

Schedule

Issue date: 06 April 2025
Valid Until: -



NO: SAMM 822

Page: 1 of 18

LABORATORY LOCATION/ CENTRAL OFFICE:	Bio Synergy Laboratories Sdn. Bhd., Penang No. 24, Jalan Kelisa Kemas Taman Kelisa Kemas Seberang Jaya, Pulau Pinang , 13700, MALAYSIA
	
ACCREDITED SINCE :	06 APRIL 2025
FIELD(S) OF TESTING:	CHEMICAL MECHANICAL 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:	Bio Synergy Laboratories Sdn. Bhd., Penang No. 24, Jalan Kelisa Kemas Taman Kelisa Kemas Seberang Jaya, Pulau Pinang , 13700,
FIELD(S) OF TESTING :	CHEMICAL, MECHANICAL, MICROBIOLOGICAL

SCOPE OF TESTING : CHEMICAL

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
(lev) Fumehood	Capture Velocity	Safety and Health for Design,
*local Exhaust Ventilation	Face Velocity	Malaysia Guidelines on Occupational
Additives To Foods Herbs And Spices Other Food Products	Escherichia coli Count	ISO 16649-2:2001(E) (Pour Plate Technique)
Air Emission From Stationary	Particulate Matter	USEPA 40 CFR60 App A, Method 1,
Ambient Air Monitoring	Particulate matter 2.5	In House Method PCL-ENV-020
	Determination of Suspended	USEPA 40 Part 50, Appendix B

Schedule

Issue date: 06 April 2025
Valid Until: -



NO: SAMM 822

Page: 2 of 18

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Non-methane Volatile Organic Compounds (NMVOC) (See Appendix 10 for list)	In-house method SGS-TM-ENVI-A-006 with reference to NIOSH 1500 and 1501
Animal Feed	Crude Fat	MS 1416 : 1997
	Protein Content	AOAC Official Method 2001.11
	Moisture	MS ISO 6496:2003
	Protein (Crude)	AOAC 2001.11
	Crude Ash	ISO 5984:2022
	Crude Protein and Total	ISO 1871:2009
Animal Feeds	None	ISO 16649-3:2015 (MPN Technique)
	None	None
	Crude Protein	AOAC 2001.11. 21st Edition, 2019
	Ash	AOAC 942.05. 21% Edition, 2019
	Aflatoxin, 10002098 (Sh-Aq-	Agraquant® Total Aflatoxin 4/40 Elisa
	Aflatoxin Total)	Kit
	Ochratoxin, 10002102 (Sh-Aq-	Agraquant® Ochratoxin 2/40 Elisa Kit
	Ochratoxin)	None
	Zearalenone, 10002111 (Sh-Aq-	Agraquant® Zearalenone Plus
	Zearalenone)	25/1000 Elisa Kit
	T-2 Toxin, 10002113	Agraquant® T-2 Toxin 20/500 Elisa
	Toxin)	Kit
	Deoxynivalenol, 10002106 (Sh-Aq-	Agraquant®
	Deoxynivalenol)	Deoxynivalenol 0.25/5.0 Elisa Kit
	Fumonisin, 10002104 (Sh-Aq-	Agraquant® Fumonisin 0.25/5.0 Elisa
	Fumonisin)	Kit
	Yeast And Mold (Petrifilm)	AOAC 997.02. EDITION, 2019
	E. Coli And Coliform	Determination of Coliform & E.coli
	E. Coli And Coliform	(Pour Plate Method) - AOAC
	E. Coli And Coliform	performance tested. Certificate no.
	E. Coli And Coliform	020902
Beverages	Salmonella Spp. (Petrifilm)	AOAC 2014.01. 21% Edition, 2019
	None	None
	None	None
	None	None
	Protein/Total Nitrogen	In-house Method SOP-0217-1031 by
	Total Dietary Fiber	AOAC 985.29
	Sorbic Acid	based on Journal of
	None	to 1-17 (HPLC)
	Ethanol	In-house method LWI-TEC-
	None	None
	Sorbic Acid in Food by Ultra High	based on AOAC Official Method

