

NO: SAMM 564

Page: 1 of 16

LABORATORY LOCATION/ CENTRAL OFFICE:	My CO2 (KL) Sdn Bhd No.40, Jalan Sepadu B25/B, 40400 Shah Alam, Selangor , 40400, SELANGOR MALAYSIA
	
ACCREDITED SINCE :	06 APRIL 2025
FIELD(S) 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).

CENTRAL LOCATION:	My CO2 (KL) Sdn Bhd No.40, Jalan Sepadu B25/B, 40400 Shah Alam, Selangor , 40400, Selangor
FIELD(S) OF TESTING :	CHEMICAL, MICROBIOLOGICAL

SCOPE OF TESTING : CHEMICAL

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
& Seri Kaya	None	None
& Seri Kaya Nut & Nut	None	None
Agricultural Products And	Arsenic (as As)	None
	Moisture	In-house Method UHW02-02-1
	Total Potassium	In-house Method UHW02-06-1
	None	None
	None	None
	Moisture	MS 417: Part 2 :1994 (Oven Drying
	Total Magnesium (as MgO)	MS 417-6:2020, Clause 6.1, Method
	Moisture	MS 417: Part 2 : 1994 (Oven Drying

Schedule

Issue date: 06 April 2025
Valid Until: -



NO: SAMM 564

Page: 2 of 16

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Agricultural Products And Materials Fertilizer	Moisture	MS 417: Part 2 :1994 (Oven Drying
	Total Phosphorous (as	In-house Method, Ref. No. F3,
	Total Nitrogen Ammoniacal Nitrogen Nitrate Nitrogen	MS 417:Part 3:1994
	Total Phosphorus (as P2Os)	None
Beverage And Juices	None	None
	None	by UHPLC
Bird Nest & Bird Nest Products	Sialic Acid	MY/STP/246 based on Food Science Vol. 31, Iss 8, 233-236 (2010)
Cereal, Cereal Product,	None	None
Cheese & Milk Product	None	None
Cocoa & Cocoa Product Salt & Spice	Tin (as Sn)	None
Coffee & Coffee Product	Potassium	MY/STP/009 based on AOAC 968.08, 20th Ed (2016)
Cooling Purposes, Steam	Chloride	APHA 4500 -" D (2005)
Cosmetics And Toiletries	Tin (as Sn)	None
	Antimony (as Sb)	None
	Hydroquinone	In-House No. FH 32
	Pseudomonas aeruginosa	In-house No. M36
Drinking Water	None	None
	Fluoride	HACH Method 10225
	Nitrate	HACH Method 8171
	Nitrite	HACH Method 8507
	Phenols	HACH Method 8047
	Phosphorus	HACH Method 8048
	Phosphate	HACH Method 8048
	None	None
	Sulphide,	APHA 4500-S? C & F
	None	None
	None	None
	Chloride	HACH 8113
	Total Plate Count	APHA 9215 B
	None	None
	None	None
	None	None
	None	None
	Calcium	3120 B
	Cyanide	APHA? 4500 & F
	Formaldehyde	APHA? 6252 B
	Phenol	APHA? 5530 B & C
	Hardness	2340B
	Aluminium (Al)	None
	Biochemical Oxygen Demand	APHA 5210 B & 4500-0 G,
	Zinc as Zn	APHA 3120 B, (2017)
	None	Multiple-Tube Fermentation

