

NO: SAMM 136

Page: 1 of 35

LABORATORY LOCATION/ CENTRAL OFFICE:	Jabatan Kimia Malaysia Negeri Sabah Rose Garden Jalan Penampang 88300 Kota Kinabalu, Sabah , 88300, SABAH MALAYSIA
	
ACCREDITED SINCE :	25 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:	Jabatan Kimia Malaysia Negeri Sabah Rose Garden Jalan Penampang 88300 Kota Kinabalu, Sabah , 88300, Sabah
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
(prescribed Premises)	None	Effluent, Edition, 2019
/ Sewage Effluents	None	Distillation step
And Derived Products,	None	Direct Solvent Extraction & HPLC
And Leachate	None	None
	None	Liquid-Liquid Partiton-Gravimetric
	None	None
Bean Milk	None	8" Edition (1981) Kjeldahl Digestion
Bean Milk / Drink	None	None
Beverages	Ethanol	JKM K0101: In house Method based

Schedule

Issue date: 25 March 2025
Valid Until: -



NO: SAMM 136

Page: 2 of 35

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Bis(2-ethylhexyl) phthalate (DEHP)	None
	None	None
	None	None
	Benzoic Acid and its Salt	based on AOAC 979.08 &
	Sodium Cyclamate	In-house Method QWI-OF/17-130
	Sucrose	In-house Method QWI-OF/17-129
	Ethanol	In-house Method, Ref. No.
	Acesulfame-K	E03-009, Based on European
	Methylparaben, Ethylparaben,	In-house Method No.: MOH E03-019,
	Acesulfame K	In-house Method, Ref. No. MOH E03-009, Determination of
	Detection of Salmonella	AOAC Official Method 2014.01
	None	None
	Vitamin E	None
	Phthalate Esters	GB/T 21911-2008 (GC-MS)
	None	None
	None	None
	None	None
	None	934.01 19" Edition 2012
	None	None
	None	Labeling, 1993 & Food Regulation
	e Antimony	Based on AOAC 999.11
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	Aerobic Plate Count	FDA-BAM Chapter 3 (Plate Count)
	None	None
	None	None
	None	None
	Alicyclobacillus spp.	Compendium of Microbiological
	None	None
	None	None
	Determination of ethanol in	JKM 02/04
	Total Sugars	JKM K0616 -" Determination of Total
	pH	AOAC 945.10
	None	None
	None	None
	None	None
	None	None
	None	None
	Protein/Total Nitrogen	In-house Method SOP-0217-1031 by

Schedule

Issue date: 25 March 2025
Valid Until: -



NO: SAMM 136

Page: 3 of 35

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	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
	Performance Liquid	983.16, Benzoic Acid and Sorbic
	Chromatography	Acid in Food, AOAC International,
	Performance Liquid	2005
	Chromatography	
	Determination of caffeine in Soft	In-house method FQL-TM-FA202
	Drink by Ultra High Performance	based on Ashoor et. Al. J. Assoc.
Canned Fish	Liquid Chromatography	Off. Anal. Chem. Vol.66, No.3,
	Liquid Chromatography	1983
	Fish Content	JKM F 6045
	Products	996.06, Edition, 2000
Cheese	Products	992.03 Edition, 2000
	Percent fish	JKM F 0942 In-house Method based
	Total Fat	JKM F 6013
	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
Coconut Powder,	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
Coffee Mixture	None	Foods, 7th edition by David Pearson.
Condensed / Cultured Or	None	None
Confectionery,	None	In-house based on Pearson-TMs
Crude Palm Oil	None	Drying by Air-Oven Method
	b-carotene	MPOB p2.6 :2004
	Deterioration of Bleaching Index	MPOB Test Method p2.9:2004
	Volatile Matter (VM)	MS 817:1989, Sect.4
	Peroxide Value (PV)	MS 817:1989, Sect.6
	Acidity (FFA)	MS 817:1989, Sect.8
	Impurities (Dirt)	MS 817:1989, Sect.5
	Anisidine Value (AV)	MS 817:1989, Sect.7
	Specific Extinction in UV Light (UV Totox)	MS 817:1989, Sect. 21
	Deterioration of Bleachability Index (DOBI)	MS 817:1989, Sect.18
	Carotene	MS 817:1989, Sect. 9