Scan this QR Code or visit <https://accreditation.ism.gov.my/public/listing/cab/samm-ct/3004196> for the current scope of accreditation

Schedule

Issue date: 06 April 2025
Valid Until: -



NO: SAMM 822

Page: 3 of 18

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Performance Liquid Chromatography	983.16, Benzoic Acid and Sorbic
	Performance Liquid Chromatography	Acid in Food, AOAC International,
	Performance Liquid Chromatography	2005
	Determination of caffeine in Soft Drink by Ultra High Performance Liquid Chromatography	In-house method FQL-TM-FA202 based on Ashoor et. Al. J. Assoc. Off. Anal. Chem. Vol.66, No.3, 1983
	Liquid Chromatography	
	Liquid Chromatography	
Beverages Mixes Foods	None	AOAC Official Method 998.08 & 991.14 (3M Petrifilm)
Boiler Water	None	APHA 9221 F, 22" Edition (2012)
	None	None
	Total Dissolved Solids	APHA 2540 C, 2017
	Acidity	APHA 2310. B
	Acidity	APHA 2310. B
Cereal Products	None	None
	None	None
	None	None
	Salmonella spp detection	ISO 6579-1: 2017
Cereal Products E	None	Technique)
Chemical Exposure	Aluminium	NIOSH 7303
	Heavy Metal -" Lead	NIOSH 7082
	Cadmium, Cd	NIOSH 7048
	Dust particulate / total dust /	n-house method WI-CHM-001
Coffee And Coffee	Caffeine	GB 5009.139-2014
Condiments	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	Derivatisation
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
Condiments Sweetening Substances Beverages	Calories from Fat	Methods of analysis for nutrition labeling (1993)
Dairy Products	None	None
	Ash	based on AOAC Edition

Schedule

Issue date: 06 April 2025
Valid Until: -



NO: SAMM 822

Page: 4 of 18

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Vitamin A palmitate	In-House Method SOP-0217-1029
	None	Method
	None	By Mojonnier (gravimetric)
	Moisture	In-house Method 0509 based on
	Majonnier Fat	AOAC 932.06, Edition
	None	None
	None	None
	Shigella species	FDA-BAM Chapter 6, 2014
	None	None
	None	None
	None	AOAC, 1993)
	None	None
	Water activity	AOAC 978.18 (2000)
	None	Fluorescence Detection
	Vitamin B5	In-house method LWI-TEC-
	None	None
	Ascorbic Acid	In-house method LWI-TEC-
	Vitamin A (Retinol)	In-house method LWI-TEC-
	None	None
	None	(Pour Plate Technique)
	None	(Detection, MPN & Spread Plate
	Enterobacteriaceae Detection	ISO 21528-1: 2004
	Aerobic Plate Count	3M-„¢ Petrifilm-„¢ Rapid Aerobic
	None	None
Dairy Products E	None	None
	None	986.33: 2005 (Petrifilm)
Dairy Products E Edible Oils, Fats And Their E Products Eggs And Egg Products Fish And Fish Products Flour And Confectionery Meat, Poultry And Derived Products Nuts, Fruits And Vegetables And Derived Products Sauces, Herbs, Spices And E Condiments E Other Specified Foods	Lead Cadmium Tin Calcium e Magnesium e Iron e Zinc Copper Sodium Potassium Antimony Chromium	Based On AOAC 999.11 (Sample Preparation) and using MP-AES
	Mercury	In-house Method PCL-HMF-02 Based On AOAC 971.21 (Sample
Dairy Products E Meat And Meat E Products	None	AOAC Official Method 990.12 (3M Petrifilm)
Distilled Demineralized	Coliform Count	APHA 9222 B, 22" Edition (2012)
	Arsenic	None
Drinking Water	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

Schedule

Issue date: 06 April 2025
Valid Until: -



NO: SAMM 822

Page: 5 of 18

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Combined Chlorine as Cl ₂	APHA 4500-Cl G, 21st Edition 2005
	None	None
	Staphylococcus aureus	AOAC OMA 2003.08
	Chlorite (ClO ₂)	In House Method 6023, based on
	None	None
	None	None
	Mineral Oil	APHA 5520 F
	Fluoride	APHA C
	None	None
	Heterotrophic Plate Count	APHA 9215 D
	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

