

NO: SAMM 564

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LABORATORY LOCATION:
(PERMANENT LABORATORY)

MY CO2 (KL) SDN. BHD.
NO. 40, JALAN SEPADU B25/B
40400 SHAH ALAM, SELANGOR
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).

SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Water Potable & Domestic Water, Ground Water, Mineral Water, Reverse Osmosis Water, Industrial / Cooling Purposes, Steam Raising / Boiler Water, Swimming Pool Water & SPA, Surface Water and Drinking Water	pH	APHA 4500 – H ⁺ B
	Biological Oxygen Demand (BOD)	APHA 5210 B APHA 4500 – O.G
	Chemical Oxygen Demand (COD)	APHA 5220 B
	Chemical Oxygen Demand (COD)	APHA 5220 D
	Suspended Solid	APHA 2540 D
	Oil and Grease	APHA 5520 B
	Temperature	APHA 2550 B
	Chromium Hexavalent	APHA 3500 – Cr B

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SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Water Potable & Domestic Water, Ground Water, Mineral Water, Reverse Osmosis Water, Industrial / Cooling Purposes, Steam Raising / Boiler Water, Swimming Pool Water & SPA, Surface Water and Drinking Water (cont.)	Cadmium (as Cd)	APHA 3111 B
	Calcium (as Ca)	
	Copper (as Cu)	
	Total Chromium (as Cr)	
	Iron (as Fe)	
	Lead (as Pb)	
	Magnesium (as Mg)	
	Manganese (as Mn)	
	Nickel (as Ni)	
	Potassium (as K)	
	Silver (as Ag)	
	Sodium (as Na)	
	Tin (as Sn)	
	Zinc (as Zn)	
	Fluoride	APHA 4500 F – D
	Phenol	In House Method MY/STP/069 based on APHA 5530 B & APHA 5530 D
	Sulphide	APHA 4500 – S ²⁻ D
Chlorine (Residual)	APHA 4500 Cl-G	
Sulfide	APHA 4500 S ²⁻ C & F	
Cyanide	APHA 4500 CN ⁻ C&E	
Colour (ADMI)	APHA 2120 F	

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SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Water Portable & Domestic Water, Ground Water, Mineral Water, Reverse Osmosis Water, Industrial / Cooling Purposes, Steam Raising / Boiler Water, Swimming Pool Water & SPA, Surface Water and Drinking Water (cont.)	Colour (Spectrophotometric Method)	APHA 2120 C
	Turbidity	APHA 2130 B
	Chloride	APHA 4500 – Cl ⁻ D
	Hardness	APHA 2340 C
	Nitrate	APHA 4500 – NO ₃ B
	Nitrite	APHA 4500 – NO ₂ B
	Sulphate	APHA 4500 – SO ₄ ²⁻ D
	Total Dissolved Solid	APHA 2540 C
	Anionic Surfactant – Detergent MBAS	APHA 5540 C
	Organochlorine Pesticide – <ul style="list-style-type: none"> • 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
Drinking water Portable water River water Raw and Treated water Sewage water Industrial effluent Surface water Waste water	Chromium Trivalent (as Cr ³⁺)	In House Method MY/STP/015 based on APHA 3120 B and APHA 3500-Cr B (2005) by calculation

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Valid until: 19 September 2029



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SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Water Portable water Raw water Sewage water Industrial effluent and leachate Mineral water	Aluminium (as Al)	APHA 3030 F(b) & APHA 3120 B (2005) analyzed by ICP-OES
	Antimony (as Sb)	
	Arsenic (as As)	
	Barium (as Ba)	
	Boron (as B)	
	Cadmium (as Cd)	
	Calcium (as Ca)	
	Copper (as Cu)	
	Cobalt (as Co)	
	Iron (as Fe)	
	Lead (as Pb)	
	Lithium (as Li)	
	Magnesium (Mg)	
	Mercury (as Hg)	
	Manganese (as Mn)	
	Nickel (as Ni)	
	Potassium (as K)	
	Selenium (as Se)	
Silver (as Ag)		
Sodium (as Na)		
Strontium (as Sr)		