Schedule

Issue date: 25 March 2025
Valid Until: -



NO: SAMM 136

Page: 4 of 35

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Iron (Fe)	In-house method (Ref. No. PP1) based on AOAC 10 ^o Edition and Cocks & Van Rede, (1966) Laboratory Handbook for Oil and Fat Analysts
	Copper (Cu)	In-house method (Ref. No. PP2) based on AOAC 10 ^o Edition and Cocks & Van Rede, (1966) Laboratory Handbook for Oil and Fat Analysts
	Phosphorus (P)	MS 817: 1989, Sect. 14
	Iodine Value (IV)	MPOB p 3.2: 2004
	Determination of Paraquat	In-house method
	DOBI	MPOB p2.9:2004
	Volatile Matter (VM)	MS 817:1989, Section 4
	DOBI	MPOB p2.9:2004
	Deterioration of Bleachability Determination of Iodine Value	MPOB p2.9 : 2004 In-house Method JKM K 0219
Desiccated Coconut And Effluents	None	Soxhlet Continuous Extraction and Analysis of Rubber and Palm Oil Mil
	Turbidity	APHA 2130 B
	Total Coliform	In House method based on APHA 9222 J
Environment	None	None
	by sedimentation method,	None
	None	None
Fermented Milk)	None	Chemical Analysis of Food,
Flavour Enhancer -msg	None	None
Flour And Confectionary,	Fat	JKM F 0921
Food	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
	None	None
	None	None
	Detection of Salmonella sp.	SO 6579:2002 (E)
	Detection of E. coli 0157	SO 16654:2001 (E)

Schedule

Issue date: 25 March 2025
Valid Until: -



NO: SAMM 136

Page: 5 of 35

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	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
	None	None
	Ash	AOAC 945.46
	Carbohydrate	In-house method TM-FD-006:

Schedule

Issue date: 25 March 2025
Valid Until: -



NO: SAMM 136

Page: 6 of 35

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	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
	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 /
	Alcohol (ethanol)	In-house Method No: JAKIM /
	Salmonella spp.	AOAC OMA 2016.01 (3M-,¢ Molecular

Schedule

Issue date: 25 March 2025
Valid Until: -



NO: SAMM 136

Page: 7 of 35

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	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	JKM B 0201
	Coliform Counts (Petrifilm)	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
	None	None
	None	AOAC 990.12,19" Edition 2012

Schedule

Issue date: 25 March 2025
Valid Until: -



NO: SAMM 136

Page: 8 of 35

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

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NO: SAMM 136

Page: 9 of 35

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	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:
	Listeria monocytogenes	Detection Method
	Listeria monocytogenes	Method No: MOH
	Listeria monocytogenes	AOAC Official Method 991.14 3M-,¢

Schedule

Issue date: 25 March 2025
Valid Until: -



NO: SAMM 136

Page: 10 of 35

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Escherichia coli / Coliform	Petrifilm-„¢ E.coli / coliform count Plates
	Escherichia coli / Coliform	Method No: MOH K03-203
	Escherichia coli / Coliform	AOAC Official Method 990.12 3M-„¢
	Aerobic Count Plates	Petrifilm-„¢ Aerobic Count Plates
	Aerobic Count Plates	Method No: MOH
	Aerobic Count Plates	AOAC Official Method 2003.07
	Staphylococcus aureus	2003.08, 2003.11 3M-„¢ 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 KO3-105 (1)
	Vibrio Species other than cholerae	other than Vibrio parahaemolyticus and Vibrio cholera
	Vibrio Species other than cholerae	Method No: MOH KO3-111 (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
	Camphylobacter spp	Method No: MOH (1)
	Camphylobacter spp	ISO 11290-2: 1998 / Amd. 1:2004 (E)

