>

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Biota	Trace Metals :- Digestion procedure Arsenic, Cadmium, Chromium, Copper, Lead, Nickel, Silver, Zinc, Mercury Organic Pollutants :- - Polycyclic Aromatic Hydrocarbons: Naphthalene Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benz(a)anthracene Chrysene Benzo(b)&(k) fluoranthene Benzo(a)pyrene Benzo(e)pyrene Perylene Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene Benzo(g,h,i)perylene - Organochlorine Pesticides: p,p'-DDE p,p'-DDD o,p'-DDT p,p'-DDT - Total polychlorinated biphenyls - Tributyl tin - Triphenyl tin	In House Method E-BIOTA (Microwave) In House Method EG020 (ICP-MS) In House Method EP076 (GC/MSD) In House Method EP066_67 (PTV-GC/MSD) In House Method EP066_67 (PTV-GC/MSD) In-house Method EP390 (By LC-MS/MS) In-house Method EP390 (By LC-MS/MS)

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Biota (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) 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',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',5,6 - Octachlorobiphenyl (195) 2,2',3,3',4,4',5,5',6 - Nonachlorobiphenyl (206)	In house method EP065 (GC/MSD)

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Food 食品		
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General foodstuff	Trace metals:- Antimony, Arsenic, Boron, Cadmium, Chromium, Copper, Mercury, Nickel, Tin, Zinc, Lead	In-house method E-BIOTA and E-3051A (Microwave) In-house method FG020 (ICP-MS)
	Calcium, Iron, Magnesium, Sodium, Potassium	In-house method E-BIOTA and E-3051A (Microwave) In-house method FG032 (ICP-AES)
	Mercury	In-house method E-BIOTA and E-3051A (Microwave) In House method FG038 (By mercury analyzer)
Milk and milk products	Lead	In-house method E-BIOTA (Microwave) In-house method FG020 (ICP-MS)
Rice and rice products	Inorganic Arsenic	In-house method FG021 (ICP-MS)
Rice, aquatic products and seaweed	Inorganic Arsenic	In house method FG023 (HPLC-ICP-MS)
Drinking water and mineral water	Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Mercury, Molybdenum, Nickel, Selenium, Silver, Thallium, Tin, Uranium, Vanadium, Zinc	In-house method F-3005 In-house method FG020 (ICP-MS)
	Calcium, Iron, Magnesium, Sodium and Potassium	In-house method F-3005 In-house method FG032 (ICP-AES)
	Mercury	In-house method F-3005 In-house method EG038 (By mercury analyzer)
Fish and bottled drinking water	Methyl mercury – quantitative	In house method FG024b (by HPLC-ICP-MS)
Fish	Methyl mercury – screening (by calculation based on the result of total mercury)	In house method FG024a (by ICP-MS)
Bottled drinking water	Mercury (II)	In house method FG024b (by HPLC-ICP-MS)
飲用水(Drinking water)	金屬 (Metals):- 砷(Arsenic), 銻(Antimony), 鈹(Beryllium) 鎘(Cadmium), 鉻(Chromium), 銅(Copper), 鉛(Lead), 鎳(Nickel), 汞(Mercury), 銀(Silver), 硒(Selenium), 鉈(Thallium) 鋅(Zinc)	中華人民共和國國家標準 生活飲用水標準檢驗方法 - 金屬指標 GB/T5750.6 – 2006 Section 1.5 (EG020_GB)

