


Schedule

Issue date: 18 March 2025
Valid Until: -



NO: SAMM 074

Page: 1 of 30

LABORATORY LOCATION/ CENTRAL OFFICE:	Chemical Laboratory (M) Sdn Bhd, PJ 81 -85 (2nd& 3rd Floor) Jalan SS 25/2, Taman Bukit Emas 47301 Petaling Jaya, Selangor , 47301, SELANGOR MALAYSIA
	
ACCREDITED SINCE :	18 MARCH 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:	Chemical Laboratory (M) Sdn Bhd, PJ 81 -85 (2nd& 3rd Floor) Jalan SS 25/2, Taman Bukit Emas 47301 Petaling Jaya, Selangor , 47301, 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
Alcoholic Beverages Dairy Products	Determination of Iron	AOAC 999.11
	None	(Detection & MPN Technique)
Baked Product	Determination of Ash	AOAC 935.39 (B)
	Determination of Fat Content	AOAC 935.39 (D)
	Determination of Total Solids & Moisture	AOAC 935.39 (A)
Capsule	Count (TAMC)	None
	Disintegration Test	BP 2021, App. XII A, 1, (Test A)
	Uniformity of Weight	In-house Method SOP-0217-3004
	Betamethasone 17-valerate	by UHPLC
Cheese	Determination of Ash	AOAC 935.42
	Total Fat	JKM F 6013

Schedule

Issue date: 18 March 2025
Valid Until: -



NO: SAMM 074

Page: 2 of 30

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Total Plate Count	In-house method LWM 3 based on
	None	based on AOAC Method 960.29, 18"
	Aflatoxin M1	In-House Method Ref. No. MOH
	Benzoic acid and sorbic acid	E03-002 The Determination of Benzoic Acid and Sorbic Acid in
	Benzoic acid and sorbic acid	Food using Liquid Chromatography
Cocoa Product	Determination of Fat	AOAC 963.15
	Determination of Nitrogen (Total)	AOAC 970.22
Cosmetic And Traditional	Heavy metals	None
Dietary Supplements	None	In house method
Disinfectant Liquid Multipurpose Cleaner Antiseptic Cleaner / Liquid Hand Sanitizer	Candida albicans ATCC 10231 Aspergillus brasiliensis ATCC 16404	EN 1650.2019
Drinks	Determination of Sodium Benzoate (as Benzoic Acid)	STP/FD/006/V1, In-House Method by High Performance Liquid Chromatography
	Determination of Sorbic Acid	STP/FD/006/V1, In-House Method by High Performance Liquid Chromatography
	None	None
	Ethanol content	In-house Method [TM-008] based on papers in Journal of Chromatographic Science, vol. 47, pg. 272-278 (2009) and Amer. J.
	Sodium Saccharin	In-House Method SOP-0217-1022
Edible Oils, Fats And Their	Determination of Zinc	None
	None	None
	None	None
	None	None
	Acid Value	AOCS Cd 3d-63
	Iodine Value	AOCS Cd 1b-87
	None	None
Egg & Egg Products	None	None
	Boric Acid	AOAC 970.34
	(AOZ, AMOZ, SEM, AHD)	None
	Chromium e	None
	None	None
	None	None
Essential Nutrients, Including Vitamins Fish And Fish Products Flour And Confectionery Food Additives And Supplements Honey And Honey Products	Determination of Arsenic	In-House Method based on AOAC 999.11 (2000) 17% edition
	Determination of Antimony	In-House Method STP/FD/060/V1 based on AOAC 999.11 (2000) 17th edition
Evaporated Milk (unsweetened)	Determination of Ash	AOAC 945.48E
Feed And Pet Food	Protein (Crude)	AOAC 988.05

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Schedule

Issue date: 18 March 2025
Valid Until: -



NO: SAMM 074

Page: 3 of 30

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Fish	Determination of Lead	AOAC 972.33
	Formaldehyde	n-house Method 0536 based on AOAC 964.21
	None	None
	Histamine	n-house Method QWI-OF/17-132
	Microplastics	n-house Method QWI-OG/17-071
	Spring Viraemia of Carp Virus	In-house Method QWI-NA/17-014
	Putrescine	In-House Method MOH NO3-007: The
	Salmonid Alphavirus (SAV)	In-house Method, NA/FD/025, Using Real-time PCR
	Koi Herpes Virus (KHV)	LIRL/LWI 10: Nested PCR based on
	Tilapia Lake Virus (TiLV)	041: Real-time PCR based
	None	None
	Analysis of polyaromatic	In-house method, LTM 10
	Polychlorinated Dibenzo-p-Formaldehyde	EPA 8290 -" High Resolution Gas
	Mercury	In-house Method, Ref. No. MOH:
	Sulphite (Calculated as Sulphur	In-house Method, Ref. No. MOH
Fish & Fish Products	None	None
	Thiamphenicol	None
	Nitrofurans Metabolites	GB/T 21311-2007 (LC-MS/MS)
	Tetracycline	In-house Method, CL/FD/012, based
	T-2 Toxin, Zearalenone	None
	Zinc e	None
	None	None
	Nitroimidazole (3 analyte)	In-House Method, Ref No. MOH
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
Leucomalachite green	In-house method, Ref. No. MOH:	
2-amino ?albendazole	In-house Method, Ref. No. MOH:	
Flour	Determination of Ash	AOAC 923.03
	Determination of Fat Content	AOAC 922.06
	Determination of Total Solids and Moisture	AOAC 925.10
	Determination of Protein (Total)	AOAC 920.87
	None	Chromatography Method
	Benzoyl Peroxide	In-house Method MOH E03-024
	Benzoyl peroxide	on Journal of Chromatography A,

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Schedule

Issue date: 18 March 2025
Valid Until: -



NO: SAMM 074

Page: 4 of 30

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Formaldehyde	931.08. 17 Ed. Vol. II. Chapter 47 and Laboratory Manual on Analytical
	Benzoyl peroxide	In-house Method, Ref. No. MOH
	Potassium, Iron, Sodium, pH	Analysis Manual, 2015, ICP-MS AOAC? 945.42, AOAC? 943.02, AOAC?
	Total Plate Count	In-house method LWM 3 based on
	Calcium Propionate	In-House Method SOP-0217-1024
	Ash	AOAC 923.03
	None	None
	Benzoyl Peroxide	In-house method, Ref. No. MOH:
	Nitrogen / Protein	AOCS Bc 4-91
	Benzoyl Peroxide	MOH E03-024: The Determination of
Flour & Confectionary	None	None
	None	None
Food	Determination of Copper	None
	Mercury	on AOAC official method 971.21 and APHA 3120
	Aerobic Plate Count / Total Plate Count (Spread Plate and Pour Plate Method)	FDA-BAM Chapter 3
	Total Acidity	In house JKM F0935
	Determination of Contamination	JKM B0405
	Total Acidity	In house JKM F0935
	Determination of Contamination	JKM B0405
	Coliform and Escherichia coli	JKM M 3053* based on AOAC 17%"
	None	None
	Nett Weight	n-house Method, JKM F 0944, based on
	None	CODEX STAN 94-1981, Section 7.4,
	Net Weight	JKM F 0944
	Aerobic Plate Counts	JKM-M 3012
	None	None
	GMO Screening	In-house Method QWI-NA/17-002
	None	None
	virus 1	based on RT-qPCR Method
	3-Monochloro propanediol,	In-house method based onBfr.
	None	None
	None	and Sorbic Acid in Food by Direct
	Aerobic Plate Count	JKM 3010, FDA Bacteriological
	Escherichia coli	ISO 7251:2005(E) Horizontal method
	Energy (by calculation)	In-house Method No:
	None	None

