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LABORATORY LOCATION: MY CO2 (JB) SDN. BHD. (PERMANENT LABORATORY) 15, JALAN MOLEK 1/8

TAMAN MOLEK

81100, JOHOR BAHRU, JOHOR

MALAYSIA

FIELDS OF TESTING: CHEMICAL, MICROBIOLOGY

This laboratory has demonstrated its technical competence to operate in accordance with MS ISO/IEC 17025:2017 (ISO/IEC 17025:2017).

This laboratory's fulfillment of the requirements of ISO/IEC 17025 means the laboratory meets both the technical competence requirements and management system requirements that are necessary for it to consistently deliver technically valid test results and calibrations. The management system requirements in ISO/IEC 17025 are written in language relevant to laboratory operations and operate generally in accordance with the principles of ISO 9001 (see Joint ISO-ILAC-IAF Communiqué dated April 2017).

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Water	рН	APHA 4500 – H+ B
Ground Water	Biological Oxygen Demand (BOD)	APHA 5210 - B
Industrial/ Cooling Purposes Mineral Water	Dissolved Oxygen	APHA 4500- O G
Potable & Domestic Water Drinking Water	Chemical Oxygen Demand (COD)	APHA 5220 D
Reverse Osmosis Water Steam Raising/ Boiler Water	Suspended Solid	APHA 2540 D
Surface Water Swimming Pool Water &	Oil and Grease	APHA 5520 B
SPA	Temperature	APHA 2550 B
River water Cooling tower water	Chromium Hexavalent	APHA 3500 – Cr B
Ice water Steam water	Cyanide	APHA 4500 CN ⁻ C & E
	Formaldehyde	USEPA 8315A
	Fluoride	APHA 4500 F – D
	Phenol	In house method MY/STP/069 based on APHA 5530 B & APHA 5530 D
	Free Chlorine	APHA 4500 CI-G
Water	Mercury	In house method MY/STP/402 based on APHA 3030F, 3114C & 3120B
Drinking water Potable Water Raw water Surface water		



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Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Water Raw water	COD (Titration)	APHA 5220 C
Naw water		
Water Ground water Mineral water Potable water Drinking water Deionized water River water Raw and Treated water	Bromoform Chloroform Bromodichloromethane Dibromocholoromethane Styrene	In house method MY/STP/320 based on APHA 6200 B (2012) & Journal of Chromatography A, 1181 (2008) 116-124
Water	Sulfide	APHA 4500 – S ²⁻ D
Ground Water	Tin,Strontium,Lithium	In house method MY/STP/225 based on APHA 3120B & APHA 3030 F
Industrial/Cooling Purposes Mineral Water	Antimony	
Potable & Domestic Water Drinking Water	Aluminium	
Reverse Osmosis Water Steam Raising/ Boiler Water	Arsenic	
Surface Water	Barium	
Swimming Pool Water & SPA	Beryllium	
River water Cooling tower water	Boron	
Ice water Steam water	Cadmium	
Otouri Water	Calcium	
	Total Chromium	APHA 3030 F & APHA 3120 B
	Cobalt	
	Copper	
	Iron	
	Lead	
	Magnesium	
	Manganese	
	Molybdenum	
	Nickel	



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Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Water	Potassium	
(Continued) Ground Water	Selenium	
Industrial/Cooling Purposes Mineral Water	Silver	
Potable & Domestic Water Drinking Water	Silicone	- APHA 3030 F &
Reverse Osmosis Water Steam Raising/ Boiler Water Surface Water	Sodium	APHA 3120 B
Swimming Pool Water & SPA	Thallium	
River water Cooling tower water Ice water Steam water	Vanadium	
	Zinc	
Water	Ammonia/ Nitrogen	APHA 4500 NH₃ B & C
	Colour(ADMI)	APHA 2120 F
Ground Water Industrial/ Cooling Purposes Mineral Water	Anionic surfactant-Detergent MBAS	APHA 5540C
Potable & Domestic Water	Chloride	APHA 4500 – CI ⁻ D
Drinking Water Reverse Osmosis Water	Turbidity	APHA 2130 B
Steam Raising / Boiler Water	Hardness	APHA 2340 C
Surface Water Swimming Pool Water &	Nitrite	APHA 4500-NO2 B
SPA River water	Sulphate	APHA 4500 – SO ₄ ²⁻ D
Cooling tower water	Total Dissolved Solid	APHA 2540 C
Steam water	Mineral oil	APHA 5520 F