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General foodstuff	Composition:- - Protein - Total fat - Moisture content - Total ash at 550°C - Total dietary fibre - Saturated fatty acids:- C _{4:0} , C _{6:0} , C _{8:0} , C _{10:0} , C _{12:0} , C _{14:0} , C _{15:0} , C _{16:0} C _{17:0} , C _{18:0} , C _{20:0} , C _{22:0} , C _{24:0} - Trans fatty acids :- C _{14:1T} (9-trans), C _{16:1T} (9-trans), C _{18:1T} (total), C _{18:2T} (9,12-trans), C _{18:2T} (9-cis,12-trans), C _{18:2T} (9-trans,12-cis), C _{20:1T} (11-trans), C _{22:1T} (13-trans) - Sugars: Fructose, glucose and galactose, Fructose, sucrose, maltose and lactose - Total sugars content Fructose, glucose, galactose, sucrose, lactose and maltose - Phosphorus - Cholesterol - Vitamin C	In-house method FD061 (Kjeldahl method) In-house method FD020 (Gravimetric method) In-house method FD030 (Gravimetric method) In-house method FD031 (Gravimetric method) AOAC Official Method 985.29 (2005) (Enzymatic-gravimetric method) (FD035) AOAC Official Method 985.029 (with modification) (by ANKOM Dietary Fiber analyser) (FD036) AOAC Office Method 996.06 (2010) (Hydrolytic extraction gas chromatography) (By GC/FID) (FP106) AOAC Office Method 996.06 (2010) (Hydrolytic extraction gas chromatography) (By GC/FID) (FP106) In-house method FC005 (By UPLC-RI) In-house method FC005 (By UPLC-ELSD) In-house method FC005 (By UPLC-ELSD/RI) In-house method FG026 (By ICP-AES) In-house method FP107 (By GC/FID, Confirmation by GC/MSD) In-house method FC006 (by HPLC-FLD)

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Food 食品		
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General foodstuff (excluding food containing ethanol and organic acid)	Composition:- (cont'd) - Energy	In-house method FD042 (By calculation)
	- Carbohydrates	In-house method FD042 (By calculation)
Milk and milk products	- Iodine	In-house method FG022 (By ICP-MS)
一般食品 General foodstuff	成分(Composition):- - 水分(Moisture)	中華人民共和國國家標準 食品安全國家標準/食品中水分的測定 直接乾燥法 GB 5009.3 – 2010 (FD030_GB) Cl. 1-7
	- 灰分 (Ash)	食品安全國家標準/食品中灰分的測定 GB 5009.4 – 2010 (FD031_GB) <不包含> cl.5.3.2
	- 蛋白質 (Protein)	食品安全國家標準/食品中蛋白質的測定 GB 5009.5 – 2010 (FD061_GB)

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General foodstuff	Preservatives:-	
	- Benzoic acid and Sorbic Acid,	In-house method FC001 (By UPLC)
	- Salicylic acid, Methyl para-hydroxybenzoate, Ethyl para-hydroxybenzoate and Propyl para-hydroxybenzoate	In-house method FC071 (By UPLC)
	- Benzoic acid, Sorbic Acid, Salicylic acid, Methyl para-hydroxybenzoate, Ethyl para-hydroxybenzoate and Propyl para-hydroxybenzoate	In-house method FC008 (By UPLC)
	- Sulphur dioxide	In-house method FD040 (Qualitative by lead acetate paper) In-house method FD041 (By titrimetric and turbidimetric methods)
Meat, milk, meat products and milk products	- Boric acid and borates	In-house method FC003A (Qualitative by turmeric paper) In-house method FC003B (Quantitative by ICP-MS)
	- Sodium nitrite	In-house method FK057A (By flow injection analysis)
	- Nitrites	In-house method FK057A (By flow injection analysis)
	- Sodium nitrate	In-house method FK058A (By flow injection analysis)
Bakery and confectionery products	- Nitrates	In-house method FK058A (By flow injection analysis)
	- Propionic acid	In-house method FC004 (By UPLC)
Oils, nuts and cereals	Mycotoxins: -	
	- Aflatoxins B ₁ , B ₂ , G ₁ , G ₂ and Aflatoxins total (B ₁ +B ₂ +G ₁ +G ₂)	In-house method FP313 (Screening and quantitative by UPLC-MS/MS)