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Schedule

Issue date: 18 March 2025
Valid Until: -



NO: SAMM 074

Page: 5 of 30

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	None	None
	None	None
	Detection of Salmonella sp.	SO 6579:2002 (E)
	Detection of E. coli 0157	SO 16654:2001 (E)
	Enumeration of Coagulase Positive	SO 6888-1:1999 Amd.1:2003
	cholerae and Vibrio vulnificus	None
	Horizontal Method for the	None
	Benzoic acid Sorbic acid	E03-002, Based on JAOAC Vol. 70, No. 5, 892-896
	Water Soluble Synthetic Food Colour	In-House Method, Ref. No. MOH E03-003, Based on JAOAC (1975). Official Method of Analysis. 12"
	Methyl paraben Ethyl paraben Propyl paraben Butyl paraben	In-House Method, Ref. No. MOH E03-019. Based on Food Chemistry 82. (2003). 469
	Saccharin and Cyclamate	on JAOAC, vol 71, no 5, 1988, p 934
	Listeria monocytogenes	Method No.: MOH K03-113(1)
	Benzoic Acid and Sorbic Acid	In-house Method No.: MOH E03-002,
	Aerobic Count	AOAC Official Method 990.12 Aerobic Count Plates In Foods
	i) E.coli Count ii) Coliform Count	AOAC Official Method 991.14 Coliform And Escherichia coli Count In Foods
	None	AOAC Official Method 2003.07
	None	Microbiology of Food and Animal
	Listeria monocytogenes	MOH
	Listeria monocytogenes and Listeria spp.	ISO 11290-1:2017 (E) Microbiology of the food chain - Horizontal method for the detection and
	Water Soluble Synthetic Food	In-House Method MOH E03-003 : The
	Total Coliform Count	AS 5013.9 (2009)
	Standard Plate Count	AS 5013.1 (2004)
	Aerobic Plate Count	FDA, Chapter 3, Jan 01
	Total E.Coli Count	AS 5013.9 (2009)
	Total Yeast & Mould Count	AS 5013.29 (2009)
	None	Application Notes, LC-MS/MS
	None	Application Notes, LC-MS/MS
	Staphylococcus aureus count (coagulase positive)	FDA Chapter 12 (Detection and Enumeration)
	Yeast Count	AOAC 997.02 (Petrifilm)
	Peroxide Value	In House Test Method, TM 006,
	None	None

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Schedule

Issue date: 18 March 2025
Valid Until: -



NO: SAMM 074

Page: 6 of 30

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	None	None
	Ash	AOAC 945.46
	Carbohydrate	In-house method TM-FD-006:
	Calories (by calculation)	In-house method TM-FD-009 based
	None	None
	Bacterial identification up to species level (Refer to Appendix A(i) & A(ii))	BD BBL Crystal Identification Gram Positive ID Kit & Gram Negative ID Kit (Enteric / Non Fermenter ID Kit) LWI
	Synthetic Colouring	In-house Method, CL/FD/017, based
	Water Activity	In-house Method, CL/FD/017 based on Decagon Paw Kit Water Activity Meter Manual
	Crustacean	n-house Method NA/FD/016 using Real-Time PCR
	Moisture	n-house Method
	Leaching procedure for:	None
	None	None
	Trace Metal Analysis	None
	Salmonella Detection	FDA BAM Chapter 5
	None	None
	Campylobacter jejuni and C. coli	In-house method Detection of
	1) Ash Content in Food Products	In House Method
	Fat (Total, Saturated &	In-house method
	Aerobic Plate Count	FDA -" BAM Chapter 3, 2001
	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
	None	None
	Protein	In-house Method: CA/R/007, Based on
	Total Dietary Fiber	In-house Method WI/JC-LAB/029
	Enumeration of	None
	Aerobic Plate Count	FDA BAM Chapter 3, 2001
	Staphylococcus aureus	AOAC Official Methods of Analysis
	None	None
	Antimony	In House Method TM/F-001 refer to
	None	None
	Alcohol (ethanol)	In-house Method No: JAKIM /

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Schedule

Issue date: 18 March 2025
Valid Until: -



NO: SAMM 074

Page: 7 of 30

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Alcohol (ethanol)	In-house Method No: JAKIM /
	Salmonella spp.	AOAC OMA 2016.01 (3M-,¢ Molecular
	None	Based on Porcine Trace ® Rapid
	None	None
	None	None
	None	None
	Determination of Cholesterol in	JKM F 1208: In-house based on
	Total Acidity in Food by Titration	JKM F 0935 In-house Method based
	Determination of Melamine in	JKM F 1302 In-house Method based
	Determination of Total Arsenic in	JKM F 0509 In-house Method based
	Net Weight	JKM F 0944 In-house Method based
	Determination of Vitamin C	In-house method JKM F 1211 based
	Determination of Vitamin A	In-house method JKM F 1212 based
	Determination of Water Activity	JKM M 3082
	Yeast and Mould	JKM M 3084 -" Enumeration of Yeast
	Detection and Enumeration of Coliform Counts (Petrifilm)	JKM B 0201 JKM M 3053 AOAC, 21* Edition, 2019 (991.14) -"
	Detection of Cronobacter	JKM M 3083
	Extraction of Food Samples	JKM B 0105 DNA Extraction and
	Sequencing of mitochondrial	JKM B 0310 Speciation of animal
	Foreign Matter and Extraneous	JKM B 0405 Determination of
	Identification of Insects/Foreign	JKM B 0404. Determination of
	Identification of Foreign Matter in	JKM B 0402. Identification of Rodent
	Determination of the Origin of	JKM B 0403. Determination of Origin
	None	None
	None	None
	None	None
	None	None
	None	None
	None	In-house method, WI-TEC-M001,
	None	None
	None	In-house method, WI-TEC-M014,
	None	None
	None	None
	Pesticides	None
	None	None
	None	None

Scan this QR Code or visit <https://accreditation.ism.gov.my/public/listing/cab/samm-ct/3003550> for the current scope of accreditation

Schedule

Issue date: 18 March 2025
Valid Until: -



NO: SAMM 074

Page: 8 of 30

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	None	None
	None	AOAC 990.12,19" Edition 2012
	None	In-house method, WI-TEC-M015M,
	Fat	In-house Method SOP-0217-1008
	Total Sugar (Titration)	AOAC 968.28, Edition, 2005
	Vitamin C	In-house Method SOP-0217-1015 by
	Energy as Calories	In-house Method SOP-0217-1032
	Shigella	FDA/BAM Chapter 6, Feb 2013
	None	None
	None	None
	Tin (Sn)	In-house Method C/FOD/029
	None	None
	Ascorbic Acid (Vitamin C)	In-house Method C/FOD/003
	None	None
	None	None
	None	None
	Staphylococcus aureus -" Most Probable Number	AOAC 987.09
	Enumeration of Mesophilic Lactic Acid	ISO 15214: 1998
	None	None
	Detection & Enumeration of Coliform	AS 5013.3 - 2022
	Enumeration of Coliform	FDA-BAM Chapter 4 (I.G)
	Detection & Enumeration of Escherichia coli	AS 5013.15 -" 2006
	Enumeration of Escherichia coli	FDA-BAM Chapter 4 (I.G)
	Detection of Salmonella spp.	AS 5013.10 - 2009
	Enumeration of Yeast and Molds	FDA -" BAM Chapter: 18
	Detection of Listeria monocytogenes	In-house Method M/FOD/010 based on FDA -" BAM Chapter 10:2011
	Enumeration of Bacillus cereus	In-house Method M/FOD/011 based on FDA -" BAM Chapter 14:2012
	Enumeration of Fecal Coliform	CMME of Foods - Chapter 8.8
	Clostridium perfringens Count	ISO 7937:2004
	Tin	None
	Sugar Profile:	In-house method SGS-TM-FOOD-104
	Folic acid	In-house method SGS-TM-FOOD-106