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SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Water (cont.) Portable water Raw water Sewage water Industrial effluent and leachate Mineral water	Thallium (as Tl)	APHA 3030 F(b) & APHA 3120 B (2005) analyzed by ICP-OES
	Tin (as Sn)	
	Total Chromium (as Cr)	
	Zinc (as Zn)	
Environmental Monitoring Industrial Effluent and Waste Water	Formaldehyde	USEPA 8315A (Procedure 1) (1996)
	Nitrogen (Ammonia)	APHA 4500 NH ₃ B & C (2005)
	COD (Chemical Oxygen Demand)	APHA 5220 C (2005)
	Colour (ADMI)	APHA 2120 F (2005)
Industrial Effluent, Sewage Water, Waste Water and Leachate	pH	APHA 4500 – H ⁺ B (2005)
	Biological Oxygen Demand (BOD)	APHA 5210 B (2005)
	Chemical Oxygen Demand (COD)	APHA 5220 B (2005)
	Chemical Oxygen Demand (COD)	APHA 5220 D (2005)
	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)
	Fluoride	APHA 4500 F – D (2005)
	Phenol	In House Method My/STP/069 based on APHA 5530B & APHA 5530D (2005)
Sulphide	APHA 4500 – S ²⁻ D (2005)	

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Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Environmental Monitoring Industrial Effluent, Sewage Water, Waste Water and Leachate (cont.)	Lead (as Pb)	APHA 3111 B (2005)
	Copper (as Cu)	
	Manganese (as Mn)	
	Nickel (as Ni)	
	Tin (as Sn)	
	Zinc (as Zn)	
	Iron (as Fe)	
	Silver (as Ag)	
	Total Chromium (as Cr)	
	Cadmium (as Cd)	
	Magnesium (as Mg)	
	Sodium (as Na)	
	Calcium (as Ca)	
	Potassium (as K)	
	Colour (Spectrophotometric Method)	APHA 2120 C (2005)
	Turbidity	APHA 2130 B (2005)
	Chloride	APHA 4500 – Cl ⁻ D (2005)
	Hardness	APHA 2340 C (2005)
	Nitrate	APHA 4500 – NO ₃ B (2005)
	Nitrite	APHA 4500 – NO ₂ B (2005)
Sulphate	APHA 4500 – SO ₄ ²⁻ D (2005)	
Sample Pre-treatment for metal analysis-Nitric acid digestion	APHA 3030 E (2005)	
Total Dissolved Solids	APHA 2540 C (2005)	

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Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard test Method/ Equipment/Techniques
<u>Foods</u> <ul style="list-style-type: none"> Animal Feed Pet Food 	Protein/ Nitrogen	AOAC 988.05
	Moisture	AOAC 930.15
	Ash	AOAC 942.05
	Crude Fiber	AOAC 978.10
	Crude Fat	AOAC 920.39
<ul style="list-style-type: none"> Dairy Products Mayonnaise 	Fat	AOAC 932.06
<ul style="list-style-type: none"> Coffee Powder & Premix 	Caffeine & Coffee Content	MS 1360
<ul style="list-style-type: none"> Beverage and Juices Nuts, Fruits, Vegetables and Vegetable Products Nutritional Food Edible Oil, Fats and their Products 	Protein/ Nitrogen	In House Method MY/STP/270 based on AOAC 988.05
	Moisture	In House Method MY/STP/271 based on AOAC 931.04
	Ash	In House Method MY/STP/272 based on AOAC 942.05
	Fat (Soxhlet Extraction)	In House Method MY/STP/265 based on AOAC 963.15
	Total Carbohydrate (by calculation)	In House Method MY/STP/378 based on US FDA 21 CFR101.9 Part 101 (2017)
	Energy/calories (by calculation)	
<u>Foods (cont.)</u> <ul style="list-style-type: none"> Dairy Products & Cocoa Beverage & Juices Nuts, Fruits, Vegetables and Vegetable Products Nutritional Food Edible Oil, Fats and Their Products 	Energy / Calories	Guide to Nutrition Labelling and Claims page 15 (2010)
	Carbohydrate	Guide to Nutrition Labelling and Claims page 18 (2010)

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Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard test Method/ Equipment/Techniques
<u>Foods (cont.)</u> <ul style="list-style-type: none"> • Beverage and Juices • Nuts, Fruits, Vegetables and Vegetable Products • Nutritional Food, Edible Oil, Fats and their Products 	Iron (as Fe)	In House Method MY/STP/009 based on AOAC 968.08, 20 th Edition (2016)
	Copper (as Cu)	In House Method MY/STP/009 based on AOAC 968.08, 20 th Edition (2016) MY/STP/043 based on Metrohm Manual Method 21 D 3
	Calcium (as Ca)	
	Magnesium (as Mg)	
	Manganese (as Mn)	
	Zinc (as Zn)	
	Cobalt (as Co)	
	Sodium (as Na)	
	Sodium Chloride / Salt	
	Cholesterol	In House Method MY/STP/131 based on J AOAC Vol. 78, No. 6, 1995
Total Dietary Fiber	In House Method MY/STP/030 based on SCC Technical Bulletin No. TDFAB	