Schedule

Issue date: 06 April 2025
Valid Until: -



NO: SAMM 564

Page: 3 of 16

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	None	Multiple-Tube Fermentation
	None	None
	None	None
	Temperature	APHA 2550 B
	None	None
	None	None
	Epichlorohydrin	In-house JKM W 0413 by Purge and
	Determination of PAHs in	In-house Method JKM W 0414,
	Organochlorine Pesticides	In-house Method JKM W 0502,
	Determination of Anions by Ion	In-house Method JKM W 0303,
	Coliform and Escherichia coli	JKM M 2032
	Turbidity	APHA - 2130B
	Total Nitrogen as N	APHA - 4500Norg B & APHA -
	Oil & Grease	APHA - 5520B or APHA - 5520D
	Antimony as Sb	Plasma Optical Emission
	Antimony as Sb	None
	Selenium as Se	None
	Fluoride as F	Chromatography with Chemical
	Dichlorobromomethane	None
	None	None
	Organophosphorus Pesticides	In-House No. G11 based on EPA
	Organochlorine Pesticides	EPA 525.3 (GCMS)
	Total Hardness as CaCO3	APHA-2340B
	Poly Aromatic Hydrocarbons	In-House No. G5 (based on World
	Polychlorobiphenyls(PCB)	In-House No. G2 based on EPA
	nC29 to nC35	None
	n-Tetracontane	None
	None	Method)
	Sulphite-reducing Anaerobes	ISO 6461/2: 1986
	Aluminium as Al	None
	None	None
	pH	APHA 4500-H + B, 21% Edition
	Trivalent Chromium	In-House Method SOP-0217-2029
	None	None
	Chloride as Cl	Suppression of Eluent Conductivity
	Conductivity	APHA 2510 B, 21% Edition
	Combined Chlorine as Cl2	APHA 4500-Cl G, 21st Edition 2005
	None	None
	Staphylococcus aureus	AOAC OMA 2003.08
	Chlorite (ClO2)	In House Method 6023, based on
	None	None
	None	None
	Mineral Oil	APHA 5520 F
	Fluoride	APHA C
	None	None

Schedule

Issue date: 06 April 2025
Valid Until: -



NO: SAMM 564

Page: 4 of 16

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Heterotrophic Plate Count	APHA 9215 D
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	126, based on Thermo Fisher Application Noted 154
	Phenol	APHA 6420C, 24" Edition
	None	In-house method SGS-TM-ENVI-W-
	Organochlorine Pesticide	APHA 6630B, 24" Edition
	Conductivity	APHA 2510 B
	None	Boiling Cell Method
	None	QIAGEN Mericon? Bacteria Kit
	None	spp. by Gel Electrophoresis
	None	monocytogenes by Gel
	None	Real Time Polymerase Chain
	and Escherichia coli count	9222 H
	Coliform and Escherichia coli	Presence/absence Technique
	pH	APHA 4500-H* B
	Colour	APHA 2120B
	Turbidity	APHA 2130B
	Free Chlorine	HACH Method No . 8021
	Ammonia as N	HACH Method No . 8038
	as Fe	HACH Method No . 8008
	Manganese as Mn	HACH Method No . 8149
	Fluoride as F	HACH Method No . 8029
	Aluminium as Al	HACH Method No . 8326
	pH	APHA 4500-H* B
	Colour	APHA 2120B
	Turbidity	APHA 2130B
	Free Chlorine	HACH Method No . 8021
	Ammonia as N	HACH Method No . 8038
	as Fe	HACH Method No . 8008
	Manganese as Mn	HACH Method No . 8149
	Fluoride as F	HACH Method No . 8029
	Aluminium as Al	HACH Method No . 8326
	Total Dissolved Solids	APHA 2540. C
	Total Dissolved Solids	APHA 2540. C
Drugs And	None	None
	None	None
Drugs And Pharmaceuticals	Vitamin E (as alpha tocopherol)	MY/STP/404 based on ISO
	Tocotrienols (a-tocotrienol, B-	
	Uniformity of Weight (Mass)	BP 2023, Appendix XII C. 1
	Deliverable Volume	USP NF 2023