Scan this QR Code or visit <https://accreditation.ism.gov.my/public/listing/cab/samm-ct/3003550> for the current scope of accreditation

Schedule

Issue date: 18 March 2025
Valid Until: -



NO: SAMM 074

Page: 9 of 30

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Metals Contaminants Arsenic, As Lead, Pb 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
	Total Sugars	In-house method, SGS-TM-FOOD-
	Water activity	In-house method, SGS-TM-FOOD-
	None	None
	Vitamin A	In-house method SGS-TM-FOOD-050 based on Bull. Dept. Med Sci, Vol 37, No. 1 Jan -" March 1995,
	Total Aerobic Count	AOAC 989.10: 2005 & AOAC
	Listeria monocytogenes	In-house method, SGS-TM-MICR-
	None	None
	Porcine DNA	In-house method, SGS-TM-BIOT-
	Total Plate Count	AS 1766.2.1-1991
	Listeria monocytogenes	ISO 11290-1:2017 (E) / Detection
	Salmonella spp.	ISO 6579:2017 (E) / Detection
	Bacillus cereus	ISO 7932:2004 (E) / Enumeration
	Bacillus cereus	ISO 21871:2006 (E) / Detection and
	Vibrio parahaemolyticus	ISO/TS 21872-1:2017(E) / Detection
	Escherichia coli	ISO 7251:2005 (E) / Detection and
	E. Coli 0157	ISO 16654:2001(E) / Detection
	Yeast and Mould Count	In-house method Ref. No. MOH:
	Aerobic Plate Count	In-house method based on AOAC
	Coliform	ISO 4831:2006 (E) / Detection and
	Mesophilic Lactic Acid Bacteria	ISO 15214:1998 (E) / Enumeration
	DNA Extraction	In-house Method, Ref. No. MOH
	Benzoic acid	In-house Method, Ref. No. MOH:
	Saccharin	In-house Method, Ref. No. MOH:
	Sulphur Dioxide	In-House Method, Ref. No. MOH:
	Boric acid	In- House Method, Ref. No. MOH:
	Formaldehyde	In-house Method, Ref. No. MOH:
	Egg Allergen ? Qualitative	In-house Method, Ref. No. MOH:
	Peanut Allergen ? Qualitative	In-house Method, Ref. No. MOH:
	Milk Allergen- Qualitative	In-house Method, Ref. No. MOH:
	Gliadin Allergen ? Qualitative	In-house Method, Ref. No. MOH:
	Soy Allergen- Qualitative	In-House Method Ref. No. MOH
	Crude Fibre	AOCS Ba 6-84
	None	Microbiology of food and animal
	None	feeding stuffs- Horizontal method for
	Listeria monocytogenes	the detection and enumeration of
	Listeria monocytogenes	Listeria monocytogenes- Part 1:

Scan this QR Code or visit <https://accreditation.ism.gov.my/public/listing/cab/samm-ct/3003550> for the current scope of accreditation

Schedule

Issue date: 18 March 2025
Valid Until: -



NO: SAMM 074

Page: 10 of 30

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Listeria monocytogenes	Detection Method
	Listeria monocytogenes	Method No: MOH
	Listeria monocytogenes	AOAC Official Method 991.14 3M-,,ç
	Escherichia coli / Coliform	Petrifilm-,,ç E.coli / coliform count Plates
	Escherichia coli / Coliform	Method No: MOH K03-203
	Escherichia coli / Coliform	AOAC Official Method 990.12 3M-,,ç
	Aerobic Count Plates	Petrifilm-,,ç Aerobic Count Plates
	Aerobic Count Plates	Method No: MOH
	Aerobic Count Plates	AOAC Official Method 2003.07
	Staphylococcus aureus	2003.08, 2003.11 3M-,,ç Staph Express Count Plate
	Staphylococcus aureus	Method No: MOH K03-205
	Staphylococcus aureus	AS/NZS 1766.2.9:1997 Examination
	Staphylococcus aureus	for specific organisms- Vibrio
	Vibrio parahaemolyticus	parahaemolyticus of Australian
	Vibrio parahaemolyticus	Standard
	Vibrio parahaemolyticus	Method No: MOH K03-310
	Vibrio parahaemolyticus	ISO 7932, Third Edition 2004-06-16
	Vibrio parahaemolyticus	Microbiology of food and animal
	Vibrio parahaemolyticus	feeding stuffs -" Horizontal method
	Bacillus cereus	for the enumeration of presumptive
	Bacillus cereus	Bacillus cereus -" Colony- count
	Bacillus cereus	technique at 30°C
	Bacillus cereus	Method No: MOH (1)
	Bacillus cereus	ISO/TS 22964:2006 (E)
	Enterobacter sakazakii	IDF/RM 210:2006 (E) -" Detection of Enterobacter sakazakii
	Enterobacter sakazakii	Method No: MOH K03-115
	Enterobacter sakazakii	ISO 16654:2001 (E) -" Horizontal
	E. coli 0157	method for the detection of Escherichia coli 0157
	E. coli 0157	Method No: MOH
	Coagulase positive staphylococci	ISO 6888-1:1999/Amd.1:2003 (E)
	Coagulase positive staphylococci	Method No: MOH K03-105 (1)
	Vibrio Species other than cholerae	other than Vibrio parahaemolyticus
	Vibrio Species other than cholerae	and Vibrio cholera
	Vibrio Species other than cholerae	Method No: MOH K03-111 (2)
	Vibrio Species other than cholerae	ISO 10272 -" 1: 2006 (E)
	Vibrio Species other than cholerae	Horizontal
	Vibrio Species other than cholerae	Method for Detection and
	Camphylobacter spp	Enumeration of Camphylobacter spp. -" Part 1: Detection Method

Scan this QR Code or visit <https://accreditation.ism.gov.my/public/listing/cab/samm-ct/3003550> for the current scope of accreditation