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Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Water Mineral water Potable water Drinking water Reverse Osmosis Water Ice water Steam water	Organochlorine Pesticide – Aldrin Gamma-BHC Heptachlor Heptachlor epoxide Dieldrin 4,4'-DDT 4,4'-DDD 4,4' DDE Endrin Endosulfan Hexachlorobenzene (Alpha, Beta and Delta) Methoxychlor	APHA 6630 D
	Nitrate	APHA 4500-NO3 B
Water Potable water	Conductivity	APHA 2510B
Drinking water Raw water Surface water Waste water	Colour	APHA 2120B
Water	Total Solids	APHA 2540 B
Drinking Water Ground Water River Water	Phosphate/ Phosphorus	APHA 4500-P B & C
Water Potable & Domestic Water Ground Water Mineral Water Reverse Osmosis Water Industrial Water Swimming Pool Water Drinking Water River water Ice water Well Water	2, 4-D Chlorpyrifos	In house method based on APHA 6410B & Journal of Chromatographic Science, Vol. 48 (2010) 183-187



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Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Environmental Monitoring	рН	APHA 4500 – H ⁺ B (2005)
Industrial Effluent	Biological Oxygen Demand (BOD)	APHA 5210 - B (2005)
Sewage Water	Chemical Oxygen Demand (COD)	APHA 5220 D (2005)
Waste water	Suspended Solid	APHA 2540 D (2005)
	Oil and Grease	APHA 5520 B (2005)
	Temperature	APHA 2550 B (2005)
	Chromium Hexavalent	APHA 3500 – Cr B (2005)
	Cyanide	APHA 4500 CN ⁻ C & E (2005)
	Formaldehyde	USEPA 8315A
	Fluoride	APHA 4500 F – D (2005)
	Phenol	In house method MY/STP/069 based on APHA 5530 B & APHA 5530 D (2005)
	Free Chlorine	APHA 4500 CI-G (2005)
	Mecury	In house method MY/STP/402 based on APHA 3030F, 3114C & 3120B (2005)
	COD (Titration)	APHA 5220 C (2005)
	Sulfide	APHA 4500 – S ²⁻ D (2005)
	Tin	In house method MY/STP/225 based on APHA 3120B (2005) & APHA 3030 F (2005)
	Antimony	
	Aluminium	
	Arsenic	
	Barium	
	Boron	APHA 3030 F (2005) &
	Cadmium	APHA 3120 B (2005)
	Copper	
	Iron	
	Lead	
	Manganese	



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Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Environmental Monitoring	Nickel	
(Continued)	Selenium	APHA 3030 F (2005) &
Industrial Effluent	Silver	APHA 3120 B (2005)
Sewage Water Waste water	Zinc	
	Ammonia/Nitrogen	APHA 4500 NH ₃ B & C (2005)
	Colour (ADMI)	APHA 2120 F (2005)
	Dissolved Oxygen	APHA 4500- O G
	Strontium, Lithium	In house method MY/STP/225 based on APHA 3120 B & APHA 3030 F
	Beryllium	
	Calcium	
	Total Chromium	
	Cobalt	
	Magnesium	
	Molybdenum	APHA 3030 F & APHA 3120 B
	Potassium	
	Silicone	
	Sodium	
	Thallium	
	Vanadium	
	Anionic Surfactant – Detergent MBAS	APHA 5540 C
	Chloride	APHA 4500 –CI ⁻ D
	Turbidity	APHA 2130 B
	Hardness	APHA 2340 C
	Nitrite	APHA 4500- NO2 B
	Sulphate	APHA 4500 – SO ₄ 2-D
	Total Dissolved Solid	APHA 2540 C
	Mineral Oil	APHA 5520 F



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Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Method/ Equipment/Techniques
Environmental Monitoring (Continued)	Mixed Liquor Suspended Solids (MLSS)	APHA 2540 D
Industrial Effluent Sewage Water Waste water	Mixed Liquor Volatile Suspended Solids (MLVSS)	APHA 2540 D & E
	Total Solids	APHA 2540 B
	Phosphate/ Phosphorus	APHA 4500-P B & C