Schedule

Issue date: 06 April 2025
Valid Until: -



NO: SAMM 564

Page: 5 of 16

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	None	None
Edible Fat & Edible Oil Vegetable & Vegetable	None	MY/STP/380 based AOAC on
Edible Oils, Fats And Their Products	tocotrienol, γ-tocotrienol, 5-tocotrienol)	9936:2016 (HPLC)
	None	None
	Energy based on Available	Nutrition Labelling, AOAC, 1993 and
	Heavy Metals by ICP-MS Iron, Fe Copper, Cu	In-House Method, SGS-WI-LAB-028 based on AOAC 986.15, 975.03, 922.02, 2011.14 & 2015.01, APHA 3120B and APHA 3125B
Egg & Egg Product	None	None
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)
Environmental Monitoring Industrial Effluent, Sewage Water, Waste Water And Leachate (cont.)	Lead	APHA 3111 B (2005)
	Copper	APHA 3111 B (2005)
	Manganese	APHA 3111 B (2005)
	Nickel	APHA 3111 B (2005)
	Tin	APHA 3111 B (2005)
	Zinc	APHA 3111 B (2005)
	Iron	APHA 3111 B (2005)
	Silver	APHA 3111 B (2005)
	Total Chromium	APHA 3111 B (2005)
	Cadmium	APHA 3111 B (2005)
	Magnesium	APHA 3111 B (2005)
	Sodium	APHA 3111 B (2005)
	Calcium	APHA 3111 B (2005)
	Potassium	APHA 3111 B (2005)
	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 D (2005)
	Sample Pre-treatment for metal analysis-Nitric acid digestion	APHA 3030 E (2005)
	Total Dissolved Solids	APHA 2540 C (2005)
Fish & Fish Product	None	None
Fish & Fish Product Egg & Egg Product Edible Fat & Edible Oil	None	MY/STP/375 based AOAC on 999.10, 20th Ed

Scan this QR Code or visit <https://accreditation.ism.gov.my/public/listing/cab/samm-ct/3004094> for the current scope of accreditation

Schedule

Issue date: 06 April 2025
Valid Until: -



NO: SAMM 564

Page: 6 of 16

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Flour & Bread	Propionic Acid	MY/STP/242 based on International Food Research Journal 17:1107- 1112
Flour Confection	None	None
Flour Confection Meat & Meat Product	Vitamin D2 (as Ergocalciferol)	None
Foods	None	None
	None	None
	None	None
	Test for Porcine Meat	In-House Method
	Protein Content	In-House Method
	Crude Ash	HV/TM/BCLAB/031
	Crude Ash	HV/TM/BCLAB/031
	None	In-House Method
	None	None
	Total Plate Count	HV/TM/MCLAB/001
	Detection of Staphylococcus using Petrifilm -" Colony Count	AOAC 998.08:2005,
	None	None
	None	(Enumeration by MPN)
	Campylobacter spp.	ISO 10272-1:2006 (E)
	None	IDF/RM 210:2006 (E)
	Formaldehyde	In-House Method, Ref. No MOH
	azelate (DEHA) -" CAS No. 000103-	In-House Method, Ref. No. MOH M03-017/ Migration Test, GCMS
	Lead (Pb)	In-House Method, Ref No.
	Total Arsenic	In-House Method, Ref. No. MOH
	Synthetic colours (13 analytes);	In-House Method, Ref. No. MOH
	Sulphathiazole	In-House Method, Ref. No.
	Total Nitrogen	JKM F 0908 based on Pearson-™s
	Rapid Determination of Thiamine	JKM F 1201: In-house based
	Determination of Vitamin A	JKM F 1203: In-house based on
	Determination of Carbohydrate	JKM F 1204: Method of Analysis for
	Determination of Total Fat in	JKM F 0925: In-house Method based
	Yeast and Mould Count	JKM M 3020
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	Macrolides:	In-house Method, Ref. No. MOH D03-
	None	None

Scan this QR Code or visit <https://accreditation.ism.gov.my/public/listing/cab/samm-ct/3004084> for the current scope of accreditation

Schedule

Issue date: 06 April 2025

Valid Until: -

NO: SAMM 564

Page: 7 of 16

[illegible]