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Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard test Method/ Equipment/Techniques
<u>Foods (cont.)</u> <ul style="list-style-type: none"> Dairy Products & Cocoa Beverage & Juices Nuts, Fruits, Vegetables and Vegetable Products Nutritional Food Edible Oil, Fats and Their Products 	Fatty Acid Composition	In House method MY/STP/090 based on AOAC 969.32
	Monounsaturated Fat	
	Polyunsaturated Fat	
	Saturated Fat	
	Trans Fat	
	Total Sugar	AOAC 968.28
Formaldehyde	AOAC 931.08	
<ul style="list-style-type: none"> Spices, Salted Egg Yolk Confectionary 	Sudan Red I, II, III and IV	In House Method MY/STP/132 based on Government Chemist Publication List: LGC/GC/2007/005
<ul style="list-style-type: none"> Nuts and nuts derived Products, Cereal Cereal, Animal Feed and Feed Derived Products 	Aflatoxin	In House Method MY/STP/112 based on Direct Competitive Elisa Method
	Gluten	In House Method MY/STP/235 based on Direct Competitive Elisa Method
<ul style="list-style-type: none"> Food and Beverage Products 	Benzoic Acid	In House Method MY/STP/110 based on JAOAC Vol. 70, No. 5, 1987
	Sorbic Acid	In House Method MY/STP/110 based on JAOAC Vol. 70, No. 5, 1987
	Sulphur Dioxide (or sulphites calculated as sulphur dioxide)	In House Method MY/STP/040 based on Velp Scientific manual UDK 126 D
<ul style="list-style-type: none"> Sugar and Sugar Confectionery Tea and Beverage 	Artificial Colouring <ul style="list-style-type: none"> Tartrazine Sunset Yellow Carmoisine Alura Red Brilliant Blue 	In House Method MY/STP/250 based on David A.Katz (2009), The extraction and identification of artificial food colours
Fat & oil Cosmetic Pharmaceuticals	Water content	In House Method MY/STP/385 by Karl Fischer

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Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard test Method/ Equipment/Techniques
<ul style="list-style-type: none"> Solid & Semisolid Liquid Food 	Water Activity	In House Method MY/STP/240 based on AOAC 978.18, 20 th Edition (2016)
	Acidity	AOAC 940.15
<ul style="list-style-type: none"> Flour & Bread 	Propionic Acid	In House Method MY/STP/242 based on International Food Research Journal 17:1107-1112
<ul style="list-style-type: none"> Bird Nest & Bird Nest Products 	Sialic Acid	In House Method MY/STP/246 based on Food Science Vol. 31, Iss 8, 233-236 (2010)
<ul style="list-style-type: none"> Palm Oil & Palm Oil Products Edible Oils 	Moisture and Volatile Matter	MPOB P2.1 Part 1
	Impurities	MPOB P2.2
	Peroxide Value	MPOB P2.3
	Acidity / Free Fatty Acid	MPOB P2.5
	Saponification Value	MPOB P3.1
	Unsaponifiable Matter	MPOB P2.7
	Iodine Value	MPOB P3.2
	DOBI of CPO	MPOB P2.9
	Anisidine Value	MPOB P2.4
	Mineral Oil (Qualitative)	AOAC 945.102

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SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
<u>Agricultural Products and Materials</u> Fertilizer	Total Nitrogen Ammoniacal Nitrogen Nitrate Nitrogen	MS 417:Part 3
	Total Phosphorus (as P ₂ O ₅) Water soluble P ₂ O ₅ Citric acid soluble P ₂ O ₅	MS 417:Part 4
	Potassium (as K ₂ O)	MS 417:Part 5
	Magnesium (as MgO) Water soluble MgO	MS 417:Part 6
<u>Agricultural Products and Materials</u> Animal Feeds <u>Foods</u> Cereal, cereal product, starch & bread Milk & milk product Sweetening substance Flour confection Meat & Meat Product Fish & fish product Egg & egg product Edible fat & edible oil Vegetable & vegetable product Fruit & fruit product Jam, fruit jelly, marmalade & seri kaya Nut & nut product Tea, coffee, chicory & related product Cocoa & cocoa product Salt & spice Vinegar, sauce, chutney & pickle Soft drink	Arsenic (as As)	In House Method MY/STP/375 based on AOAC 999.10, 20th Ed (2016) (Microwave digestion), analyzed by ICP-OES
	Cadmium as (as Cd)	
	Lead (as Pb)	
	Mercury (as Hg)	
	Tin (as Sn)	
	Antimony (as Sb)	