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Materials/Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Method/ Equipment/Techniques
Animal Feedstuff	Protein/ Nitrogen	AOAC 988.05, 20th edition
	Moisture	AOAC 930.15, 20th edition
	Ash	AOAC 942.05, 20th edition
	Crude Fibre	AOAC 978.10, 20th edition
	Crude Fat	AOAC 920.39, 20th edition
Coffee powder & Tea beverage	Caffeine & Coffee Content	MS 1360: 1994
All types of food and food related samples • Foods	Protein/ Nitrogen	In house method MY/STP/270 based on AOAC 988.05, 20th edition
AlcoholicBeverages	Moisture	In house method MY/STP/271 based on AOAC 931.04, 20th edition
 Dairy Products Edible Oils, Fats & their Product 	Total Fat	In house method MY/STP/265 based on AOAC 963.15, 20 th edition
their Product	Fatty Acids Composition (Monounsaturated Fat, Polyunsaturated Fat, Saturated Fat, Trans Fat)	In house method MY/STP/090 based on AOAC 969.33, 20 th Edition & AOAC 963.22, 20 th edition
Fish & FishProductsFlour &	Total Sugar	In house method MY/STP/089 based on AOAC 968.28, 20th edition
Confectionery • Food Additives &	Energy / Calories	Guide to Nutrition Labelling and Claims page 10 & 14
Supplement Honey & Honey Products	Carbohydrate	Guide to Nutrition Labelling and Claims page 10 & 14
Infant FoodsMeat, Poultry &	Vitamin C	In house method MY/STP/145 based on GB 5413.18-2010
Derived Products Non-alcoholic	Vitamin A	In house method MY/STP/128 based on GB 5413.9-2010
Beverages Nut, Fruit &	Vitamin E	In house method MY/STP/415 based on GB 5413.9-2010
Vegetables and Derived Products	Vitamin D	In house method MY/STP/380 based on GB 5413.9 - 2010
 Pet Foods Sauces, Herbs, Spices and Condiments Sugars & Sugar Products 	Cholesterol	In house method MY/STP/131 based on J AOAC Vol. 78, No. 6, 1995



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Materials/Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Method/ Equipment/Techniques
All types of food and food related samples • Foods	Total Dietary Fibre	In house method MY/STP/030 based on SCC Technical Bulletin No. TDFAB
Alcoholic Beverages	Cadmium	In house method MY/STP/264 based on AOAC 999.11, 20th edition
Dairy ProductsEdible Oils, Fats & their Product	Lead	In house method MY/STP/264 based on AOAC 999.11, 20th edition
Egg & Egg Products Essential Nutrients	Mercury	In house method MY/STP/023 based on AOAC 971.21, 20 th edition
including Vitamins Fish & Fish	Tin	In house method MY/STP/029 based on AOAC 985.16, 20 th edition
Products • Flour & Confectionery	Arsenic	In house method MY/STP/025 based on AOAC 971.21, 20 th edition
Food Additives & Supplement	Sodium	In house method MY/STP/009 based on AOAC 968.08, 20 th edition
Honey & Honey Products	Calcium	In house method MY/STP/009 based on AOAC 968.08, 20 th edition
 Infant Foods Meat, Poultry & Derived Products 	Iron	In house method MY/STP/009 based on AOAC 968.08, 20 th edition
Non-alcoholic Beverages	Benzoic Acid	In house method MY/STP/110 based on JAOAC Vol. 70, No. 5, 1987
 Nut, Fruit & Vegetables and Derived Products 	Sorbic Acid	In house method MY/STP/110 based on JAOAC Vol. 70, No. 5, 1987
 Pet Foods Sauces, Herbs, Spices and Condiments Sugars & Sugar Products 	Sulphur Dioxide	In house method MY/STP/040 based on Velp Scientifica manual UDK 126 D
Food Products	Sudan I, II, III, IV & Para Red	Government Chemists Publication List: LGC/GC/2007/005