Schedule

Issue date: 06 April 2025
Valid Until: -



NO: SAMM 564

Page: 8 of 16

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	None	None
	Metals	In-house method LWI-MFF 021
	Sodium as Na Iron as Fe Calcium as Ca	based on AOAC 968.08 (Sample Preparation) & USEPA 6010 B
	Copper as Cu	None
	Manganese as Mn	None
	Zinc as Zn	None
	Cadmium as Cd	None
	Antimony as Sb	None
	Tin as Sn	None
	Lead as Pb	None
	Fat in Dried Milk	AOAC 932.06
Foods Cereal, Cereal Product,	Cadmium as (Cd)	None
Fruit & Fruit Product	Sucrose	None
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)
Infant Foods Meat, Poultry & Derived Products Non-alcoholic Beverages	Coagulase positive staphylococci / Staphylococcus aureus	FDA -" BAM Chapter 12 (2016) (Spread Plate Method)
	Bacillus cereus	FDA -" BAM Chapter 14 (2012)
Jam, Fruit Jelly, Marmalade	None	None
Materials Animal Feeds	None	None
Meat & Meat Product	Lead (as Pb)	None
Milk & Milk Product	None	None
Milk And Milk Product	None	None
	None	None
	Extraction of DNA	JKM H 7405 In-house Method
	Brucella spp.	In-House Method, Ref. No. MOH:
	None	None
Mineral Water, Reverse Osmosis Water, Industrial /	Turbidity	APHA 2130 B (2005)
Nut, Fruit & Vegetables And Derived Products	Clostridium perfringens	FDA -" BAM Chapter 16 (2001)
Nutritional And Dietary Supplement, Pharmaceutical, Traditional Medicine, Toiletries And Cosmetic	Total Aerobic Microbial Count -" Plate Method	USP 30 -" NF (2007) -" 2021
	Total Yeast & Mould Count	USP 30 -" NF (2007) -" 2021
	E.coli	BP 2019 (Appendix XVI B)
	Salmonella spp.	BP 2019 (Appendix XVI B)
	Staphylococcus aureus	BP 2019 (Appendix XVI B)
	Bile-tolerant gram-negative bacteria / Enterobacteriaceae	BP 2019 (Appendix XVI B)
	Pseudomonas aeruginosa	BP 2019 (Appendix XVI B)
	Total Aerobic Microbial Count	BP 2019 (Appendix XVI B) (Plate Count Method)

NO: SAMM 564

Page: 9 of 16

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Total Yeast & Mould Count	BP 2019 (Appendix XVI B) (Plate Count Method)
	Total aerobic microbial count -" plate method	USP30-NF25 (2007) -" 2021
	Total yeast and mold count	USP30-NF25 (2007) -" 2021
Oil Liquid Cream	Lead (as Pb)	MY/STP/375 based AOAC on 20th Ed
Ointment Traditional Herbs Cosmetics & Essential Oils	Mercury (as Hg)	(2016) (Microwave digestion), analyzed by ICP-EOS
Palm Oil & Palm Oil Products Edible Oils	Moisture and Volatile Matter	MPOB P2.1 Part 1: 2004
	Impurities	MPOB P2.2 2004
	Peroxide Value	MPOB P2.3 2004
	Acidity / Free Fatty Acid	MPOB P2.5 2004
	Saponification Value	MPOB P3.1 2004
	Unsaponifiable Matter	MPOB P2.7 2004
	Iodine Value	MPOB P3.2 2004
	DOBI of CPO	MPOB P2.9 2004
	Anisidine Value	MPOB P2.4 2004
	Mineral Oil (Qualitative)	AOAC 945.102, 20" Edition (2016)
Pharmaceutical Products & Traditional Medicines Tablets And Capsules	Uniformity of weight	USP-NF Online 2020, Chapter
	Disintegration Test	BP 2019 (Appendix XII A. Disintegration)
Pharmaceuticals	Arsenic (as As)	None
	None	None
	None	None
Pickle	None	None
Pill	None	None
	None	None
	None	None
	None	(Detection)
	Betamethasone	In-House Method SOP-0217-1027
Portable Water	None	None
	None	None
	None	None
	Coliforms and Escherichia coli - Most Probable Number (MPN) Method	AS 1766.2.3 of Australian Standard? Food Microbiology : Examination for specific organisms - Coliforms and Escherichia coli
	None	ISO 9308-1:2014(E)
Powder Tablet Hard Gel Capsule Soft	Cadmium as (Cd)	None
Product Fruit & Fruit Product Jam, Fruit Jelly, Marmalade	None	2002.05, 20th Ed (2016)-(HPLC)
Product Sweetening Substance	None	None
Raising / Boiler Water, Swimming Pool Water & Spa, Surface Water And Drinking Water (cont.)	Hardness	APHA 2340 C (2005)
	Nitrate	APHA 4500 -" NOs B (2005)
	Nitrite	APHA 4500 -" NOz B (2005)
	Sulphate	APHA 4500 -" (2005)