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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	Contaminants:- - Melamine	In-house method FP311 (By LC-MS/MS)
Fish and shrimp tissues	Veterinary Drug Residues:- - Malachite Green - Leucomalachite Green - Gentian Violet - Leucogentian Violet	In-house method FP301 (By LC-MS/MS)
Aquatic products and by-products of Fish	- Malachite Green - Leucomalachite Green - Sum of Malachite Green and Leucomalachite Green	In House Method FP301a (By UPLC-MS/MS) In House Method FP301a (by calculation)
Fish, shrimp and chicken meat	- Fluoroquinolones: Ciprofloxacin Enrofloxacin Danofloxacin Sarafloxacin Difloxacin	In-house method FP324 (By UPLC-MS/MS)
Meat and chicken meat	Free residues of the following: - Salbutamol - Cimaterol - Clenbuterol - Ractopamine - Zilpaterol - Reserpine - Amantadine - Dexamethasone	In-house method FP321 (By UPLC-MS/MS)

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Fruit and Vegetables	Pesticide residues:-	
	Cyhalothrin-lambda, Deltamethrin	In-house method FP105 (By GC/MSD)
	Tolyfluanid	In-house method FP317 (Screening and quantitative by UPLC-MS/MS)
	Dichlofluanid	In-house method FP317 (Screening and quantitative by UPLC-MS/MS)
	Acidic pesticides: 2,4-D, MCPA, Triclopyr, 3,5,6-trichloro-2-pyridinol (TCP), Diclofop, Bentazone, 8-hydroxybentazone, 6-hydroxybentazone, (Z)-3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethylcyclopropanecarboxylic acid (lambda-cyhalothric acid), Fluroxypyr, Picloram, Quinclorac, Imazapyr, N-(4-trifluoromethylnicotinoyl)glycine) (TFNG), 4-trifluoromethylnicotinic acid (TFNA), Flonicamid, Bispyribac sodium, Clopyralid, and Fenbutatin oxide	In-house method FP322 (Screening and quantitative by UPLC-MS/MS)
	Flonicamid (sum of flonicamid, TFNA, TFNA-AM and TFNG)	In-house method FP317 & FP322 (By calculation)
	Bentazone (sum of bentazone, 6-hydroxybentazone and 8-hydroxybentazone expressed as bentazone)	In-house method FP322 (By calculation)
	Tefluthrin (sum of tefluthrin and (Z)-3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethylcyclopropanecarboxylic acid)	In-house method FP105 & FP322 (By calculation)
Triclopyr (sum of triclopyr and 3,5,6-trichloro-2-pyridinol (TCP))	In-house method FP322 (By calculation)	

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Fruit, vegetables and cereal grains (cont'd)	Pesticide residues:- (cont'd) - Organochlorine pesticides: Amitraz (sum of amitraz and N-(2,4-dimethylphenyl)-N'-methylformamidine expressed as N-(2,4-dimethylphenyl)-N'-methylformamidine) Indoxacarb (sum of Indoxacarb and its R enantiomer) - Organophosphorus pesticides: Fenamiphos (sum of Fenamiphos, Fenamiphos sulphone and Fenamiphos sulphoxide expressed as Fenamiphos) Oxydemeton methyl (sum of Oxydemeton methyl, Demeton-S-methyl and Demeton-S-methylsulphone expresses as Oxydemeton methyl) - Carbamates: Benfuracarb, Carbosulfan, Carbofuran, Carbaryl, 3-Hydroxycarbofuran, Dinotefuran, Fluometuron, Fenobucarb (BPMC), Isoprocarb, Methiocarb, Methiocarb sulphoxide, Methiocarb sulphone, Oxamyl oxime, Oxamyl, Propamocarb (Propamocarb (free base)) Pirimicarb, Primicarb-desmethyl-formamido, Primicarb-desmethyl, Thiodicarb Benfuracarb (sum of Benfuracarb, 3-hydroxycarbofuran and Carbofuran, expressed as Carbofuran) Carbofuran (sum of carbofuran and 3-hydroxycarbofuran expressed as carbofuran) Methiocarb (sum of Methiocarb, Methiocarb sulphoxide and Methiocarb sulphone expressed as Methiocarb) Oxamyl (sum of Oxamyl and Oxamyl oxime expressed as Oxamyl) Naled (sum of Naled and 2,2-dichlorovinyl dimethyl phosphate expressed as Naled)	In-house method FP315 (By calculation) In-house method FP315 (By calculation) In-house method FP315 (By calculation) In-house method FP315 (By calculation) In-house method FP315 (Screening and quantitative by UPLC-MS/MS) In-house method FP315 (By calculation) In-house method FP315 (By calculation) In-house method FP315 (By calculation) In-house method FP315 (By calculation) In-house method FP315 (By calculation)