Schedule

Issue date: 25 March 2025
Valid Until: -



NO: SAMM 136

Page: 11 of 35

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	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 colour (see Appendix I)	Water Soluble Synthetic Food Colour in Food by Paper
	colour (see Appendix I)	Chromatography and UV/ V15 spectrophotometer
	colour (see Appendix I)	In -" House Method, Ref. No. MOH
	colour (see Appendix I)	FDA Food and Drug =
	Total Plate Count (TPC)	FQL-TM-FA205 In-House Method
	Determination of Boric acid in Food	based International Food on
	by UV-Vis Spectrophotometer	Research Journal 17: 1107-1112
	by UV-Vis Spectrophotometer	(2010)
	by UV-Vis Spectrophotometer	AOAC Official Method 990.12
	Total Plate Count in Food by using 3M Petrifilm Aerobic Count Plate	None
	Enumeration of Escherichia Coli in Food by using 3M Petrifilm	None
	Escherichia Coli/Coliform Count Plates	None
	Enumeration of Coliform in Food by using 3M Petrifilm Escherichia Coli/Coliform Count Plates	None
	Enumeration of Staphylococcus Aureus in Food by using 3M	None
	Petrifilm Staph Express Count Plates	None
	Detection of Bacillus Cereus in Food	Compact Dry -œNissui-• Bacillus Cereus
	Detection of Salmonella in Food	Bacteriological Analytical Manual, Chapter 5, Salmonella
	Detection of Salmonella in Food by using 3M Petrifilm Salmonella Express System	AOAC Official Method of Analysis 2014.1
	Salmonella spp.	None
	Analysis of OrganophosphorusMethod: AOAC 2007.01	ISO 6579-1:2017
	Analysis of Organophosphorus	Analysis of Organophosphorus
	Total Plate Count (TPC)	FDA Food and Drug =

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Schedule

Issue date: 25 March 2025
Valid Until: -



NO: SAMM 136

Page: 12 of 35

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	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:
Food Laboratory	None	None
	None	None
	None	None
	None	None
Industrial / Sewage Effluent	Oil and Grease	APHA 5520 B, 21st Edition (2005)
Industrial And	Calcium Hardness	APHA 3500 CaB
	Silica	APHA 4500 Si D
Industry Laboratory	None	None
Laboratory	None	None
	None	None
	None	None
	None	None
	None	Analysis of Rubber and Palm Oil Mill
	None	Analysis of Rubber and Palm Oil Mill
Lodized Salt	Iodine	JKM F 0919
Milk (powdered /	Acidity	JKM F 0918
Non-alcoholic Beverages	None	ISO -6579:2002(E)
	None	None
	None	Based on AOAC? 989.05 and
	None	Food Regulations 1985
	Vitamin C	In-House Method CLWI-TEC-F025
	Benzoic Acid, Benzoic Acid	In-House Method CLWI-TEC-F005
	Caffeine	In-House Method CLWI-TEC-M042