Schedule

Issue date: 18 March 2025
Valid Until: -



NO: SAMM 074

Page: 11 of 30

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Camphylobacter spp	Method No: MOH (1)
	Camphylobacter spp	ISO 11290-2: 1998 / Amd. 1:2004 (E)
	Camphylobacter spp	Horizontal Method for Detection and
	Camphylobacter spp	Enumeration of Listeria
	Listeria monocytogenes	Monocytogenes Part 2 = Enumeration Method, Amendment 1 :
	Listeria monocytogenes	Modification of enumeration Medium
	Listeria monocytogenes	Method No: MOH (1)
	Boric Acid	E03-003 The Determination of
	Water soluble synthetic food	Water Soluble Synthetic Food
	colour (see Appendix I)	Colour in Food by Paper
	colour (see Appendix I)	Chromatography and UV/ V15
	colour (see Appendix I)	spectrophotometer
	colour (see Appendix I)	In -" House Method, Ref. No. MOH
	Total Plate Count (TPC)	FDA Food and Drug =
	Determination of Boric acid in Food	FQL-TM-FA205 In-House Method
	by UV-Vis Spectrophotometer	based International Food on
	by UV-Vis Spectrophotometer	Research Journal 17: 1107-1112
	by UV-Vis Spectrophotometer	(2010)
	Total Plate Count in Food by	AOAC Official Method 990.12
	using 3M Petrifilm Aerobic Count	None
	Plate	None
	Enumeration of Escherichia Coli	AOAC Official Method 991.14
	in Food by using 3M Petrifilm	None
	Escherichia Coli/Coliform Count	None
	Plates	None
	Enumeration of Coliform in Food	AOAC Official Method 991.14
	by using 3M Petrifilm Escherichia	None
	Coli/Coliform Count Plates	None
	Enumeration of Staphylococcus	AOAC Official Method 2003.07
	Aureus in Food by using 3M	None
	Petrifilm Staph Express Count	None
	Plates	None
	Detection of Bacillus Cereus in	Compact Dry -œNissui-• Bacillus
	Food	Cereus
	Detection of Salmonella in Food	Bacteriological Analytical Manual,
	Detection of Salmonella in Food	Chapter 5, Salmonella
	Detection of Salmonella in Food	AOAC Official Method of Analysis
	by using 3M Petrifilm Salmonella	2014.1
	Express System	None
	Salmonella spp.	ISO 6579-1:2017

Scan this QR Code or visit <https://accreditation.ism.gov.my/public/listing/cab/samm-ct/3003550> for the current scope of accreditation

Schedule

Issue date: 18 March 2025
Valid Until: -



NO: SAMM 074

Page: 12 of 30

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Analysis of Organophosphorus Method: AOAC 2007.01	Analysis of Organophosphorus
	Analysis of Organophosphorus	
	Total Plate Count (TPC)	FDA Food and Drug =
	Aerobic Plate Count	AOAC Official Method 990.12 Aerobic
	Bacillus cereus	ISO 7932:2004 (E) Microbiology of Food
	Yeast and Mold	AOAC Official Method 2014.05
	Enumeration of	MOH Based on AOAC
	Enumeration of Mesophilic	MOH MMEF Part 4 Section
	Campylobacter spp	MOH (1): ISO 10272-
	Gram Negative Pathogens	In-house Method, Ref. No. MOH RO3-
	Boric Acid	In-house Method, Ref. No. MOH
	Water Soluble Colours	In-house Method, Ref. No. MOH
	Moisture	In-house Method Ref. No. MOH J03-
	Ash	MOH Determination Of Ash
	1) Antimoni	MOH The Determination of
	Water Activity	In-House Method MOH J03-049:
	Soluble Solid	In-House Method MOH J03-018:
Mercury	In-House Method MOH H03-015:	
Acrylamide	In-House Method MOH NO3-015:	
Herbal Products	Lead e	In house method STP/MS/038/VI
	Heavy metals	None
	Ginseng	JKM K 0615
Infant Foods Meat, Poultry And Derived . Products Non-alcoholic Beverages Nuts, Fruits And Vegetables And Derived Products Pet Foods Residues In Foodstuffs Sauces, Herbs, Spices And Condiments Sugars And Sugar	Determination of Cadmium	In-House Method STP/FD/040/V1 based on AOAC 999.11 (2000) 17th edition
	Determination of Lead	In-House Method STP/FD/025/V1 based on AOAC 999.11 (2000) 17th edition
	Determination of Total Dietary Fiber	AOAC 985.29
Milk	Determination of Ash	AOAC 945.46
	Determination of Acidity in milk	JKM F 0918 (In-house Method)/
	Acidity	In-house Method, JKM F 0918, based
	None	based on RT-qPCR Method
	Coagulase-positive	ISO 6888-3:2003
	None	925.10
	Ash	AOAC Official Method 945.46
	Total Nitrogen & Protein	AOAC Official Method 991.20
	Fat	AOAC Official Method 989.05
Carbohydrate	In-House Method TOM (F) -" 001F by	

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Schedule

Issue date: 18 March 2025
Valid Until: -



NO: SAMM 074

Page: 13 of 30

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Aflatoxin M1	In-House Method MOH L03-007 :
	None	925.23A, and Pearson's Chemical
	Fat	AOAC 989.05 (Modified Mojonnier
	None	None
	None	based on Romer-™s Elisa Method
	MC-Media Pad	based on AOAC 997.02
	Fat	AOAC 989.05
	Acidity	AOAC 947.05
	None	None
	Brucella spp.	In-house Method, Ref. No. MOH: K03-
Nuts And Nuts Products	Determination of Ash	Method 1, AOAC 950.49
	Determination of Protein	AOAC 950.48
	None	None
Nuts, Fruits & Vegetables & Derived Product	Colony Count Method of Enterobacteriaceae in Foods and Bird-™s Nest Sample	BS ISO 21528-2:2004
Oyster Sauce	Determination of Sodium Benzoate (as Benzoic Acid)	STP/FD/007/V1, In-House Method by High Performance Liquid Chromatography
	None	STP/FD/007/V1, In-House Method
	% Total solids	JKM MDS 580:2004 (In-house
	None	based on AOAC 935.47
	3-MCPD	In-house Method QWI-OF/17-079 based on Romer-™s Lateral Flow
Pharmaceutical Products	Detection of Bile-Tolerent	None
	Uniformity of Weight	Procedure 5.2 Uniformity of Mass
	None	None
	Ascorbic Acid (Vitamin C)	In-House Method TOM F021 based
	Total Plate Count	BP 2004
	None	None
	Anti-Salmonella Activity by 96-	In-house method 21BAMC-B046
	Nystatin Assay	In-house method,
	Amoxicillin Assay	In-house method 41HPLC-C093
	Nystatin Assay	In-house method, 41HPLC-C001,
	Amoxicillin Assay	In-house method 41HPLC-C093
	None	Rapid Yeast & Mold Count Plate
	Anti-Salmonella Activity by 96-	In-house method 21BAMC-B046
	None	onAOAC Official Method 999.10
	Assay of active ingredient:	None
	None	None
	Assay of active ingredient:	None
	None	None
	None	None
	Mercury	BP 2013, Vol. V, Appendix VII & IID
Cd, Pb, As and Hg	In-house method	

Scan this QR Code or visit <https://accreditation.ism.gov.my/public/listing/ceb/samm-ct/3003550> for the current scope of accreditation

Schedule

Issue date: 18 March 2025
Valid Until: -



NO: SAMM 074

Page: 14 of 30

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Total Aerobic Microbial Count	USP 40 (61):2017
	Pseudomonas aeruginosa	USP 40 (62):2017
	None	None
	Bacteria	None
	Mercury	BP 2019, Vol. V Appendix VII & IID
	None	None
	None	None
	Cadmium, Lead	US EPA 6010D (Determination)
	None	None
	Arsenic	In-house Method SOP-0217-1017,
Plant And Plant Products	Calcium	AOAC 975.03
	Copper	AOAC 975.03
	Iron	AOAC 975.03
	Magnesium	AOAC 975.03
	Manganese	AOAC 975.03
	Potassium	AOAC 975.03
	Zinc	AOAC 975.03
Powder E Capsule E Soft Gel E	Lead e Cadmium e Arsenic e	BP 2019, Volume V, Appendix VII V-A302, V-A303 by ICP- OES
Products Eggs And Egg Product	Determination of Tin	AOAC 985.16
Products Tobacco And By-Products Other Specified Foods	Determination of Sulfur Dioxide	In-House Method based on The Chemical Analysis of Food, David Pearson, 7 th Edition (1976)
Sauces	Determination of Sodium Benzoate (as Benzoic Acid)	STP/FD/045/V1, In-House Method by High Performance Liquid Chromatography
	None	STP/FD/045/V1, In-House Method
	Total Dissolved Solids	Composition and Analysis of Foods
	None	High Performance Liquid
	Salt Content	In-house Method, JKM F 0920, based on
	None	None
	Howard Mold Counting	AOAC Edition 2019, 16.19.02
	None	None
	None	(Method C) based on AOAC 999.11,
	None	Food 9 th Ed. (1991) pg.14
	None	Pearson- TM s (1991)
	None	using HPAEC
	None	None
	None	on Agilent Application Note 5989-22855:2008)/HPLC
	Total Nitrogen	MS 1120.1988
	Acidity	MS 1120: 2004
	None	None
None	None	