Scan this QR Code or visit <https://accreditation.ism.gov.my/public/listing/cab/samm-ct/3004196> for the current scope of accreditation

Schedule

Issue date: 06 April 2025
Valid Until: -



NO: SAMM 822

Page: 6 of 18

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	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
E Capsule	Mercury	None
E Cocoa And Cocoa	None	None
E Drinking Water	None	None
	e Barium	None
E Industrial Effluent	pH	APHA 4500- H*B
	BOD	APHA 5210 B & 4500-0 G
	COD	APHA 5220 D
	Total Suspended Solid	APHA 2540 D
	Oil & Grease	APHA 5520 B
	Ammoniacal Nitrogen	APHA 4500- B & F
	Colour	APHA 2120 F
	None	None
	Trivalent Chromium	APHA 3500-Cr B & APHA 3120 B,
	Oil and Grease	In-house method, WI-TEC-M044,
	Arsenic	None
E Oil & Cream	None	None
E Other Specified Foods	None	None
E Powder	Arsenic	None
E Tablet	Cadmium	None
E Treated Water	None	None
E Ultrapure Water	None	None
Edible Oil, Fats And Their E	Total Sugar (As invert Sugar)	In-house method Based on AOAC
Edible Oils, Fats & Their Products	Moisture & 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
	DOBI	MPOB p2.9 2004
	Iodine Value	MPOB p3.2 2004
	Colour Lovibond	MPOB p4.1 2004
	Slip Melting Point	MPOB p4.2 2004
	Mineral Oil (Qualitative)	AOAC 945.102
Eggs And Egg Products Fish And Fish Products	Sugar Profile	In House method based on AOAC
Enumeration/detection Of Microbial Count On Surface Area, Equipment And Hand	Aerobic Plate Count Yeast Count Mould Count Coliform Count	Compendium of Methods for the Microbiological Examination of Foods, Chapter 3, 4th Edition (2001) (Swab Contact Method)
Environmental Monitoring	Metals	In-house Method PCL-HMW-01
	None	None
	None	None
	Turbidity	APHA 2130 B, 2005
	Turbidity	APHA 2130 B, 2005
	Biochemical Oxygen Demand	APHA 5210 B & C, 2005
	Biochemical Oxygen Demand	DOE 2019, Reference Method,

Schedule

Issue date: 06 April 2025
Valid Until: -



NO: SAMM 822

Page: 7 of 18

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	pH	APHA 4500 H*B, 2005
	Metals by ICP	None
	Metals by ICP	None
	Metals by ICP	None
	None	In-house method, WI-TEC-S001,
	None	None
	None	None
	None	None
	Determination of Concentration and Mass Flow of Particulate	MS 1596: 2003
	Determination of Total Suspended Particulate Matter in	ASTM: D4096-91 (2003)
	Sound pressure level	Guidelines for Environmental Noise Limits and Control, Third Edition
	None	None
	None	None
	None	None
	Boron	APHA 4500-B C, 2005 APHA 4500-B C, 2017
	Sulphide	APHA 4500- D, 2005 APHA 4500- D, 2017
	Metal Analysis by ICP-OES	None
	Hydrocarbon	APHA 5520 F 2005
	None	None
	Hydrogen Bromide (HBr)	OSHA Method ID-165SG
	Temperature	APHA 2550 B, 2005
	None	None
	None	None
	Formaldehyde	In-house Method C/WTR/012
	None	None
	Aluminium	None
	Aluminium	None
	Nickel	APHA 3120 B, 24" Edition
	pH	APHA 4500 H*B
	pH	APHA 4500 H*B
	None	None
	None	None
	None	None
	COD	APHA 5220 D
	Heavy Metals	None
	Moisture	EPA Method 9000 (Karl Fischer Titration)
	None	EPA Method 1010 A
	None	Information Circular 8333,
	Total Bacteria Count	Compendium of Methods for the
	Aerobic Plate Count	In-house swab contact method
	None	None