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Fruit, vegetables and cereal grains (cont'd)	<p>Pesticide residues:- (cont'd)</p> <p>- Organochlorine pesticides: Aldrin, Dieldrin, Endrin, cis-Chlordane, trans-Chlordane, Oxychlordane, Heptachlor, Heptachlor epoxide, Hexachlorobenzene, Methyl pentachlorophenyl Sulphide (Pentachlorothioanisole/PCAS), Pentachloroaniline, Quintozene (pentachloronitrobenzene), Endrin ketone (Delta-keto endrin), Chlorothalonil, Chlorfenapyr, o,p-DDD, o,p-DDE, Endosulfan I, Endosulfan II, Endosulfan sulphate, Dichlobenil, Methoxychlor, Mirex, Tetradifon, Trifluralin and Vinclozolin Procymidone, Captan, 2,6-dichlorobenzamide, Chlorethoxyfos, Folpet, Methoprene, Butachlor, o, p'-Dicofol, p, p'-Dicofol, Metolachlor</p> <p>- Pyrethroid pesticides: Cypermethrin (sum of isomers), Benfluralin Fenvalerate, Bifenthrin (sum of isomers), Cyfluthrins (sum of isomers), Fenpropathrin and Permethrins (sum of isomers)</p> <p>Bromopropylate, Chlorpropham, Dicloran, Dimethipin, Diphenylamine, Ethalfuralin, Iprodione, Pendimethalin, Nitrapyrin, and Tecnazene</p> <p>Flucythrinate, Fluvalinate and Tefluthrin</p> <p>- Chlordane (sum of cis-Chlordane and trans-Chlordane)</p> <p>Endosulfan (sum of Endosulfan I, Endosulfan II and Endosulfan sulphate)</p> <p>Dichlobenil (sum of dichlobenil and 2,6-dichlorobenzamide)</p> <p>Heptachlor (sum of Heptachlor and Heptachlor epoxide)</p>	<p>In-house method FP105 (By GC/MSD)</p> <p>In-house method FP105 (By GC/MSD)</p> <p>In-house method FP105 (By GC/MSD)</p> <p>In-house method FP105 (By GC/MSD)</p> <p>In-house method FP105 (By calculation)</p> <p>In-house method FP105 (By calculation)</p> <p>In-house method FP105 (By calculation)</p> <p>In-house method FP105 (By calculation)</p>

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Fruit, vegetables and cereal grains (cont'd)	Pesticide residues:- (cont'd)	
	Endrin (sum of Endrin and Endrin ketone)	In-house method FP105 (By calculation)
	Aldrin and Dieldrin (sum of HHDN and HEOD)	In-house method FP105 (By calculation)
	- Pyrethroid pesticides: Esfenvalerate (sum of Fenvalerate isomers)	In-house method FP105 (By calculation)
	Dicofol (sum of o,p' and p,p' isomers)	In-house method FP105 (By calculation)
Fruit, vegetables, except stem vegetables	Ethephon	In-house method FP318 (By UPLC-MS/MS)
Cereal grains, straw and assorted fruits (inedible peel)	Ethephon	In-house method FP318 (By UPLC-MS/MS)
Fruit, vegetables, cereal grains and aquatic products	- Organochlorine pesticides: Hexachlorocyclohexane isomers (alpha-, beta- and delta-HCH), Lindane (gamma-HCH), o,p'-DDT, p,p'-DDT, p,p'-DDE and p,p'-DDD	In-house method FP105 (By GC/MSD)
	- DDT (sum of o,p'-DDT, p,p'-DDT, p,p'-DDE and p,p'-DDD)	In-house method FP105 (By calculation)
	Hexachlorocyclohexane (sum of alpha-HCH, beta-HCH, delta-HCH and Lindane (gamma-HCH))	In-house method FP105 (By calculation)