Schedule

Issue date: 06 April 2025
Valid Until: -



NO: SAMM 564

Page: 10 of 16

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Total Dissolved Solid	APHA 2540 C (2005)
	Anionic Surfactant -" Detergent MBAS	APHA 5540 C (2005)
	Organochlorine Pesticide -"	None
Raw And Treated Water	None	MY/STP/015 based on APHA 3120 B
Related Product	None	None
	Lactose	None
	None	None
Related Product Cocoa & Cocoa Product	Vitamin D3 (as Cholecalciferol)	None
River Water	None	None
	Color (ADMI)	APHA 2120 F
	None	None
	None	HACH Method 8039
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	Colour ADMI	APHA 2120 F
	Fecal Coliform	APHA 9221 E
	Escherichia coli (Membrane Filter Technique)	APHA 9222 G, Edition, 2005
	Nickel (Ni)	None
	5 Days @ 20°C	23°4 Edition (2017)
	Iron (Fe)	None
	Conductivity	APHA 2510 B
	Temperature (in situ)	In House OEL ? SP/23-01 Based On
	Fecal Coliform	APHA 9222 D
	Colour	APHA - 2120B
	Sulphide	APHA - 4500S-F
	Metals:	APHA - 3120B; Inductive Coupled
	Metals:	USEPA 200.8(ICPMS)
	Nickel as Ni	USEPA 200.8(ICPMS)
	Anions:	APHA - 4110 B; Ion
	Trihalomethanes:	APHA - 6200 B (GCMS)
	Phorate	None
	Beta-lindane	None
	Free Carbon Dioxide	APHA-4500CO2-C
	Acenaphthene	None
	Trichlorophenoxypropionic Acid)	University of Technology (HPLC)
	n-Hentriacontane	None
	Heterotrophic Plate Count (35°C)	APHA - 9215B; 2017 (Pour Plate
	None	None