Schedule

Issue date: 06 April 2025
Valid Until: -



NO: SAMM 822

Page: 8 of 18

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
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
Environmental Testing Enumeration Of Microbial Count In The Air Using An Open Plate	Total Plate Count Yeast Count e Mould Count e	Compendium of Methods for the Microbiological Examination of Foods, Chapter 3, 4th Edition (2001) (Sedimentation method)
Fish And Fish Products	None	None
	Carbohydrate	Labeling, AOAC: 1993 and Food
	None	None
	Chlortetracycline	by UHPLC
	None	In House Method MY/STP/179
	Nitrofurantoin metabolites	In-house method SGS-TM-FOOD-
	Biogenic Amines	In-house Method Ref. No. MOH:
	Putrescine	In-house Method, Ref. No. MOH:
	Danofloxacin	In-House Method, Ref. No. MOH:
	Pesticide Residues: Alpha-BHC Gamma-BHC Delta-HCH	In-house method, Ref. No. MOH: F03-009-Determination of Pesticide Residues in Fish, Meat, Poultry and Its Products using QUECHERS Method by Gas Chromatography.
	Benzimidazole:	In-house Method, Ref. No. MOH
	None	Microwave Digestion, ICP-OES
	Histamine	In-house Method LWI-TEC-
	None	None
	Tin	None
	None	None
	None	None
	Yeast and Molds Count	(3M-,¢ Petrifilm-,¢ Rapid Yeast
	Formaldehyde	In-house Method, Ref. No. MOH
Fish, Crustaceans And Molluscs Poultry And Poultry	Yeast & Mould Counts	ISO 21527-1:2008(E) & ISO 21527- 2:2008(E) (Spread Plate Technique)
Flour And Confectionery	None	980.13
	None	None
	Cholesterol	based on AOAC 994.10 Edition
	None	F019 based on FDA Method
	None	None
	Aflatoxin G2	None

Schedule

Issue date: 06 April 2025
Valid Until: -



NO: SAMM 822

Page: 9 of 18

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	None	None
	None	None
	None	None
	None	(MPN & Spread Plate
	None	None
Food Products:	Metals/ Minerals	In-house Method PCL-HMF-01
	Total Dietary Fiber	AOAC Method 985.29
	pH	In-house method PCL-FPH-01
	Aerobic Plate Counts	ISO 4833-1:2013 (Pour Plate
Frozen Food	None	None
	Vitamin D3 (cholecalciferol)	None
	None	None
	Standard Plate Count	AS 5013.1 -" 2004
	None	None
	None	None
	None	None
Fruit, Jams And Other Fruit Products Sugar Products,	Coliform Count	ISO 4832:2006 (Pour Plate Technique)
Honey And Confectionery	None	ISO 4831:2006 (E) (MPN Technique)
Industrial Effluent	Metals by ICP	APHA 3120 B
	None	None
	None	2540D&E
	Aluminium, Al Chromium, Cr	None
	Fluoride	APHA 4500-F- D
	Fecal Coliform Rapid Detection	APHA 9211 B
Industrial Effluent E	None	Based on APHA 3120 B using MP-
	None	None
	None	None
	Sodium (Na)	APHA 3120 B, 2005
	None	None
	Mercury	In House Method 0556 based on
	Paraquat	In House Method 0598 based on
	None	APHA 2550 B, 2017
Liquid	None	None
Meat, Poultry An Derived Products Nuts, Fruits And	Vitamin D	In House method based on AOAC 2002.05
Mineral Water	Antimony as Sb	None
	Chromium Hexavalent	APHA 3500-Cr B
	None	None
	None	None
	Hexavalent Chromium	APHA 3500 Cr B, Edition
	Chloride	APHA 4500-CI B, Edition
	Fluoride as F	Ion Chromatography with Chemical
	None	None
	(Monochloramine and	None
	None	None