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Fruit and vegetables and cereal grains	Pesticide residues:- (cont'd) - Organochlorine pesticides: Clodinafop, Clodinafop propargyl, Indoxacarb, Quizalofop, Quizalofop ethyl Quizalofop ethyl (sum of Quizalofop and Quizalofop ethyl expressed as Quizalofop-p ethyl ester) Ethoxyquin - Organophosphorus pesticides: Fenthion, Fenthion sulphone, Fenthion sulphoxide, Fenthoxon, Fenthoxon sulphone, Fenthoxon sulphoxide, N-desethyl-phosphamidon, Phorate, Phorate oxon, Phorate oxon sulphone, Phorate oxon sulphoxide, Phorate sulphone, Phorate sulphoxide, Phosphamidon, Fenthion (sum of Fenthion, Fenthion sulphone, Fenthion sulphoxide, Fenthoxon, Fenthoxon sulphone, Fenthoxon sulphoxide expressed as Fenthion) Phorate (sum of Phorate, Phorate sulphone, Phorate sulphoxide, Phorate oxon, Phorate oxon sulphone, Phorate oxon sulphoxide expressed as Phorate) Phosphamidon (sum of Phosphamidon and N-desethyl-phosphamidon) Terbufos, Terbufos-oxon, Terbufos-oxon- sulphone, Terbufos-oxon-sulphoxide, Terbufos sulphone, Terbufos sulphoxide Terbufos (sum of Terbufos, its oxygen analogue, and their sulphoxides and sulphones, expressed as Terbufos) - Pyrethroid pesticides: Esfenvalerate (sum of Fenvalerate isomers)	In-house method FP317 (Screening and quantitative by UPLC-MS/MS) In-house method FP317 (By calculation) In-house method FP317 (Screening and quantitative by UPLC-MS/MS) In-house method FP317 (Screening and quantitative by UPLC-MS/MS) In-house method FP317 (By calculation) In-house method FP317 (By calculation) In-house method FP317 (By calculation) In-house method FP317 (Screening and quantitative by UPLC-MS/MS) In-house method FP317 (By calculation) In-house method FP317 (Screening and quantitative by UPLC-MS/MS)

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Fruit and vegetables and cereal grains (cont'd)	Pesticide residues:- (cont'd)	
	Carbendazim, Bentazone, Bromacil, Cycloate, Desmedipham, Flonicamid, Fluridone, Flutriafol, Fosthiazate, Imazethapyr, Isoxaben, Meptyldinocap-phenol (2,4-DNOP), Metaflumizone, Metrafenone, Naptalam, Norflurazon, Norflurazon-desmethyl(4-chloro-5-(amino)-2-(alpha,alpha,alpha-trifluoro-m-tolyl)-3(2H)-pyridazinone), Oryzalin, Phenmedipham, Spinetoram, Spiromesifen metabolite(4-hydroxy-3-(2,4,6-trimethylphenyl)-1-oxaspiro[4,4]non-3-en-2-one), Spirotetramat, Spirotetramat-enol (3-(2,5-dimethylphenyl)-4-hydroxy-8-methoxyl-1-azaspiro[4,5]dec-3-en-2-one), TFNA-AM (4-(trifluormethyl) nicotinamide), Topramezone and Uniconazole	In-house method FP317 (Screening and quantitative by UPLC-MS/MS)
	Carbendazim (sum of Benomyl, Carbendazim and Thiophanate methyl, expressed as carbendazim)	In-house method FP317 (By calculation)
	Norflurazon (sum of Norflurazon and 4-chloro-5-(amino)-2-(alpha,alpha,alpha-trifluoro-m-tolyl)-3(2H)-pyridazinone)	In-house method FP317 (By calculation)
	Spiromesifen (sum of Spiromesifen and 4-hydroxy-3-(2,4,6-trimethylphenyl)-1-oxaspiro[4,4]non-3-en-2-one, expressed as Spiromesifen)	In-house method FP317 (By calculation)
	Spirotetramat (sum of Spirotetramat and 3-(2,5-dimethylphenyl)-4-hydroxy-8-methoxy-1-azaspiro[4,5]dec-3-en-2-one, expressed as Spirotetramat)	In-house method FP317 (By calculation)
	- Triazine pesticides: Atrazine-desethyl-desisopropyl (2,4-diamino-6-chloro-s-triazine), Atrazine, Atrazine-desisopropyl (2-amino-4-chloro-6-ethylamino-s-triazine) and Simazine	In-house method FP317 (Screening and quantitative by UPLC-MS/MS)
Simazine (sum of Simazine, 2-amino-4-chloro-6-ethylamino-s-triazine and 2,4-diamino-6-chloro-s-triazine)	In-house method FP317 (By calculation)	