Schedule

Issue date: 06 April 2025
Valid Until: -



NO: SAMM 564

Page: 11 of 16

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Uranium (U)	In House Method 0582 based on
	Oil and Grease (Emulsified)	APHA 5520 B & F, 2017
	None	None
	Total Phosphorus	USEPA Method 200.7
	Total Phosphate	USEPA Method 200.7
	None	None
	Enumeration of Escherichia coli	APHA 9221 G
	Standard Total Coliform	APHA 9222 B
	Colour (ADMI)	APHA 2120 F, 24" Edition
	Petroleum Hydrocarbon (C6-C10)	In-house method SGS-TM-ENVI-S- 001 (Solvent Extraction / Purge-and- Trap GC-MS)
	None	018 based on APHA 9222 B (Membrane Filtration)
	Sulphite -" Reducing Anaerobes	ISO 6461/2:1986 (Membrane
	Total Coliform Count	APHA 9222 B
	Total Dissolved Solid	APHA 2540 C
	Barium as Ba	None
	None	None
	None	None
Salt & Spice	None	None
Sauces, Herbs, Spices And Condiments	Vibrio parahaemolyticus	FDA -" BAM Chapter 9 (2004)
	Coagulase Positive Staphylococcus aureus (MPN method)	In house method MY/STP/256 based on FDA-BAM Chapter 12, 2014
	None	AOAC Official Method 2014.05
Sewage Water Industrial Effluent	Chromium Trivalent (as Cr3+)	and APHA 3500-Cr B (2005) by calculation
Soft Drink	Antimony (as Sb)	None
	None	None
	Glucose	MY/STP/382 based on GB 5009.8 -"
	Ponceau 4R	Talanta, page 1408 -" 1413, Vol. 74,
Solid & Semisolid Liquid Food	Water Activity	MY/STP/240 based on AOAC 978.18, 20 Edition (2016)
	Acidity	AOAC 940.15, 20" Edition (2016)
Starch & Bread	None	None
Starch & Bread Milk & Milk	None	None
Surface Water	None	None
	Phosphate	APHA 4500-P Method D, Stannous Chloride Method, Edition
	None	APHA 4500-NOs E, 22"4 Edition,
	None	None
	None	None
	Chromium	None
	None	None
	pH Value	APHA 4500-H* (APHA Method 21*

Schedule

Issue date: 06 April 2025
Valid Until: -



NO: SAMM 564

Page: 12 of 16

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	e Arsenic	None
	None	None
	None	Technique
	None	None
	None	Method Edition (2005)
	Alkalinity	APHA 2320 B Titration Method 21s
	None	Method by Discrete Analyzer
	Caustic Alkalinity as CaCO ₃	APHA - 2320B
	Barium as Ba	None
	None	(MPN Technique)
	Conductivity	APHA 2510 B, 2017
	Chlorate	Metrohm IC Application, Note No.
	None	Metrohm Technical Note
	Hydrocarbon	APHA 5520 F 2017
	Vanadium (V)	APHA 3120 B, 2017
	Free Carbon Dioxide (by calculation)	APHA 4500 CO ₂ D, 2017
	None	None
	None	APHA 2550 B, 2017
	Chromium, Cr	None
	VOCs	EPA Method 5030B: 1996; EPA
	None	None
	None	None
	None	(Membrane Filter Technique)
	None	None
Sweetening Substance	None	None
	Fructose Glucose	using High Performance Liquid Chromatography
Sweetening Substances	Sugar Profile	None
Tea, Coffee, Chicory &	None	None
	None	None
	Maltose	2016 (HPLC)
Vegetable & Vegetable Product	Mercury (as Hg)	digestion), analyzed by ICP-EOS
Fruit & Fruit Product		
Vinegar, Sauce, Chutney &	None	None
Vinegar, Sauce, Chutney & Pickle	None	None
Waste Water	None	None
	Oil and grease	APHA 5520B: 2005
	None	None
	None	None
	None	APHA 9222 (2017)