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SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
<u>Drugs and Pharmaceuticals</u> Powder Tablet Hard gel capsule Soft gel capsule Pill Oil Liquid Cream Ointment Traditional herbs Cosmetics & Essential oils Cosmetics and toiletries	Arsenic (as As)	In House Method MY/STP/375 based on AOAC 999.10, 20th Ed (2016) (Microwave digestion), analyzed by ICP-OES
	Cadmium as (as Cd)	
	Lead (as Pb)	
	Mercury (as Hg)	
	Tin (as Sn)	
	Antimony (as Sb)	
<u>Foods</u> Cereal, cereal product, starch & bread Milk & milk product Sweetening substance Flour confection Meat & Meat Product Fish & fish product Egg & egg product Edible fat & edible oil Vegetable & vegetable product Fruit & fruit product Jam, fruit jelly, marmalade & seri kaya Nut & nut product Tea, coffee, chicory & related product Cocoa & cocoa product Salt & spice Vinegar, sauce, chutney & pickle Soft drink	Vitamin D2 (as Ergocalciferol)	In House Method MY/STP/380 based on AOAC 2002.05, 20th Ed (2016)- (HPLC)
	Vitamin D3 (as Cholecalciferol)	
<u>Drugs and Pharmaceuticals</u> Edible oils, fats and their products	Vitamin E (as alpha tocopherol) Tocotrienols (α -tocotrienol, β -tocotrienol, γ -tocotrienol, δ -tocotrienol)	In House Method MY/STP/404 based on ISO 9936:2016 (HPLC)

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SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Foods Beverage and juices Cheese & milk product Coffee & coffee product	Potassium (as K)	In House Method MY/STP/009 based on AOAC 968.08, 20th Ed (2016)
Foods Milk and milk product Sweetening substances Fruit & fruit product Soft drink Tea, coffee, chicory & related product	Sugar Profile Sucrose Glucose Maltose Lactose Fructose	In House Method MY/STP/382 based on GB 5009.8 – 2016 (HPLC)
Pharmaceutical products & Traditional medicines Tablets and capsules	Uniformity of weight	USP-NF Chapter <2091>
	Disintegration Test	BP (Appendix XII A. Disintegration)

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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 Medicine, Toiletries and Cosmetic	Total Aerobic Microbial Count – Plate Method	USP– NF– Chapter 2021
	Total Yeast & Mould Count	USP–NF–Chapter 2021
	<i>E.coli</i>	BP (Appendix XVI B)
	<i>Salmonella spp.</i>	BP (Appendix XVI B)
	<i>Staphylococcus aureus</i>	BP (Appendix XVI B)
	Bile-tolerant gram-negative bacteria / Enterobacteriaceae	BP (Appendix XVI B)
	<i>Pseudomonas aeruginosa</i>	BP (Appendix XVI B)
	Total Aerobic Microbial Count	BP (Appendix XVI B) (Plate Count Method)
Total Yeast & Mould Count	BP 2019 (Appendix XVI B) (Plate Count Method)	
Water, Waste Water, Portable Water & Drinking Water	Total Plate Count / Heterotrophic Plate Count	APHA 9215 B (Pour Plate Method)
	Total Plate Count	APHA 9215 D (Membrane Filtration)
	Total Coliform	APHA 9222 B (Membrane Filtration)
	Fecal Coliform / <i>E.coli</i>	APHA 9222 D (Membrane Filtration)
	Fecal Coliform / <i>E.coli</i>	APHA 9221 E/F (Multiple Tube Method)
	Total Coliform	APHA 9221 B (Multiple Tube Method)
	<i>Legionella spp.</i> including <i>Legionella pneumophilla</i>	AS 3896

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SCOPE OF TESTING: MICROBIOLOGY