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Fruit and vegetables and cereal grains (cont'd)	Pesticide residues:- (cont'd)	In-house method FP317 (Screening and quantitative by UPLC-MS/MS)	
	Acifluorfen, Alachlor, Anilazine, Bioresmethrin, Bromoxynil, Butylate, Chlortoluron, Cinerin I, Cinerin II, Cymoxanil, Deltamethrin, Difenzoquat, Dimethenamide, Florasulam, Fluazifop, Fluazifop butyl, Flubendiamide, Fludioxonil, Flumetsulam, Formetanate hydrochloride, Imazosulfuron, Ipconazole, Isoprothiolane, Jasmolin I, Jasmolin II, Mepronil, Mesosulfuron methyl, Mesotrione, Nicosulfuron, Orthosulfamuron, Oxyfluorfen, Penoxsulam, Piperonyl butoxide, Pretilachlor, Prosulfuron, Pyrethrin I, Pyrethrin II, Rimsulfuron, Semiamitraz, Spiromesifen, Thiencarbazone methyl, Thifensulfuron methyl, Thiocyclam, Thiophanate-methyl, Triticonazole, Semiamitraz(N-(2,4-dimethylphenyl)-N'-methylformamidine)		
	Dimethenamid-P (sum of Dimethenamid-P and its enantiomer)		In-house method FP317 (By calculation)
	Fluazifop butyl (sum of Fluazifop butyl and Fluazifop)		In-house method FP317 (By calculation)
	Fluazifop-p-butyl (sum of Fluazifop butyl and Fluazifop)		In-house method FP317 (By calculation)
- Carbamates: 3-Hydroxycarbofuran, Aldicarb, Aldicarb sulphone, Aldicarb sulphoxide, Bendiocarb, Butocarboxim, Butocarboxim sulfone, Butocarboxim sulfoxide, Carbaryl, Carbofuran, Ethiofencarb, Fenobucarb (Baycarb), Furathiocarb, Isoprocarb, Methiocarb, Methiocarb sulphone, Methiocarb sulphoxide, Methomyl, Methomyl oxime, Metolcarb, Oxamyl, Pirimicarb, Promecarb, Propoxur (Baygon), Thiodicarb, Tri-allate	Pyrethrins (sum of Pyrethrin I, Pyrethrin II, Cinerin I, Cinerin II, Jasmolin I and Jasmolin II)	In-house method FP317 (By calculation)	
		In-house method FP319 (Screening and quantitative by UPLC-MS/MS)	