Schedule

Issue date: 25 March 2025
Valid Until: -



NO: SAMM 136

Page: 13 of 35

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Vitamin B1	In-House Method CLWI-TEC-M040
	Sulphur Dioxide	AOAC? 990.28
	None	None
	None	None
	None	Page 69-75
	None	None
	Phthalates Phthalate (DBP) e Benzyl Butyl Phthalate e (BBP) Di-2-ethylhexyl Phthalate (DEHP) Di-n-octyl Phthalate (DNOP) e Di-isononyl Phthalate (DINP) e	In-house method, CL-TM-01-042 based on CPSC-CH-C1001-09.3 Standard Operating Procedure for Determination of Phthalates, Consumer Product Safety Commission Directorate for Laboratory Sciences, Division of Chemistry, GC/MS
	None	None
	Caffeine	In-house Method, Ref No. MOH:
	Vitamin B1 and B2	In-house method LWI-TEC-
	Calcium	F033 based on 985.01
	None	F029 by HPLC with HILIC
	None	None
	None	None
	None	None
Non-alcoholic Beverages,	None	Based on J.A.O.A.C vol.70 (1987)
Nuts, Fruits And Vegetables	None	P.892-896.
	None	None
	None	None
Other Specified Foods:	None	Based on the Chemical Analysis of
Other Specified Foods: Soya	None	None
Others: Seri Kaya & Soya	None	Pearson's Chemical Analysis of Foods,
Palm Kernel Cake / Expeller	Shell	MPOB k2.3: 2004
Palm Oil And Palm Oil	Colour	MPOB p4.1 :2004 Lovibond Method
	Impurities	MPOB, Ref. No . P2.2, 2004
	Determination of Fatty Acid	MPOB p3.5 : 2004
	Free Fatty Acids	AOCS Ca 5a-40 (1997)
Petroleum Products	Liquefied Petroleum Gas (LPG)	JKM 01/14-In House Method
	Sn, Si, Mg, Mo, B, Na, K, Ca, Zn,	based on ASTM D5185-13 by
	None	None
	(Carbon Dioxide, Nitrogen, Methane,	None
	(Carbon Dioxide, Nitrogen, Methane,	None
	Dynamic Viscosity and Density of Liquids	ASTM D7042-21
	Water in Petroleum Products	ASTM D95-13

Schedule

Issue date: 25 March 2025
Valid Until: -



NO: SAMM 136

Page: 14 of 35

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Pour Point of Petroleum	ASTM D97-17b
	Acidity	ASTM D3242
	Sediment by Extraction	ASTM D473
	Determination of Flash Point by	ASTM D 93
	Density and Relative Density of Water Content	ASTM D4052-02 (JKM 01/12) by ASTM D6304-16e1 (Procedure A) (Coulometric Karl Fischer)
	Density	ASTM D4052-18
	Composition analysis C8+	In-House Method 0522 based on ASTM D5442 17 Gas Chromatography
	None	None
	None	None
	Standard Test Method for	None
Products	Chloride)	None
	None	None
	None	AOCS Ca 2c-25, 2017
	None	None
	None	None
	None	None
	None	based on AOAC 962.19
	Hydroxy Methyl Furfural (HMF)	n-house Method QWI-OF/17-143
	None	None
	None	None
	Listeria spp.	FDA-BAM Online, Chapter 10 (2022)
	Total Yeast and Mold Count	FDA-BAM Online, Chapter 18 (2001)
	Acidity	MPOB, Ref. No . P2.5, 2004
	Total Nitrogen & Protein	STP/Chem/A03 based on AOAC 20
	None	None
	None	012-RO based on BS 12014-4:2005
	None	None
	None	None
	(Detection)	USP 38 (Method 62)
	Salmonella (Detection)	USP 38 (Method 62)
	Escherichia coli (Detection)	USP 38 (Method 62)
	Bile - tolerant Gram Negative	USP 38 (Method 62)
	None	ASTM A 370: 2020 Clause 18
	Dimethyl Phthalate (DMP)	003 with reference to IEC 62321-
	Enumeration of	AOAC Official Method 2003.07
	Aureus	None
	None	None
	None	None
	None	Detection)
	None	Labeling, Chapter 1, 1993