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 Deionised water Mineral water Drinking water Dialysis water Reverse osmosis water Cooling tower water	Pseudomonas aeruginosa	APHA 9213 E (Membrane Filtration)
	Fecal streptococci / Enterococci	APHA 9230 C (Membrane Filtration)
	Clostridium perfringens	BS ISO 14189 (Membrane Filtration)
	Sulfite-reducing anaerobes (Clostridia)	BS ISO 26461-2 (Membrane Filtration)
Foods Cereal, cereal product, starch & bread Milk & milk product Sweetening substance Confectionery Meat & Meat Product Fish & fish product Egg & egg product Edible fat & edible oil Vegetable & vegetable product Fruit & fruit product Jam, fruit jelly, marmalade & seri kaya Nut & nut product Tea, coffee, chicory & related product Cocoa & cocoa product Salt & spice Vinegar, sauce, chutney & pickle Soft drink	Coliform	AOAC 991.14 (Petrifilm Method)
	Escherichia coli	
	Rapid Yeast & Mould	AOAC 2014.05 (Petrifilm Method)
	Aerobic Plate Count	AOAC 990.12 (Petrifilm Method)

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SCOPE OF TESTING: MICROBIOLOGY

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard test Method/ Equipment/Techniques
All types of food and food related samples <ul style="list-style-type: none"> • Foods • Alcoholic Beverages • Dairy Products • Edible Oils, Fats & their Product • Egg & Egg Products • Essential Nutrients including Vitamins • Fish & Fish Products • Flour & Confectionery • Food Additives & Supplement • Honey & Honey Products • Infant Foods • Meat, Poultry & Derived Products • Non-alcoholic Beverages • Nut, Fruit & Vegetables and Derived Products • Pet Foods • Sauces, Herbs, Spices and Condiments • Sugars & Sugar Products 	Aerobic Plate Count	FDA – BAM Chapter 3
	Total Yeast & Mould Count	FDA – BAM Chapter 18
	Coliform	FDA – BAM Chapter 4 (Solid Medium Method)
	Coliform	FDA – BAM Chapter 4 (MPN Method)
	<i>E.coli</i>	FDA – BAM Chapter 4 (Solid Medium Method)
	<i>E.coli</i>	FDA – BAM Chapter 4 (MPN Method)
	<i>Salmonella spp.</i>	FDA – BAM Chapter 5
	Enterobacteriaceae	AOAC 2003.01, 20th Edition (Petri-film Method)
	<i>Coagulase positive staphylococci / Staphylococcus aureus</i>	FDA – BAM Chapter 12 (Spread Plate Method)
	<i>Bacillus cereus</i>	FDA – BAM Chapter 14
	<i>Clostridium perfringens</i>	FDA – BAM Chapter 16
	<i>Vibrio cholerae</i>	FDA – BAM Chapter 9
	<i>Vibrio parahaemolyticus</i>	FDA – BAM Chapter 9
	<i>Listeria spp.</i> <i>Listeria monocytogenes</i>	FDA – BAM Chapter 10
	<i>Vibrio vulnificus</i>	FDA – BAM Chapter 9
<i>Clostridium botulinum</i>	FDA – BAM Chapter 17	
Canned Food	Thermophilic Bacteria	FDA – BAM Chapter 21
	Anaerobic Organisms	FDA – BAM Chapter 21
	Leakage Organisms	FDA – BAM Chapter 21

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SCOPE OF TESTING: MICROBIOLOGY

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard test Method/ Equipment/Techniques
Microbiological Monitoring (Environmental Monitoring, Air & Work Surfaces)	Air monitoring by cascade impactor <ul style="list-style-type: none"> • Total bacteria count/Total plate count • Total yeast count • Total mold count • Total yeast and mold count 	NIOSH method 0800 (Issue 1: 15 Jan 1998) MY/STP/185 based on NIOSH method 0800 (Issue 1:15 Jan 1998)
	Swab contact method	In House Method MY/STP/175 based on Compendium of Methods for The Microbiological Examination of Foods, 4 th Edition 2001 (Chapter 3)
	Sedimentation Method	In House Method MY/STP/175 based on Compendium of Methods for The Microbiological Examination of Foods, 4 th Edition 2001 (Chapter 3)
	Surface contact method Swab contact method Sponge contact method Rinse solution method Packaging containers Air sampling method Sedimentation method Impaction method	In House Method MY/STP/175 based on Compendium of Methods for the Microbiological Examination of Foods, 4 th Edition 2001 (Chapter 3)
	Identification of surface contact method, rinse solution method, air sampling method: Total Plate Count Yeast & Mold Count <i>E.coli</i> Coliform <i>Staphylococcus aureus</i> Enterobacteriaceae <i>Bacillus cereus</i> <i>Clostridium perfringens</i> <i>Salmonella spp.</i> <i>Listeria spp.</i> <i>Listeria monocytogenes</i>	

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Notes:

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

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