Scan this QR Code or visit <https://accreditation.ism.gov.my/public/listing/cab/samm-ct/3003550> for the current scope of accreditation

Schedule

Issue date: 18 March 2025
Valid Until: -



NO: SAMM 074

Page: 15 of 30

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Salt (as Sodium Chloride)	MS 1120:2004
	None	Based on GB 5009.4-2016
	Total Plate Count	In-house method LWM 3 based on AOAC 966.23 (2007)
	Acidity	MS1120:2004
	None	None
Soya Sauces	Determination of pH Determination of Nitrogen (Total) Determination of Salt (as Sodium Chloride)	MS 807:1983
Sugars And Syrup	Determination of Invert Sugars	AOAC 923.09
Toothpaste	Fluoride	Industrial Research Vol.64, February 2005:101-107, HACH
	Total Fluoride	In-house Method C/PHA/024 based on ISO 11609: 2010 Annex C.2.2
Water	Detection and Enumeration of	None
	None	None
	None	None
	LNAPL Thickness	In-house Method 6045 based on
	None	APHA 3120 B, 2005 & 2017
	Boron (as B)	APHA 3120 B, 2005 & 2017
	Conductivity	APHA 2510 B, 2005 & 2017
	Total Solids	APHA 2540 B, 2005 & 2017
	Salinity (ppt)	APHA 2520 B, 2005 & 2017
	None	based on APHA 4500-NH3 B&C,
	None	None
	None	None
	Oil and Grease	APHA 5520 C, 2017
	Phenolic Compound in Water for:	None
	Organochlorine Pesticides in Water for:	None
	(PAHs):	None
	None	None
	Volatile Organic Compounds:	USEPA 5021A
	None	None
	None	None
	Heterotrophic Plate Count	APHA 9215 D, 2005 & 2017 (MF
	None	APHA 3120 B, 2005 & 2017
	Boron (as B)	APHA 3120 B, 2005 & 2017
	Conductivity	APHA 2510 B, 2005 & 2017
	Total Solids	APHA 2540 B, 2005 & 2017
	Salinity (ppt)	APHA 2520 B, 2005 & 2017
	None	based on APHA 4500-NH3 B&C,
	None	None
	None	None
	Oil and Grease	APHA 5520 C, 2017
	Phenolic Compound in Water for:	None

Scan this QR Code or visit <https://accreditation.ism.gov.my/public/listing/cab/samm-ct/3003550> for the current scope of accreditation

Schedule

Issue date: 18 March 2025
Valid Until: -



NO: SAMM 074

Page: 16 of 30

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Organochlorine Pesticides in Water for:	None
	(PAHs):	None
	None	None
	Volatile Organic Compounds:	USEPA 5021A
	None	None
	None	None
	Heterotrophic Plate Count	APHA 9215 D, 2005 & 2017 (MF
	pH	APHA 4500-H* B
	Total Plate Count	APHA 9215 B
	Demand in Portable and Drinking	None
	Detection and enumeration of	JKM M 2034, based on ISO 9308-
	Demand in Portable and Drinking	None
	Detection and enumeration of	JKM M 2034, based on ISO 9308-
	Determination of Volatile	JKM W 0404 (In-house Method)
	Total Dissolved Solids as Sodium	In-house Method, AIR 008, based on
	None	None
	None	None
	None	None
	Coliform Bacteria and Escherichia	based on APHA 9222 B, 21 Edition
	Detection and enumeration of	JKM M 2036, based on Part 2:
	None	Edition (2017)
	Coliform bacteria and	JKM M 2032 based on APHA 9222 B
	None	None
	None	None
	None	None
	None	EDTA Titrimetric Method
	Metals	None
	Bromide, Chloride, Fluoride,	APHA 4110 B
	Refer to Appendix 10	None
	Metals	APHA 3125 B
	None	None
	None	None
	Mercury (Hg)	In-house Method QWI-CH/17-093
	None	None
	2,4, 6-T DP	None
	Chlorophyll	APHA 10200 H
	None	None
	None	None
	Diuron, Metolachlor, Temephos	In-house Method QWI-OG/17-059
	None	None
	None	None
	Lead	Japanese Industrial Standard
	Ether Oxygenates (MTBE, TBA,	In-house Method QWI-OG/17-027
	Ethylenediamine tetraacetic acid	In-house Method QWI-OG/17-073

Scan this QR Code or visit <https://accreditation.ism.gov.my/public/listing/cab/samm-ct/3003550> for the current scope of accreditation

Schedule

Issue date: 18 March 2025
Valid Until: -



NO: SAMM 074

Page: 17 of 30

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	TPH Speciation -" Aliphatic	In-house Method QWI-OG/17-028
	None	(LC-MSMS)
	Tetracycline, Doxycycline,	In-house Method QWI-OF/17-099
	Nucleic acid of Decapod iridescent	n-house Method QWI-NA/17-030
	Nucleic acid of adenovirus	In-house Method QWI-NA/17-035
	None	None
	None	None
	None	None
	None	None
	None	None
	pH value Chloride	APHA 4500-H+, 21st Edition APHA 4500-Cl-, 21st Edition
	Nickel	None
	Strontium	None
	Fluoride	None
	None	None
	Metals	None
	None	None
	None	None
	None	None
	COD	JKM E 0019 based on APHA 5220 Open
	Calcium/Calcium Hardness	JKM E 0015 based on APHA 3500 -"
	Chemical Oxygen Demand	JKM W 0401 based on HACH Method
	Coliform (MPN/100 ml)	ISO 9308 -" 2 (2012)
	E. coli (MPN/100 ml)	ISO 9308 -" 2 (2012)
	None	None
	None	None
	the Spores of Sulfite-Reducing Anaerobes (Clostridia) -" Part 2:	ISO 6461/2-1986 (E)
	E. Coli and Coliform	Water Quality-Enumeration of E.coli
	Intestinal enterococci	MOH (2)
	None	None
	None	None
	Coliform Count	APHA 9221 B
	E.Coli Count	APHA 9221 B, 9225
	Total Aerobic Plate Count	APHA 9215 B
	Total Fecal Coliform Count	APHA 9221 E
	Heterotrophic Plate Count	AS/NZS 4276.3.1 (2007)
	pH	APHA 4500 - H* B, 21% Edition
	Chlorine - Free	HACH 8021 and HACH 10069,
	Fluoride	APHA-4110 B, 215 Edition
	Biological Oxygen Demand, 5	APHA-5210 B, 215 Edition
	Free Chlorine MR	HACH method 10245, 5* Edition,
	Heterotrophic Colony Count	AS 4276.3.1-1995