Schedule

Issue date: 06 April 2025
Valid Until: -



NO: SAMM 822

Page: 10 of 18

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	None	None
	Alkalinity	APHA 2320 B, 2017
	Free Carbon Dioxide	APHA 4500-CO ₂ C, 2017
	Sodium (Na)	APHA 3120 B 2017
	None	None
	None	None
	Dieldrin	None
	None	None
	None	None
	None	None
	None	None
	Aluminum as Al	None
Mineral Water E	Aluminium as Al	AES instrument
	None	None
	None	None
	Aldrin Dieldrin	None
Mineral Water Industrial Effluent Treated Water	Fecal coliform	APHA 9222 D, Edition (2012) (Membrane Filtration Technique) APHA 9221 E, 22 nd Edition (2012)
Monitoring	Arsenic	None
	None	None
	Chromium, Cr	NIOSH 7024
	None	None
	Oxides Emissions from	Monitor FEM-7 V1.3)
	None	None
Noise	Boundary Sound Pressure Level	Malaysia Guidelines for Environmental Noise Limits &
	Measurement of noise inside	ISO 5128:1980
	Measurement of environmental Sound Pressure Level	In-house method WI-NOI-001 by DOE Guidelines for
	Measurement of Environmental Noise Levels	ISO 1996-1:2016 & ISO 1996-2:2017
	Measurement of Environmental Noise Levels	ISO 1996-1:2016 & ISO 1996-2:2017
Oil & Cream E	Enterobacteria and Certain Other Gram-Negative Bacteria	BP 2019, Appendix XV! B
Package Drinking Water	Arsenic as As	None
Pharmaceutical Products:	Lead	BP 2019, Vol. V, Appendix VII & IID
	Total Microbial Aerobic Count	BP 2019, Appendix XV!
Pollutant In Air	Barium	None
Potable And Domestic	None	None
	Taste	APHA 2160 B, 24 th Edition
	Escherichia coli	None
Potable And Domestic E Reverse Osmosis Water E Ultrapure Water E Others E	Antimony as Sb Barium as Ba Beryllium as Be Boron as B Cadmium as Cd	None

Schedule

Issue date: 06 April 2025
Valid Until: -



NO: SAMM 822

Page: 11 of 18

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Potable And Domestic Reverse Osmosis Water Ultrapure Water Others	Chromium Trivalent	In-house Method PCL-CTV-01 Based On APHA 3120 B & 3500 Cr B
Potable And Domestic Water Industrial Water	None	(Pour Plate Technique) APHA 9215 D, Edition (2012) (Membrane Filtration Technique)
Powder E Capsule E Liquid E	Total Combined Yeast & Mould Count	BP 2019, Appendix XVI B
Products	None	968.28
	None	None
	None	None
	None	None
	Mercury	In-house Method SOP-0217-1018,
	None	UHPLC
	None	UHPLC
	Ash	In-house Method 0510 based on
	None	AOAC 964.21
	None	None
	None	Edition, 1978
	None	None
	None	None
	None	2:2009
	Bioburden Estimation	ISO 11737-1:2006
	Sterility Test	ISO 11737-2:2009
	Endotoxin in Medical Devices	USP 29' Edition (LAL Gel Clot
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	Bend Performance	Clause 7.2.4 e
	Lithium, Li Vanadium,V	001 with reference to USP 39 and USP 40
	None	nicotinic acid and nicotinamide in
	None	None
	phthalate, DIBP	None
	Dibutyl phthalate, DBP	006, with reference to ISO 8124-
	None	None
	None	None
	None	L03-007-Determination of Aflatoxin

Scan this QR Code or visit <https://accreditation.ism.gov.my/public/listing/cab/samm-ct/3004196> for the current scope of accreditation