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Fruit and vegetables and cereal grains (cont'd)	Pesticide residues:- (cont'd) Aldicarb (sum of Aldicarb, Aldicarb sulphone and Aldicarb sulphoxide expressed as Aldicarb) Carbofuran (sum of carbofuran and 3-hydroxycarbofuran expressed as carbofuran) Methiocarb (sum of Methiocarb, Methiocarb sulphoxide and Methiocarb sulphone Expressed as Methiocarb) Methomyl (sum of Methomyl and Thiodicarb expressed as Methomyl) Acephate (Orthene), Azinphos-ethyl, (Guthion ethyl), Azinphos-methyl (Guthion), Bromophos-ethyl, Bromophos (Bromophos- methyl), Carbophenothion, Chlorfenvinphos, Chlorpyrifos, Chlorpyrifos methyl, Coumaphos, Crufomate (Ruelene), Demeton-S, Demeton-S-methyl (Metasystox), Demeton-S-methyl sulphone, (Dioxydemeton-S-methyl), Diazinon, Dichlorvos, Dicrotophos, Dimethoate, Disulfoton, Disulfoton sulfone, Disulfoton sulfoxide (Oxydisulfoton), Edifenphos, EPN, Ethion, Ethoprophos (Prophos, Mocal), Famphur, Fenamiphos, Fenamiphos sulphone, Fenamiphos sulphoxide, Fenchlorphos (Ronnel), Fenitrothion, Fensulfothion, Fenthion, Fenthion sulphone, Fenthion sulphoxide, Fonofos (Dyfonate), Iodofenphos(Jodfenphos), Isocarbophos, Isofenphos, Malaoxon, Malathion, Methamidophos (Monitor), Methidathion, Mevinphos (sum of (E)-mevinphos and (Z)-Mevinphos), Monocrotophos, Omethoate,Paraoxon (Paraoxon ethyl), Paraoxon methyl, Parathion (Parathion ethyl), Parathion methyl, Phenthoate, Phorate,Phorate sulphone, Phorate sulphoxide, Phosalone (Zolone), Phosmet (Imidan), Phosphamidon, Pirimiphos ethyl, Pirimiphos-methyl, Profenofos, Prothiofos (Tokuthion),Pyrazophos Quinalphos, Sulfotep (TEDP),Terbufos, Tetrachlorvinphos (Rabon, Stirofos), Thiometon, Triazophos,Trichlorfon (Dylox)	In-house method FP319 (By calculation) In-house method FP319 (By calculation) In-house method FP319 (By calculation) In-house method FP319 (By calculation) In-house method FP319 (Screening and quantitative by UPLC-MS/MS)
	Fenamiphos (sum of Fenamiphos, Fenamiphos sulphone and Fenamiphos sulphoxide expressed ad Fenamiphos)	In-house method FP319 (By calculation)

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General foodstuff	Microbiological examination:-	
	Aerobic Plate Count (35°C for general foodstuff) (32°C for milk)	US FDA Bacteriological Analytical Manual Online (BAM online) Ch. 3, January 2001 (Conventional Plate Count Method) (FM001)
	Total Coliform Count	US FDA Bacteriological Analytical Manual Online (BAM online) Ch. 4, October 2020 (MPN Method) (FM003)
	Faecal Coliform Count	US FDA Bacteriological Analytical Manual Online (BAM online) Ch. 4, October 2020 (MPN Method) (FM004)
	Yeast and Molds Count	US FDA Bacteriological Analytical Manual Online (BAM online) Ch. 18, April 2001 (Pour Plate Method using Plate Count Agar with Chloramphenicol) (FM005)
	<i>Salmonella spp.</i>	US FDA Bacteriological Analytical Manual Online (BAM Online) Ch. 5, May 2024 (FM007)
	<i>E. coli</i> Count	AOAC Official Method 991.14 (2005) (Dry Rehydratable Film Method) (FM102)
	Coliform Count	AOAC Official Method 991.14 (2005) (Dry Rehydratable Film Method) (FM103)
<i>Enterobacteriaceae</i>	AOAC Official Method 2003.01 (2006) (3M Petrifilm Method) (FM117)	

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General foodstuff	Microbiological examination:- <i>Staphylococcus aureus</i> and other Coagulase positive staphylococci - <i>E. coli</i> (serotype O157:H7) <i>Listeria monocytogenes</i> - Thermotolerant <i>Campylobacter</i> species - <i>Vibrio cholerae</i> - <i>Bacillus cereus</i> group - <i>Bacillus cereus</i> - <i>Clostridium perfringens</i>	3M™ Petrifilm™ Staph Express System AFNOR Validation Certificate No. 3M-01/09-04/03A and 3M-01/9-04/03B (FM106B) US FDA Bacteriological Analytical Manual Online (BAM Online) Ch. 4A, July 2020 (Cultural isolation, biochemical and serological confirmation Method) (FM022) US FDA Bacteriological Analytical Manual Online (BAM Online) Ch. 10, April 2022, Detection and enumeration (Direct plating method) (FM008 & FM008a) Public Health England (2018) Detection and enumeration of <i>Campylobacter</i> species Microbiology services. Food, Water & Environmental Microbiology Standard Method FNES15 (F21), Version 4. (FM021) US FDA Bacteriological Analytical Manual Online (BAM online), Chapter 9, May 2004 (FM011) US FDA Bacteriological Analytical Manual Online (BAM online), Chapter 14, January 2012 (FM009) US FDA Bacteriological Analytical Manual Online (BAM Online) Ch. 14, October 2020 (FM026) ISO 15213-2:2023 (FM027)