NO: SAMM 564

Page: 13 of 16

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Beta-BHC	None
	Total Suspended Solids	APHA - 2540D
	Mercury as Hg	APHA - 3112B
	Antimony as Sb	Coupled Plasma Optical Emission
	Chromium as Cr	None
	Bromide as Br	None
	Fecal Coliform	APHA - 9221E.1; 2017 (MPN
	Nitrate	APHA 4500 NOs 21° Edition
	None	(by Calculation)
	Formaldehyde	UHPLC based on EPA 1667 Rev. A
	None	APHA 3030 E & APHA 3030 F, 21%
	None	None
	None	None
	None	None
	liquor (MLSS)	None
	liquor (MLSS)	None
Water (cont.) Portable Water	Thallium (as Tl)	None
Water Portable & Domestic Water, Ground Water,	Colour (Spectrophotometric Method)	APHA 2120 C (2005)
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)	APHA 3030 F(b) & APHA 3120 B (2005) analyzed by ICP-OES
	Arsenic (as As)	APHA 3030 F(b) & APHA 3120 B (2005) analyzed by ICP-OES
	Barium (as Ba)	APHA 3030 F(b) & APHA 3120 B (2005) analyzed by ICP-OES
	Boron (as B)	APHA 3030 F(b) & APHA 3120 B (2005) analyzed by ICP-OES
	Cadmium (as Cd)	APHA 3030 F(b) & APHA 3120 B (2005) analyzed by ICP-OES
	Calcium (as Ca)	APHA 3030 F(b) & APHA 3120 B (2005) analyzed by ICP-OES
	Copper (as Cu)	APHA 3030 F(b) & APHA 3120 B (2005) analyzed by ICP-OES
	Cobalt (as Co)	APHA 3030 F(b) & APHA 3120 B (2005) analyzed by ICP-OES
	Iron (as Fe)	APHA 3030 F(b) & APHA 3120 B (2005) analyzed by ICP-OES
	Lead (as Pb)	APHA 3030 F(b) & APHA 3120 B (2005) analyzed by ICP-OES
	Lithium (as Li)	APHA 3030 F(b) & APHA 3120 B (2005) analyzed by ICP-OES
	Magnesium (Mg)	APHA 3030 F(b) & APHA 3120 B (2005) analyzed by ICP-OES

NO: SAMM 564

Page: 14 of 16

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Mercury (as Hg)	APHA 3030 F(b) & APHA 3120 B (2005) analyzed by ICP-OES
	Manganese (as Mn)	APHA 3030 F(b) & APHA 3120 B (2005) analyzed by ICP-OES
	Nickel (as Ni)	APHA 3030 F(b) & APHA 3120 B (2005) analyzed by ICP-OES
	Potassium (as K)	APHA 3030 F(b) & APHA 3120 B (2005) analyzed by ICP-OES
	Selenium (as Se)	APHA 3030 F(b) & APHA 3120 B (2005) analyzed by ICP-OES
	Silver (as Ag)	APHA 3030 F(b) & APHA 3120 B (2005) analyzed by ICP-OES
	Sodium (as Na)	APHA 3030 F(b) & APHA 3120 B (2005) analyzed by ICP-OES
	Strontium (as Sr)	APHA 3030 F(b) & APHA 3120 B (2005) analyzed by ICP-OES
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 (2005)
	Biological Oxygen Demand (BOD)	APHA 5210 B (2005) APHA 4500 -" O.G
	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)
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	APHA 3111 B (2005)
	Calcium	APHA 3111 B (2005)
	Copper	APHA 3111 B (2005)
	Total Chromium	APHA 3111 B (2005)
	None	APHA 3111 B (2005)
	Lead	APHA 3111 B (2005)
	Magnesium	APHA 3111 B (2005)
	Manganese	APHA 3111 B (2005)
	Nickel	APHA 3111 B (2005)
	Potassium	APHA 3111 B (2005)
	Silver	APHA 3111 B (2005)
	Sodium	APHA 3111 B (2005)
	Tin	APHA 3111 B (2005)
	Zinc	APHA 3111 B (2005)
	Fluoride	APHA 4500 F -" D (2005)
	Phenol	MY/STP/069 based on APHA 5530 B & APHA 5530 D (2005)
	Sulphide	APHA 4500 -" S* D (2005)
	Chlorine (Residual)	APHA 4500 Cl-G (2005)
	Sulfide	APHA 4500 C & F (2005)
	Cyanide	APHA 4500 CN- C&E (2005)
	Colour (ADMI)	APHA 2120 F (2005)