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Materials/Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Method/ Equipment/Techniques
All types of food and food related samples	Ash	In house method MY/STP/272 based on AOAC 942.05, 20th Ed
FoodsLiquid and Semi-liquid	Total Carbohydrate (by Calculation)	US FDA 21 CFR101.9 Part 101
Foods, beverages, sauces, pastes, honey,	Energy/Calories (by Calculation)	US FDA 21 CFR101.9 Part 101
edible oils, fats and their products Dairy products Nutritional foods, Infant foods, food supplements Flour and confectionery Meat, poultry and derived products Nut, fruit and vegetables and derived products Herbs, spices and condiments	Antimony	In house method MY/STP/406 based on AOAC 999.11, 20 th Ed
Solid, Liquid and Semi-liquid Foods - beverages, sauces and pastes, nutritional foods	Salt / Sodium Chloride	In house method MY/STP/403 based on Metrohm Manual Method 21 D 3
Milk Powder and Milk Product	Mojonnier Fat	AOAC 932.06, 20th Edition
Milk	Mojonnier Fat	AOAC 989.05, 20th Edition
Nutritional and dietary supplement, pharmaceutical, traditional medicine	Lead, Cadmium	In house method MY/STP/411 based on FDA EAM Section 2.3.1 & USP <233>
	Mercury, Arsenic	In house method MY/STP/412 based on FDA EAM Section 2.3.1 & USP <233>



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Materials/Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Method/ Equipment/Techniques
Palm Oil & Palm Oil Products	Moisture and Volatile Matter	MPOB p2.1 Part 1: 2004
Edible Oils and related products	Impurities	MPOB p2.2: 2004
products	Peroxide Value	MPOB p2.3: 2004
	Acidity / Free Fatty Acid	MPOB p2.5: 2004
	Saponification Value	MPOB p3.1: 2004
	Unsaponificable Matter	MPOB p2.7: 2004
	Iodine Value	MPOB p3.2: 2004
	Deterioration of Bleachability Index (DOBI) of Crude Palm Oil (CPO)	MPOB p2.9: 2004
	Cold Test	MPOB p4.7: 2004
	Ash	MPOB p3.6: 2004
	Apparent Density	MPOB p4.5: 2004
	Soap Content	MPOB p2.13: 2004
	Total Fatty Matter (By Calculation)	MPOB p3.7: 2004
	Mineral Oil (Qualitative)	AOAC 945.102, 20th Edition
	Cloud point	AOCS Cc6-25
	Refractive index	AOCS Cc7-25
	Phosphorus	AOCS Ca 12-55
	Slip melting point	AOCS Cc 3-25:2009
	Colour	MPOB p4.1:2004
	MCPD Esters Glycidol Ester	AOCS Cd 29a-13



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Materials/Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Method/ Equipment/Techniques
Pet Food, Feed & Food Products	Potassium	In House Method MY/STP/372 Based On AOAC 985.01, 20th Ed
Feed & Food Products	Added Sugar (as sucrose)	In House Method MY/STP/377 Based On AOAC 968.28, 20 th Ed
Cosmetics	Lead, Cadmium	In House Method MY/STP/401 Based On AOAC 999.11, 20 th Ed
	Mercury, Arsenic	In House Method MY/STP/400 Based On AOAC 971.21, 20 th Ed
Wire/ Wire Rod	Zinc, Aluminium	ASTM E1277-08
 Foods: Dairy Products Edible oils, fats and their products Flour and confectionery Honey and honey products Meat, poultry and derived products Non-alcoholic beverages Nuts and derived products Sauces, herbs, spices and condiments Liquid and semi-liquid foods 	Available Carbohydrate (By Differences)	In House Method MY/STP/420 based on Protocol for Sampling and Method of Analysis for Malaysian Food Composition Database, Part III, Clause 3.3 1: Proximate Analysis.