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Schedule

Issue date: 18 March 2025
Valid Until: -



NO: SAMM 074

Page: 18 of 30

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Zinc Manganese	APHA 3030E, 3120B Edition 2012
	None	None
	None	None
	Determination of Organochlorine	None
	Bacillus cereus	In-house method 21BAMC-B036
	None	None
	Pseudomonas aeruginosa	In-house method 21BAMC-B064
	Total Coliforms	In-house method 21BMPN-B075
	Bacillus cereus	In-house method 21BAMC-B036
	Pseudomonas aeruginosa	In-house method 21BAMC-B064
	Total Coliforms	In-house method
	None	PCL)
	Acute Hepatopancreatic	In-house method SD?QC-WI-305 :
	None	None
	Pathogen	, , , APHA 9222A,
	None	None
	Temperature	APHA 2550 B
	Phosphorus	APHA 4500 P C
	Bromodichloromethane,	In-house Method, CL/WT/008 based
	Metals by ICP	APHA 3120 B
	Mercury	APHA 3112 B
	Chlorpyrifos	In-house Method, CL/WT/011,
	Aluminium	APHA 3125 B (ICP-MS)
	Gross Alpha, Gross Beta	ISO 11704:2018
	Heterotrophic Plate Count	APHA 9215 B (Pour Plate Method)
	pH	APHA - 4500-H B
	None	ASTM D 1293-18
	None	None
	None	None
	None	ASTM D 1293-18
	None	None
	Turbidity	APHA 2130 B
	pH	APHA 4500 H* B 23rd Edition
	Total solid dried at 103°C -" 105 °C	APHA 2540 B (2005)
	Enumeration of Plankton	Marine Water (PBPKL-STP-PP-1)
	None	APHA 4500 Norg B (2017) and
	None	USP Chapter Bacterial
	Coliform, Fecal Coliform &	APHA 9222 B.G.H.D
	None	APHA 3111 B, 2017
	None	APHA 3111 B, 2017
	None	None
	None	from HACH Method 8023, DR3900
	PH test	APHA 4500 H*B Edition 2017)
	Total suspended solids	APHA 2540 D Edition 2017)
	Turbidity Test	APHA 2130 B Edition 2017)
	None	None

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Schedule

Issue date: 18 March 2025
Valid Until: -



NO: SAMM 074

Page: 19 of 30

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
	MLSS	None
	Hydrocarbon, PAH	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	Selenium (Se) Chromium (Cr)	None
	None	None
	None	None
	None	None
	None	None
	None	None
	Ammonical Nitrogen	APHA 4500-NH3
	None	None
	Lead	APHA 3120 B
	Tin	None
	Iron	None
	Heterotropic plate count	APHA 9215 D
	Standard total coliform	APHA 9222 B
	None	None
	None	None
	pH	APHA - B
	Escherichia coli and Coliform	ISO 9308-1:2014 (E) / Enumeration by
	Bisphenol A	In-house test method MKA TMO6 based
	Total Hardness	HACH Method 8226, 8" Edition, 2015
	Hardness by Calculation	APHA 2340 B & In-house test method
	Color	HACH Method 8025, Edition, 2014
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None

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Schedule

Issue date: 18 March 2025
Valid Until: -



NO: SAMM 074

Page: 20 of 30

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	None	None
	None	None
	Determination of pH	APHA 4500-H* B, 2005
	Determination of chloride	APHA 4500-CI B, 2005
	Determination of sulphate	APHA B, 2005
	Determination of alkalinity	APHA 2320 B, 2005
	Determination of total solids	APHA 2540 B, 2005
	pH	APHA 4500 H*B
	Color	APHA 2120 C (2017)
	Heterotrophic Plate Count	APHA 9215 B (2017)
	Standard Total Coliform	APHA 9221 B (2017)
	Escherichia coli	APHA 9221 F (2017)
	Examination for Legionella spp. pneumophila	AS/NZS 3896:2008 None
	Staphylococcus aureus count	APHA 9213 B (2017)
	Fecal Streptococcus	APHA 9230 C (2017)
	Pseudomonas aeruginosa	APHA 9213 F (2017)
	Identification of Escherichia coli	In-house Method GPS/QA/TM/001
	Identification of Shiga-toxicogenic	In-house Method GPS/QA/TM/004
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	Ammonia	ASTM D1293
	None	None
	None	None
	None	None
	and Escherichia coli	None
	None	filtration)
	Clostridium perfringens	ISO 14189: 2013 (E)
	None	None
	None	None
	None	None
	None	(2005)
	None	21% Edition (2005)
	Colour	APHA 2120 C 2005
	Determination of Volatile	Method EPA 524.2 By Purge & Trap
	Oxygen Demand (COD) for High	APHA Method 5220D
	None	In-house Method JKM W 0502,

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Schedule

Issue date: 18 March 2025
Valid Until: -



NO: SAMM 074

Page: 21 of 30

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	None	on APHA 4110 B-"lon
	Colony Count at 36°C	JKM M 2038, ISO 6222:1999 (E)
	Intestinal Enterococci	i) WI 16 -" Sample Preparation for
	Enumeration of Clostridium	JKM M 2035
	Detection of pathogenic	JKM B 0201 Detection of pathogenic
	Identification and Quantification	JKM B 0406
	pH	APHA - 4500-H B
	None	None
	None	None
	None	None
	None	None
	Boron	HACH METHOD 8015
	None	None
	E. coli	APHA 9221 F (MPN Method)
	None	None
	Total Organic Carbon	APHA 5310 C
	Heterotropic plate count	APHA 9215 B, 22"4 Edition (2012)
	None	(Membrane Filtration Technique)
	None	None
	Metals by ICP	None
	None	None
	None	None
	None	None
	None	None
	None	None
	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 , Magnesium (by Calculation Method)	APHA 3500-Ca B, 2017 APHA 3500-Mg B, 2017
	Nitrate	APHA E, 2017
	None	None
	None	None
	None	None

Scan this QR Code or visit <https://accreditation.ism.gov.my/public/listing/cab/samm-ct/3003550> for the current scope of accreditation

Schedule

Issue date: 18 March 2025
Valid Until: -



NO: SAMM 074

Page: 22 of 30

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
	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
	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

Scan this QR Code or visit <https://accreditation.ism.gov.my/public/listing/cab/samm-ct/3003550> for the current scope of accreditation

Schedule

Issue date: 18 March 2025
Valid Until: -



NO: SAMM 074

Page: 23 of 30

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	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 Tl	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
	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
	None	None
Water And Wastewater	Color (TCU)	APHA 2120 B
	Color (ADMI)	APHA 2120 F
	Turbidity	APHA 2130 B
	Alkalinity	APHA 2320 B
	Total Hardness	APHA 2340 B
	Conductivity	APHA 2510 B
	Total Solids	APHA 2540 B
	Total Dissolved Solids	APHA 2540 C
	Solid Suspended	APHA 2540 D

Scan this QR Code or visit <https://accreditation.ism.gov.my/public/listing/cab/samm-ct/3003550> for the current scope of accreditation