NO: SAMM 822

Page: 12 of 18

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	None	G03-123(1)-Detection of Maize in
	None	G03-143(1)-Detection of Event-Specific
	None	G03-143(2)-Detection of Event-Specific
	None	G03-143(3)-Detection of Event-Specific
	None	G03-143(5)-Detection of Event-Specific
	None	G03-143(4)-Detection of Event-Specific
	NoneNone	None
	None	
	None	None
	Ultimate Tensile Strength e	(ref no: QA/METAL/05)
	None	None
	Monosodium Glutamate	F024 by HPLC Fluorescence
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	Aerobic Plate Count	None
	Total Coliform Count	FDA-BAM, Ed, Chap 4
	Fecal Coliform	None
	Salmonella spp.	FDA-BAM, Ed, Chap 5
	- Sulphate	BS 1377, 1990-Part 3 Section 5
	- pH Value	BS 1377, 1990-Part 3 Section 9
	- Loss on Ignition	BS 1377, 1990-Part 3 Section 4
	Average Grain Size Measurement	Method)
	- Rockwell Method	ASTM E18: 20
	Break Test (Filled Weld)	None
	Properties Measured /	Method/
	Total Plate Count	Plating
	Coliform	Determination of Coliform & E.coli
	Escherichia Coli	(Pour Plate Method) - AOAC
	Escherichia Coli	performance tested. Certificate no.
	Escherichia Coli	020902
	Coliform	AOAC 998.08. Edition,
	Escherichia Coli (Petrifilm)	2019/Petrifilm
	Staphylococcus Aureus (Petrifilm)	AOAC 2003.11. 21% Edition,
	Staphylococcus Aureus (Petrifilm)	2019/Petrifilm
	Salmonella (Petrifilm)	AOAC 2014.01. 21% Edition,
	Salmonella	2019/Petrifilm
	(Alpha Tocopherol, Alpha Tocotrienol,	FDA BAM Chapter 5. 2020;
		70, No. 12, December 1993/HPLC

Schedule

Issue date: 06 April 2025
Valid Until: -



NO: SAMM 822

Page: 13 of 18

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Beta Tocotrienol, Gamma Tocotrienol,	None
	Delta Tocotrienol)	None
	Phytosterols Content	EvTM_0008/HPLC
	(Sitosterol, Stigmasterol)	None
	Plant Squalene	EvTM_0007/HPLC
	Solvent Residue	EvTM_0005/GC Headspace
	(Hexane, Ethyl Acetate, Methanol,	None
	Isopropanol, Dichloromethane,	None
	Ethanol)	None
	Benzo A Pyrene	EvTM_0004, Based on AOCS Cd
	Benzo A Pyrene	21 - 91, 5 th Edition (2003)
	Moisture	AOCS Ca 2e - 84, Edition
	Moisture	(2003)
	Mixed Carotene	None
	Mixed Carotene	EvTM_0150/HPLC
	Solvent Residue	EvTM_0151/GC-HS
	(Hexane, Ethyl Acetate, Methanol,	None
	Isopropanol, Dichloromethane,	None
	Ethanol)	None
	Moisture	AOCS Ca 2e - 84, Edition
	Moisture	(2003)
	None	None
	2,6-Di-Tert-Butyl Hydroxytoluene	EvTM_0049/GC
	Tocotrienol, Beta Tocotrienol,	1993/HPLC
	Gamma Tocotrienol, Delta	None
	Tocotrienol)	None
	Benzo A Pyrene	EvTM_0114, Based on AOCS Cd
	Mixed Carotene	21-91, 5 th Edition (2003)
	Mixed Carotene	EvTM_0115/HPLC
	Mixed Carotene	EvTM_0116/UV-VIS
	Lycopene Content	EvTM_0118/UV-VIS
	Plant Squalene	EvTM_0124/HPLC
	Phytosterols Content (Sitosterol,	EvTM_0125/HPLC
	Stigmasterol)	
	Solvent Residue (Hexane, Ethyl	EvTM_0126/GC HS
	Acetate, Methanol,	
	Isopropanol, Dichloromethane,	None
	Ethanol)	None
	Moisture	AOCS Ca 2e - 84, Edition
	Moisture	(2003)
	Total Aerobic Microbial Count	XVI B
	Total Combined Yeasts/ Moulds	BP 2020/Volume
	Count	XVI B
	Coliform Count	FDA BAM Chapter 4, 2020
	Bile-Tolerant Gram-Negative	BP 2020/Volume
	Bacteria	XVI B