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General foodstuff	Microbiological examination:- (cont'd) - Aerobic Plate Count (菌落總數) - <i>Salmonella spp.</i> (沙門氏菌)	食品安全國家標準 食品微生物學檢驗 GB 4789.2-2022 (FM001_GB) 食品安全國家標準 食品微生物學檢驗 GB 4789.4-2024 (FM007_GB)
General foodstuff, pet food	- Aerobic colony count (30°C for 2 or 3 days)	3M™ Petrifilm™ Aerobic Count Plate AFNOR Validation Certification No. 3M 01/01-09/89 (FM024)
General foodstuff and animal feed including pet food and animal feeding	- Yeast and Mold Count (25°C for 2 - 3 days)	3M™ Rapid Yeast and Mold Petrifilm™ AFNOR Validation Certification No. 3M 01/13-07/14 (FM025)
Selected Types of Processed and Prepared Foods	<i>Staphylococcus aureus</i>	AOAC Official Method 2003.07 (2005) (3M Petrifilm Method) (FM106)
Selected Dairy Foods	<i>Staphylococcus aureus</i>	AOAC Official Method 2003.08 (2005) (3M Petrifilm Method) (FM106)
Selected Meat, Seafood and Poultry	<i>Staphylococcus aureus</i>	AOAC Official Method 2003.11 (2005) (3M Petrifilm Method) (FM106)
Selected Dairy Foods	<i>Staphylococcus aureus</i>	AOAC Official Method 2003.08 (2005) (3M Petrifilm Method) (FM106)
Selected Meat, Seafood and Poultry	<i>Staphylococcus aureus</i>	AOAC Official Method 2003.11 (2005) (3M Petrifilm Method) (FM106)
General foodstuff, Shellfish and Shellfish Meats	<i>Escherchia coli</i>	US FDA Bacteriological Analytical Manual Online (BAM online) Ch. 4, October 2020 (MPN Method) (FM002)

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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
Water, ice	Microbiological examination:- (cont'd) - Heterotrophic plate count (Colony count at 35°C) (Colony count at 37°C)	APHA 24e 9215A & B (EM001)
Water exclude natural mineral water, ice	- <i>E. coli</i>	DoE (1983) The Bacteriological Examination of Drinking Water Supplies, 1982 Sections 7.8 and 7.9 (Membrane Filtration Procedure: Section 7.8, 7.9.4.2 Bacterial Confirmation: Section 7.9.4.4 and urease test (Appl. Environ. Microbiol. 29, p826-833) (EM002)
Water	- Total Coliform	DoE (1983) The Bacteriological Examination of Drinking Water Supplies, 1982 Sections 7.8 and 7.9 (Membrane Filtration Procedure: Section 7.8, 7.9.4.1 Bacterial Confirmation: Section 7.9.4.3) (EM003)
	- <i>Pseudomonas aeruginosa</i>	ISO 16266:2006 (E) (Membrane filtration) (EM009) BS EN ISO 16266:2008 (EM009)
	微生物檢驗: Microbiological examination:-	
飲用水 (Drinking water)	- 菌落總數(Standard plate-count bacteria)	中華人民共和國國家標準 生活飲用水標準檢驗方法 - 第 12 部分: 微生物指標 GB/T5750.12 - 2023 (EM001_GB)

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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
Purified water	Microbiological examination:- - Enumeration of Total aerobic microbial count	British Pharmacopoeia 2023 Membrane filtration) (EM001M)