Schedule

Issue date: 18 March 2025
Valid Until: -



NO: SAMM 074

Page: 24 of 30

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Aluminium	APHA 3030 F & 3120 B
	Barium	APHA 3030 F & 3120 B
	Beryllium	APHA 3030 F & 3120 B
	Cadmium	APHA 3030 F & 3120 B
	Calcium	APHA 3030 F & 3120 B
	Chromium	APHA 3030 F & 3120 B
	Enumeration of Pseudomonas aeruginosa	APHA 9213 E, Edition
	Fecal Coliform	APHA 9221 E, 22"4 Edition
	Coliform Count	APHA 9221 B, 22" Edition
	E. coli Count	APHA 9221 B & APHA 9225, Edition
	Total Aerobic Plate Count	APHA 9215 B, 22" Edition
	Coliform and E. coli -" Most	JKM M 2040
	Coliform and E. coli -" Most	JKM M 2040
	Colour (ADMI)	APHA 2120 F Edition (2005) ADMI Weighted-
	Biochemical Oxygen	APHA 5210 B
	None	None
	Suspended Solids	APHA 2540 D (2017)
	Cadmium	APHA 3111 B (2017)
	Copper	APHA 3111 B (2017)
	Iron	APHA 3111 B (2017)
	Lead	APHA 3111 B (2017)
	Zinc	APHA 3111 B (2017)
	Nickel	APHA 3111 B (2017)
	Manganese	APHA 3111 B (2017)
	Total Chromium	APHA 3111 B (2017)
	Tin	APHA 3111 B (2017)
	Mercury	APHA 3112 B (2017)
	Arsenic	APHA 3114 B (2017)
	Chromium	APHA 3500-Cr B (2017)
	Chlorine (Cl ₂)	APHA B (2017)
	Sulfide	APHA 4500- S* F (2017)
	Cyanide	APHA (2017)
	Boron	APHA 4500-B C (2017)
	Oil & Grease	APHA 5520 B (2017)
	Phenol	APHA 5530 C (2017)
	COD (Open Reflux)	APHA 5220 B (2017)
	COD (Closed Reflux)	APHA 5220 C (2017)
	Biochemical Oxygen Demand (BODS, 20°C)	APHA 5210 B, 4500 O-C (2017)
	pH	APHA 4500-H*B (2017)
	Calcium	APHA 3111 B (2017)
	Magnesium	APHA 3111 B (2017)
	Sodium	APHA 3111 B (2017)
	Potassium	APHA 3111 B (2017)
	Total Solids	APHA 2540 B (2017)

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Schedule

Issue date: 18 March 2025
Valid Until: -



NO: SAMM 074

Page: 25 of 30

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Turbidity	APHA 2130 B (2017)
	Determination of Chromium	In-House STP/WE/034/VI based on
	Hardness	APHA 2340 C
	Standard Total Coliform	APHA 9222 B, Edition, 2005
	Coliform and Escherichia coli,	JKM M 2033 Coliform and E. coli -
	Cadmium	None
	Formaldehyde	APHA 6252 B, 24" Edition
	Formaldehyde	In-house method SGS-TM-ENVI-W- 128 with reference to ISO 12460-5
	Boron	APHA 3120 B, Edition
	Total Coliform and Escherichia	APHA 9222J:23'4 Ed., Simultaneous
	Free Chlorine	APHA 4500 Cl- G
	Sulphate	APHA 4500 SO4? D
	BOD	APHA 5210 B
	COD	APHA 5220 C
	Total Suspended Solids	APHA 2540 D
	Metal Determination by Inductively Coupled Plasma -"	None
	Optical Emission Spectrometry (ICP-OES)	None
	Arsenic	None
	Barium	None
	Cadmium	None
	Cobalt	None
	Chromium	None
	Copper	None
	Iron	None
	Manganese	None
	Nickel	None
	Lead	None
	Zinc	None
	Silver	None
	Aluminium	None
	Selenium	None
	Chromium Trivalent	In-House Test Method LMS Method
	Boron	In-House Test Method, LMS Method
	Turbidity	APHA 2130 B, 2005
	Turbidity	APHA 2130 B, 2017
	Conductivity	APHA 2510 B, 2005
	Conductivity	APHA 2510 B, 2017
	Salinity	APHA 2520 B, 2005
	Salinity	APHA 2520 B, 2017
	Total Solids	APHA 2540 B, 2005

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Schedule

Issue date: 18 March 2025
Valid Until: -



NO: SAMM 074

Page: 26 of 30

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Total Solids	APHA 2540 B, 2017
	Total Dissolved Solids	APHA 2540 C, 2005
	Total Dissolved Solids	APHA 2540 C, 2017
	Total Suspended Solids	APHA 2540 D, 2005
	Total Suspended Solids	APHA 2540 D, 2017
	Temperature	APHA 2550 B, 2005
	Temperature	APHA 2550 B, 2017
	Chloride	APHA 4500-CI B, 2005
	Chloride	APHA 4500-CI B, 2017
	pH	APHA 2005
	pH	APHA 2017
	Ammoniacal Nitrogen	APHA 4500-NH3 B & C, 2005
	Temperature	APHA 2550 B, 2005
	Temperature	APHA 2550 B, 2017
	Colour (Hazen/PtCo/CU Units)	APHA 2120 C 2005 APHA 2120 C 2017
	Colour, ADMI	APHA 2120 F, 2005 APHA 2120 F, 2017
	Turbidity	APHA 2130 B, 2005 APHA 2130 B, 2017
	Acidity	APHA 2310 B, 2005 APHA 2310 B, 2017
	Alkalinity	APHA 2320 B, 2005 APHA 2320 B, 2017
	Hardness by calculation	APHA 2340 B, 2005 APHA 2340 B, 2017
	Hardness, EDTA Titrimetric	APHA 2340 C, 2005 APHA 2340 C, 2017
	Conductivity	APHA 2510 B, 2005 APHA 2510 B, 2017
	Salinity	APHA 2520 B, 2005 APHA 2520 B, 2017
Total solids	APHA 2540 B, 2005 APHA 2540 B, 2017	
Temperature	APHA 2550 B, 2017	
Water And Wastewater (continued)	Copper	APHA 3030 F & 3120 B
	None	APHA 3030 F & 3120 B
	Lead	APHA 3030 F & 3120 B
	Magnesium	APHA 3030 F & 3120 B
	Manganese	APHA 3030 F & 3120 B
	Nickel	APHA 3030 F & 3120 B
	Potassium	APHA 3030 F & 3120 B
	Silicon	APHA 3030 F & 3120 B
	Silver	APHA 3030 F & 3120 B
	Sodium	APHA 3030 F & 3120 B
	Zinc	APHA 3030 F & 3120 B
	Thallium	APHA 3030 F & 3120 B

Scan this QR Code or visit <https://accreditation.ism.gov.my/public/listing/cab/samm-ct/3003550> for the current scope of accreditation