Schedule

Issue date: 06 April 2025
Valid Until: -



NO: SAMM 822

Page: 14 of 18

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Detection of Specific Microorganism	BP 2020/Volume
	Pseudomonas aeruginosa	IV/Appendix XVI B
	Staphylococcus aureus	None
	Escherichia coli	None
	Salmonella spp	None
	Total Aerobic Microbial Count	XVI B
	Total Combined Yeasts/ Moulds Count	BP 2020/Volume
	Coliform Count	XVI B
	Coliform Count	FDA BAM Chapter 4, 2020
	Bile-Tolerant Gram-Negative Bacteria	BP 2020/Volume
	Detection of Specific Microorganism	XVI B
	Pseudomonas aeruginosa	BP 2020/Volume
	Staphylococcus aureus	XVI B
	Escherichia coli	None
	Salmonella spp	None
	None	spp. by Real-Time PCR (qPCR) -" SYBR
	None	None
	None	in Soybean by real-Time PCR (qPCR)
	None	DNA (Universal Plant) by Real-Time
	Free Fatty Acids	Time
	Moisture and Volatile Matter Hot	None
	Plate Method	AOCS Ca 2b-38 (1997)
	Insoluble Impurities	None
	Iodine Value of Fats and Oils	AOCS Ca 3a-46 (1997)
	Cyclohexane-Acetic Acid	None
	Method	AOCS Cd 1d-92 (1997)
	Slip Melting Point	None
	AOCS Standard Open Tube	None
	Melting Point	AOCS Cc 3-25 (1997)
	Color	None
Products Vegetable And Vegetable Products	None	AOCS Cc (1997)
Reverse Osmosis Water	None	AOAC Official Method 2014.05 (3M Petrifilm)
	None	APHA 9221 B, Edition (2012)
	Free, Combined and Total Residual Chlorine (DPD)	None
	Total Alkalinity as CaCO ₃	In-House Method 0501 based on Palintest Comparator
	None	APHA 2320 B
	Copper Barium	None
	None	APHA 3125 B (ICP-MS), 24" Edition
	None	APHA 4500 OG
	None	APHA 9222

Schedule

Issue date: 06 April 2025
Valid Until: -



NO: SAMM 822

Page: 15 of 18

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Streptococcus Count	(Membrane Filtration Method)
Sauces, Spices And Sources	None	None
	None	None
	None	None
Stack Air Emission	VOC	In-House Method PCL-ENV-025
	Dark Smoke	BS 2742:2009
Sugar	None	based on AOAC 981.12 & 970.21
Surface Water	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
Swimming Pool Water Cooling Tower Water	Escherichia coli	APHA 9222 G, 22 nd Edition (2012) (Membrane Filtration Technique)
Tablet E	None	None
Tea, Coffee And Related	None	None
Teas And Tea Products	None	None
Ultrapure Water	Color PtCo	APHA 2120 C
	None	(MPN Technique)
Vegetables And Derived Products Sauce, Herbs, Spices And	Carbohydrate (Available)	FAO Food and Nutrition Paper 77, Chapter 2 (2003)
Vibration (ground & Structural)	Test Parameter: Peak Particle Velocity, ppv	Malaysia Guidelines Environmental Vibration Limits & Control (Third
Water	Total Organic Carbon	APHA 5310 C
	Heterotropic plate count	APHA 9215 B, 22 nd Edition (2012)
	None	(Membrane Filtration Technique)
	None	None
	Metals by ICP	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None

Scan this QR Code or visit <https://accreditation.ism.gov.my/public/listing/cab/samm-ct/3004196> for the current scope of accreditation