NO: SAMM 564

Page: 15 of 16

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Water Sewage Water Industrial Effluent And Leachate Mineral Water	Tin (as Sn)	APHA 3030 F(b) & APHA 3120 B (2005) analyzed by ICP-OES
	Total Chromium (as Cr)	APHA 3030 F(b) & APHA 3120 B (2005) analyzed by ICP-OES
	Zinc (as Zn)	APHA 3030 F(b) & APHA 3120 B (2005) analyzed by ICP-OES
Water, Waste Water, Portable Water & Drinking Water	Total Plate Count / Heterotrophic Plate Count	APHA 9215 B (2005) (Pour Plate Method)
	Total Plate Count	APHA 9215 D (2005) (Membrane Filtration)
	Total Coliform	APHA 9222 B (2005) (Membrane Filtration)
	Fecal Coliform / E.coli	APHA 9222 D (2005) (Membrane Filtration)
	Fecal Coliform / E.coli	APHA 9221 E/F (2005) (Multiple Tube Method)
	Total Coliform	APHA 9221 B (2005) (Multiple Tube Method)
	Legionella spp. including Legionella pneumophilla	AS 3896: 2017

SCOPE OF TESTING : MICROBIOLOGY

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
All Types Of Food And Food Related Samples Foods E Alcoholic Beverages E Dairy Products E Edible Oils, Fats & Their E Product Egg & Egg Products Essential Nutrients Including Vitamins Fish & Fish Products Flour & Confectionery Food Additives &	Aerobic Plate Count	FDA -" BAM Chapter 3 (2001)
	Total Yeast & Mould Count	FDA -" BAM Chapter 18 (2001)
	Coliform	FDA -" BAM Chapter 4 (2017) (Solid Medium Method)
	Coliform	FDA -" BAM Chapter 4 (2017) (MPN Method)
	E.coli	FDA -" BAM Chapter 4 (2017) (Solid Medium Method)
	E.coli	FDA -" BAM Chapter 4 (2017) (MPN Method)
	Salmonella spp.	FDA -" BAM Chapter 5 (2018)
Canned Food	Thermophilic Bacteria	FDA -" BAM Chapter 21
	Anaerobic Organisms	FDA -" BAM Chapter 21
	Leakage Organisms	FDA -" BAM Chapter 21
	Thermophilic Bacteria	FDA -" BAM Chapter 21
	Anaerobic Organisms	FDA -" BAM Chapter 21
	Leakage Organisms	FDA -" BAM Chapter 21
	Water Activity	BS ISO 21807:2004

Schedule

Issue date: 06 April 2025
Valid Until: -



NO: SAMM 564

Page: 16 of 16

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Thermophilic Flat Sour Sporeformers	Chapter 25, Compendium of
	Vitamin D2 (ergocalciferol)	by UHPLC
	None	FDA/BAM Chapter 3, Jan 2001
	None	None
	None	Analysis for Nutrition Labeling,
Nut & Nut Product	None	None
Pet Foods	Vibrio cholerae	FDA -" BAM Chapter 9 (2004)
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	Escherichia coli Count	AS 5013.15 -" 2004
	None	Count Plate)
Sauces & Ketchup Coffee	3 Monochloro-propane-1,2 diol (Free 3-MCPD & 3-MCPD ester)	MY/STP/243 based on Czech J. Food Sci Vol. 22, No.5:182-189
Sugars & Sugar Products	Listeria spp. Listeria monocytogenes	FDA -" BAM Chapter 10 (2017)
	Vibrio vulnificus	FDA -" BAM Chapter 9 (2004)
	Clostridium botulinum	FDA -" BAM Chapter 17 (2001)
Supplement Honey & Honey Products	Enterobacteriaceae	AOAC 2003.01, 20th Edition (2016) (Petrifilm Method)

Scan this QR Code or visit <https://accreditation.ism.gov.my/public/listing/cab/samm-ct/3004084> for the current scope of accreditation