Schedule

Issue date: 18 March 2025
Valid Until: -



NO: SAMM 074

Page: 27 of 30

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Tin	In-House Method Based on APHA 3030 F and 3120 B
	Aluminium	APHA 3111 B
	Cadmium	APHA 3111 B
	Calcium	APHA 3111 B
	Chromium	APHA 3111 B
	Copper	APHA 3111 B
	Iron	APHA 3111 B
	Lead	APHA 3111 B
	Magnesium	APHA 3111 B
	Manganese	APHA 3111 B
	Nickel	APHA 3111 B
	Silver	APHA 3111 B
	Tin	APHA 3111 B
	Zinc	APHA 3111 B
	Mercury	APHA 3112 B
	Arsenic	APHA 3114 B
	Selenium	APHA 3114 B
	Chromium (Cr *)	In-House Method STP/WE/026/VI Based on APHA 3500-Cr B
	Chromium (Cr	APHA 3500-Cr B
	Sodium	APHA 3500-Na B
	Boron	APHA 4500-B C
	Chlorine	APHA 4500-Cl B
	Chloride	APHA 4500-Cl' B
	pH	APHA 4500-H* B
	Phosphorus	APHA 4500-P C
	Silica	APHA 4500-SiO ₂ C
	Dissolved Oxygen	APHA 4500-O C
	Sulphide	APHA 4500-S* F
	Biochemical Oxygen Demand (BOD)	APHA 4500-O C
	Biochemical Oxygen Demand (BOD)	APHA 5210 B
	Chemical Oxygen Demand (COD)	APHA 5220 B
	Chemical Oxygen Demand (COD)	APHA 5220 C
	Oil and Grease	APHA 5520 B
	Phenol	APHA 5530 C
	Phenol	APHA 5530 D
	Anionic Surfactant	APHA 5540 C
	Cyanide	STP/WE/017/VI (In-House Based on APHA 4500-CN- C and HACH Method 8027)
	Fluoride	In-House (Based on APHA 4500-F- B Edition and HACH Method 8029)
	Sulfate	STP/WE/028/V1 (In-House Based on APHA & Hach Method 8051)

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Schedule

Issue date: 18 March 2025
Valid Until: -



NO: SAMM 074

Page: 28 of 30

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Formaldehyde	In-House Method Based on HACH 8110
	Ammoniacal Nitrogen	APHA 4500 NH3 B & C
	Nitrate	APHA B

SCOPE OF TESTING : MICROBIOLOGY

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Antiseptic Cleaner / Liquid Hand Sanitizer	Staphylococcus aureus ATCC 6538	None
Bread	Determination of Ash	AOAC 930.22
	Determination of Protein	AOAC 950.36
	None	by UHPLC
	pH	AOAC 945.42
Disinfectant Liquid	Escherichia Coli ATCC e	None
Fermented Product/food Product	None	STP/Micro/FD/015/VI In-House Method Based on Chr Hansen A/S
Food Samples (including Bird-™s Nest)	Aerobic Plate Count in Foods	AOAC 990.12 AOAC Official Methods of Analysis (2000)
Food Sugar & Sugar Products E Dairy Products E Meat, Poultry & Derived E Product Sauces, Herbs, Spices & Condiments	Detection of Listeria spp & Listeria monocytogenes in Food	ISO 11290-1: 1996 Amd.1: 2004 Method
	Detection of Salmonella in Food	FDA BAM, Nov 2011, 8" Edition, Chapter 5
Foodstuff (including Bird-™s Nest)	Total Yeasts & Moulds Count	AS 5013.29.2009
Indoor Air	None	In-House
	Total Bacterial Count	In-House Method CLWI-TEC-M017M
	Total Fungi Total Bacteria	NMAM 0800
Liquid Powder	Salmonella spp. Escherichia coli (Semi quantitative and detection) Bile -" tolerant Gram- negative bacteria (semi quantitative)	British Pharmacopoeia Vol. V, Appendix XVI B:2019 (2.6.31 Microbiological Examination of Herbal Medicinal Products for Oral use:Microorganisms)
Medical Devices	Bioburden Test	None
	Ethylene Oxide (ETO), Ethylene	In-house Method QWI-OF/17-150
	Biological Indicator Sterility Test	In-house Method QWI-MB/17-070
	Endotoxin	USP Bacterial Endotoxins Test (Kinetic- Turbidimetric Technique) (2012)
	Bioburden Test	ISO 11737-1:2018/Amd 1:2021
	Sterility Test	ISO 11737-2:2019
	Sterility Test	USP (2020)

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Schedule

Issue date: 18 March 2025
Valid Until: -



NO: SAMM 074

Page: 29 of 30

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Bacteriostasis and Fungistasis Test (Method Suitability Test)	In-house Method QWI-MB/17-005 based on USP , ISO 11737-2
	Isolation & Detection of Salmonella	British Pharmacopoeia, Appendix XVI B, 2015
	Bioburden Test	ISO 11737-1:2018
	1. Ethylene Oxide process	EN ISO 10993-7:2008
	Determination of a population of Bacterial identification up to species level (Refer to Appendix A(i) & A(ii))	None
	Sterility Test	BD BBL Crystal Identification Gram Positive ID Kit & Gram Negative ID Kit (Enteric / Non Fermenter ID Kit) LWI
	Ethylene Oxide Sterilization	BP 2019, Vol. IV, Appendix XVI
	Sterility	In-House Method
	Population Count	USP 41 Microbiological Test
	Cytotoxic effect (in vitro)	In-House Method
	Intracutaneous reactivity of the skin (in vivo)	MTT Assay (Annex C) based on ISO 10993-5:2009
	None	Animal Irritation Test by Intracutaneous (Intradermal) Administration ISO 10993-23:2021
	In-vitro Cytotoxicity Test	In-house Method [TM-500] Sterility
	Systemic Toxicity	ISO 10993-5:2009,
	Haemolysis Study of Medical In Vitro Cytotoxicity Test	ISO 10993-11:2017 Edition
	Cytotoxicity	Biological evaluation of medical Direct Contact Cytotoxicity
	Bioburden Test- Microbial	ISO 10993-5 (2013): Biological
	Sterility Tests	USP 43 ,
	Estimation of Product Bioburden	USP 43 ,
	Endotoxin	None
		Test for Bacterial Endotoxin, BP
Multipurpose Cleaner	10536	None
Oil	Total Combined Yeast & Diethyl phthalate (DEP)	None
	Total Polar Compound	(2009)
	Ethion	In-house Method QWI-OF/17-073 on AOAC 2007.01
	Extraction of Pig DNA from	JKM H 7402 -" Extraction of Pig
	None	None
	Pseudomonas aeruginosa	BP 2013/2019 Appendix XVI B.4.4
	None	None
	Identification of Plastic Residue	None
		MOH MO03-003: Detection of Plastic
Other Specified Foods	None	None
Pharmaceutical Product	Heavy metals	None
	Stability Study Assessment / Propyl Paraben Methyl Paraben	a) UN-Q/SS/P/BT19 (Leftose)
	Lovastatin as Monacolin K	In-House No.FH19 (By HPLC)
	Vitamin B2 (Riboflavin)	In-House No.FH41 (By HPLC)
		(Based on:

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Schedule

Issue date: 18 March 2025
Valid Until: -



NO: SAMM 074

Page: 30 of 30

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	None	8627EN
	None	None
Surface Area And Utensils	None	In-House
Tablet	Mould Count (TYMC)	None
	Lovastatin	USP38-NF33 using HPLC
	None	None
	None	Pour Plate Method Page V-A500
	None	None
	Total Yeast Mould Count	Appendix F1
Traditional Medicine	Total Aerobic Microbial	None
	Arsenic	In-house Method QWI-OF/17-041
	NSAIDS / Analgesics	In-house validated
	Uniformity of weight	British Pharmacopoeia 2002
	Arsenic, Lead and Cadmium	In-house method: CPCT/TP/MM/
	Corticosteroids	In-house validated method BSOP-
	None	None
	Lead	on AOAC 999.11
	None	None
	Tests for microbial contamination:	BP 2020 -" Appendix XVIB*
	None	based on AOAC
	None	None
	None	None
	Steroids Prednisone Prednisolone Flumethasone	In-house method SGS-TM-PHAR-003 with reference to Anal. Methods, 2017,9, 2104-2115

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