NO: SAMM 822

Page: 16 of 18

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	pH	ASTM D 1293-2005 (Method B) APHA 4500 H* B 2005/2017
	pH	ASTM D1293-2005 (Method B) APHA 4500 H* B 2005/2017
	None	None
	Turbidity	APHA 2130B
	On-site Sampling & Testing (pH Temperature, Turbidity)	In-house Method SOP-0222-2001 & SOP-0222-2003
	Coliform	APHA 9221 B, Edition, 2005
	Heterotrophic plate count in	APHA Method 9215 D, Edition,
	None	None
	None	None
	pH Value	BS 1377-3 : 2018 Clause 12
	pH Value	BS 1377-3 : 2018 Clause 12
	None	None
	Calcium Hardness as CaCO ₃ ,	APHA 3500-Ca B, 2017
	Magnesium (by Calculation Method)	APHA 3500-Mg B, 2017
	Nitrate	APHA E, 2017
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	Aluminium	None
	None	None
	Organochlorine Pesticide	APHA 6630 B, Edition
	Ammoniacal Nitrogen	APHA F, 24" Edition
	Arsenic	APHA 3125 B, Edition
	Mercury	In-house method, SGS-TM-ENVI-003, based on APHA 3125 B
	2,4-dichlorophenoxyacetic acid (2,4-D)	In-house method, SGS-TM-02-045, based on Agilent Application Note 5991-5731 EN (LCMSMS)
	Heavy Metals by ICP-MS	None
	Endotoxin	Test for Bacterial Endotoxin, BP 2022
	pH	APHA 4500 H*B
	Oil & Grease	APHA 5520 B
	Color	APHA 2120 B
	Color	APHA 2120 F

Schedule

Issue date: 06 April 2025
Valid Until: -



NO: SAMM 822

Page: 17 of 18

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	pH	APHA 4500 H* B
	Turbidity	APHA 2130 B
	Conductivity	APHA 2510 B
	None	None
	None	None
	None	None
	Escherichia coli and coliform	ISO 9308-1: 2014 (E) / Enumeration
	Pseudomonas aeruginosa	ISO 16266:2006 (E) / Detection and
	Ammonium nitrogen	BS 6068: Section 2.7:1984 ISO 5664:1984
	Chemical Oxygen Demand	BS 6068: Section 2.34:1988
	Suspended solids	BS 2690-Part 120:1981
	Dissolved solids	BS 2690-Part 121:1981
	None	ASTM D 523-82
	COD	APHA 5220 D
	None	None
	Free Chlorine	APHA' 4500 -" CI G
	Count	(Pour Plate, Spread Plate and
	Anaerobes (Clostridia)	BS 6068-4:9: 1993
	Gross Alpha & Gross Beta	None
	Arsenic as As	None
	Antimony as Sb	None
	Aluminium as Al	None
	Beryllium as Be	None
	Cadmium as Cd	None
	Chromium as Cr	None
	Lead as Pb	None
	Silver as Ag	None
	Selenium as Se	None
	Thallium as TI	None
	Mercury as Hg	In-house Method LWI-MWE 037 based on APHA 3112 B by
	Mercury as Hg	Mercury Analyser
	Nitrate	In-house Method LWI-MWE 032 based on HACH Nitrate
	Nitrate	Test Comparator
	Sulfide	HACH Method 8131
	Chlorine, Free Residual	In-house Method LWI-MWE
	Chlorine, Free Residual	034 based on DPD-Palintest
	Chlorine, Free Residual	Test Comparator
	Total Chlorine	In-house Method LWI-MWE
	Total Chlorine	035 based on DPD-Palintest
	Total Chlorine	Test Comparator
	Colour (ADMI)	APHA 2120 F
	Heterotrophic Plate Count	None

NO: SAMM 822

Page: 18 of 18

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Pseudomonas aeruginosa	In-house Method LWI-MME (APHA) 007
	Pseudomonas aeruginosa	based on APHA 9213 E, 2020
	Escherichia coli and Coliform	Escherichia coli and Coliform Bacteria. Part 1: Membrane filtration
	Escherichia coli and Coliform	method
	Escherichia coli and Coliform	Method No: MOH (1)
	Escherichia coli and Coliform	ISO 29981 : 2010 (E), IDF 220 :
	Escherichia coli and Coliform	2010 (E) Milk Products -
	None	None
	None	None
	None	None
Water Surface Water	Turbidity	APHA 2130 B
Water:	Temperature	APHA 2550 B
	MLSS, MLVSS	In-house Method Based on APHA
	pH	APHA 4500 H+ B

SCOPE OF TESTING : MECHANICAL

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
---------------------------	---	--

SCOPE OF TESTING : MICROBIOLOGY

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
---------------------------	---	--