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Materials/Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Method/ Equipment/Techniques
Foods: Edible oils, fats and their products Flour and confectionery Nut, fruit and vegetables and derived products Sauces, herbs, spices and condiments Sugar and sugar products Dairy products Coffee and derived products	Total Aflatoxin (B1, B2, G1, G2) Aflatoxin B1 Aflatoxin B2 Aflatoxin G1 Aflatoxin G2	In house method based on AOAC 990.33, 20 th Ed (by HPLC)
	Sodium benzoate Potassium Sorbate	In house method MY/STP/110 based on JAOAC Vol. 70, No.5, 1987 (by Calculation)
Fertilizers	Moisture	MS 417:Part 2:1994 Amd 1: 2001 (Oven Method)
	Total Nitrogen	MS 417:Part 3:2020 (Modified Comprehensive Nitrogen Method)
	Ammoniacal Nitrogen	MS 417:Part 3:2020 (Distillation Method)
	Total Phosphorus (as P205)	MS 417:Part 4:2020 (Spectrophotometric molybdovanadophosphate method)
	Water Soluble Phosphorus P205	MS 417:Part 4:2020 (Shaking method)
	Citric Soluble Phosphorus P205	MS 417:Part 4:2020
	Potassium (as K20)	MS 417:Part 5:2020 (Inductively coupled plasma spectrometry (ICP) method)
	Magnesium (as MgO)	MS 417:Part 6:2020: (Inductively coupled plasma spectrometry (ICP) method)
	Boron (as B ₂ O ₃)	MS 417:Part 7:2020 (Inductively coupled plasma spectrometry (ICP) method)



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Materials/Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Method/ Equipment/Techniques
All types of food and food related samples	Aerobic Plate Count	FDA – BAM Chapter 3
FoodsAlcoholic	Total Yeast & Mold Count	FDA – BAM Chapter 18
Beverages • Dairy Products	Coliform (Solid Medium Method)	FDA – BAM Chapter 4
 Edible Oils, Fats & their Product 	Coliform (MPN Method)	FDA – BAM Chapter 4
Egg & EggProducts	E.coli (Solid Medium Method)	FDA – BAM Chapter 4
 Essential Nutrients including Vitamins 	E.coli (MPN Method)	FDA – BAM Chapter 4
Fish & Fish Products	Salmonella	FDA – BAM Chapter 5
Flour & ConfectioneryFood Additives &	Enterobacteriaceae (Petrifilm Method)	AOAC 2003.01, 20 th Edition
Supplement • Honey & Honey	Staphylococcus aureus	FDA – BAM Chapter 12
Products Infant Foods Meat, Poultry &	Bacillus cereus	FDA – BAM Chapter 14
Derived Products Non-alcoholic	Clostridium perfringens	FDA – BAM Chapter 16
Beverages • Nut, Fruit &	Vibrio cholerae	FDA – BAM Chapter 9
Vegetables and Derived Products • Pet Foods	Vibrio parahaemolyticus	FDA – BAM Chapter 9
 Sauces, Herbs, Spices and Condiments Sugars & Sugar Products 	Listeria monocytogenes	FDA – BAM Chapter 10



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Materials/Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Method/ Equipment/Techniques
All types of food and food related samples	Clostridium botulinum	FDA – BAM Chapter 17
FoodsAlcoholic	Enumeration of Yeast and Mold	AOAC 2014.05 20 th Ed
BeveragesDairy ProductsEdible Oils, Fats & their Product	Colony Count at 30°C by Pour Plate Technique (Aerobic Plate Count)	ISO 4833-1
 Egg & Egg Products 	Enumeration of Coliform	ISO 4832
 Essential Nutrients including Vitamins Fish & Fish Products 	Enumeration of β- Glucuronidase-Positive Escherichia coli	ISO 16649-2
 Flour & Confectionery Food Additives & Supplement Honey & Honey 	Enumeration of Coagulase- Positive Staphylococci (Staphylococcus aureus and other species)	ISO 6888-1
Products Infant FoodsMeat, Poultry &	Enumeration of Enterobacteriaceae	ISO 21528-2
Derived Products Non-alcoholic Beverages	Detection of Salmonella spp.	ISO 6579
 Nut, Fruit & Vegetables and 	Enumeration of Yeast and Mold (water activity >0.95)	ISO 21527-1
 Derived Products Pet Foods Sauces, Herbs, Spices and Condiments Sugars & Sugar Products 	Enumeration of Yeast and Mold (water activity ≤0.95)	ISO 21527-2



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Materials/Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Method/ Equipment/Techniques
All types of food and food related samples	Aerobic Plate Count	In house method MY/STP/407 based on GB 4789.2
FoodsAlcoholic beverages	Total Yeast and Mould	In house method MY/STP/396 based on GB 4789.15
 Dairy products Edible oils, fats and their products 	Coliform Count (Solid Medium Method and MPN Method)	In house method MY/STP/397 based on GB 4789.3
essential nutrients including vitamins	Escherichia coli (MPN Method)	In house method MY/STP/398 based on GB 4789.38
fish & fish productsflour and confectionery	Staphylococcus aureus	In house method MY/STP/399 based on GB 4789.10
food additives and supplements	Salmonella	In house method MY/STP/404 based on GB 4789.4
 honey and honey products 	Fecal Coliform (MPN Method)	FDA - BAM Chapter 4
infant foodsmeat, poultry and derived products		
 non-alcoholic beverages 		
 nut, fruit and vegetables and derived products 		
pet foodssauce, herbs, spices		
and condiments sugar and sugar products		

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Materials/Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Method/ Equipment/Techniques
Water, Waste Water, Portable Water & Drinking Water	Total Plate Count / Heterotrophic Plate Count	APHA 9215 B
	Total Plate Count (Membrane Filtration)	APHA 9215 D
	Total Coliform (Membrane Filtration)	APHA 9222 B
	Fecal Coliform / E.coli	APHA 9222 D
	E.coli (Multiple Tube Method)	APHA 9221 F
	Total Coliform (Multiple Tube Method)	APHA 9221 B
	Legionella spp including Legionella pneumophilla	AS/ NZS 3896
Microbiological Monitoring (Environmental Monitoring, Air & Work Surfaces)	Air monitoring for total bacteria, total fungus count by cascade impactor	In house method MY/STP/185 based on NIOSH method 0800
	Swab contact method	In house method MY/STP/175 based on Compendium of Methods for The Microbiological Examination of Foods (Chapter 3)
	Sedimentation Method	In house method MY/STP/175 based on Compendium of Methods for The Microbiological Examination of Foods, (Chapter 3)



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SCOPE OF TESTING: MICROBIOLOGY

Materials/Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Method/ Equipment/Techniques
Nutritional and dietary supplement, pharmaceutical, traditional herbal medicine, toiletries and cosmetic.	E.coli	BP 2020 (Appendix XVI B & F)
	Salmonella	BP 2020 (Appendix XVI B & F)
	Staphylococcus aureus	BP 2020 (Appendix XVI B)
	Bile-tolerant gram-negative bacteria / Enterobacteriaceae	BP 2020 (Appendix XVI B & F)
	Pseudomonas aeruginosa	BP 2020 (Appendix XVI B)
	Total Aerobic Microbial Count – Plate Count Method	BP 2020 (Appendix XVI B)
	Total Yeast & Mould Count – Plate Count Method	BP 2020 (Appendix XVI B)
Canned Food	Thermophilic Bacteria	FDA – BAM Chapter 21
	Anaerobic Organisms	FDA – BAM Chapter 21
	Leakage Organisms	FDA – BAM Chapter 21

Notes:

- 1. APHA: American Public Health Association, Standard Method for Examination of Water and Wastewater, 21st Edition, 2005
- 2. AOAC: Official Methods of Analysis of AOAC International
- ASTM: American Society for Testing & Materials 3.
- BP: British Pharmacopeia 4.
- FDA-BAM: US Food and Drug Administration / Bacteriological Analytical Manual 5.
- 6. FDA EAM: US Food and Drug Administration - Elemental Analysis Manual
- GB: National Food Safety of People's Republic of China JAOAC: Journal of AOAC International 7.
- 8.
- MPOB: Malaysia Palm Oil Board 9.
- MS: Malaysia Standard 10.
- NIOSH: National Institute of Occupational Safety & Health 11.
- USEPA: United States Environmental Protection Agency 12.
- 13. USP: United States Pharmacopeia

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SCOPE OF TESTING: MICROBIOLOGICAL

Materials/Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Method/ Equipment/Techniques
Water Ground water River water Portable water Treated water Raw water Swimming pool water Deionized water Mineral water Drinking water Dialysis water Reverse osmosis water Cooling tower water	Clostridium perfringens	BS ISO 14189 (Membrane Filtration)
	Fecal streptococci / Enterococci	APHA 9230 C (Membrane Filtration)
	Pseudomonas aeruginosa	APHA 9213 E Membrane Filtration)
	Sulfite-reducing anaerobes (Clostridia)	BS ISO 26461-2 (Membrane Filtration)
	Fecal Coliform	APHA 9221 E (Multiple Tube Method)

Notes:

APHA: American Public Health Association

GB: Chinese National Standards

BS: British Standard MS: Malaysia Standard