Schedule

Issue date: 25 March 2025
Valid Until: -



NO: SAMM 136

Page: 15 of 35

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	None	None
	None	None
	None	None
	Maltose & Sucrose	Labeling Method No. 980.13
	None	6590EN & LCTECH SOP, using GC-
	Deoxinevalenol, Fumonisin B1,	Analytical Toxicology, 5:2, 2014, Pg.
	None	AS 5013.4-2009 (Pour Plate Method)
	None	None
	None	PBPK/BAC 02
	Dose	None
	None	D5865-10a
	None	None
	None	None
	None	None
	None	None
	None	None
	Disturbance power from cable	CISPR 16-2-2:2010
	Nickel	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	campylobacter jejuni and C. coli)	None
	None	EN 61000-4-2:2009
	Electrical Fast Transient	IEC 61000-4-4:2012
	electromagnetic field immunity	EN IEC 61000-4-3:2020
	None	Based on Rapid Porcine Meat (Raw)
	None	Based on Gerhardt Dumatherm
	Gelatin/Collagen	HV/TM/BCLAB/005
	Fat/Oil	HV/TM/BCLAB/003
	None	and Analysis of Foods; 9' Edition,
	real-time PCR	In-house Method IHRAM-TM-101
	None	994.10 & AOAC 976.26, 17" Edition,
	None	950.35 17 Edition, 2000
	None	None
	Density	BP: Appendix V-A246 G. Density
	None	Determination of pH

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Schedule

Issue date: 25 March 2025
Valid Until: -



NO: SAMM 136

Page: 16 of 35

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Weight per mL at 20-25 °C	BP Appendix V G Determination of
	Limit and method of measurements	ANSI C63.4:2014
	None	None
	Carbohydrate	In-House Method CLWI-TEC-F022
	None	Agrobot, Cluj 38 (1) 2010, 44-48
	None	None
	None	None
	None	None
	None	None
	Copper	None
	Electronic Apparatus -" Safety Requirements	Except:
	Total Carbohydrate	Method of Analysis for Nutrition
	None	2005.Page 393-397
	None	None
	e	None
	None	None
	None	None
	None	None
	None	None
	Impurities	MPOB p2.2:2004
	Peroxide Value	MPOB p2.3:2004
	Acidity/FFA	MPOB p2.5:2004
	Iodine Value	MPOB p3.2:2004
	Colour Lovibond	MPOB p4.1 Part 1:2004
	Slip Melting Point	MPOB p4.2:2004
	Anisidine value	MPOB p2.4:2004
	None	Specimen Clause 6.2 -" Rigid Tubes
	API Gravity of Crude Oils by	ASTM D5002
	Density, Relative Density of API	ASTM D4052
	Yield Strength	ASTM A370-21 (Section 7 to 14)
	None	on AOAC 925.45B
	None	None
	Butyric acid (C4:0)	None
	(cis)	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	on Mettler Toledo Ti-Note EasyPlus
	None	C (2008)
	None	None
	None	None

Schedule

Issue date: 25 March 2025
Valid Until: -



NO: SAMM 136

Page: 17 of 35

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Yeast & Mould	FDA-BAM Chapter 18 (Plate Count)
	None	None
	None	None
	None	None
	None	None
	Fat (Acid Hydrolysis)	n House Method TM/F-014 Based on
	Moisture	n House Method TM/F-004 Based on
	None	Examination of Foods, 4th Edition
	Vibrio parahaemolyticus	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	Coliform	FDA-BAM Chapter 4 (2020)
	Fecal Coliform	FDA-BAM Chapter 4 (2020)
	None	None
	None	AOAC 991.14 (3M Petrifilm) (2002)
	None	None
	Clostridium perfringens Count	FDA-BAM Chapter 16 (2001)
	None	None
	Dynamic Viscosity and Density and Fire Points by Cleveland	None
	Moisture Karl Fischer Reagent	ISO 8534 (M) / KF Volumeter (E) /
	Flash Point (Cleveland Open	ASTM D 92-90
	None	Gel-Clot Method
	None	None
	Test for absence of I	None
	None	None
	None	L03-004, Based on VICAM Zearala
	None	Spectrometry (WDXRF)
	in Fruit Juices and Related	onBrause et al., Journal of AOAC
	None	Lovibond Colour in Palm Oil and Palm
	None	(CTAB Protocol) based on
	None	Conventional Polymerase Chain
	None	(HPLC)
	None	None
	Violet	In-House No.FH 38
	None	None
	None	None

Schedule

Issue date: 25 March 2025
Valid Until: -



NO: SAMM 136

Page: 18 of 35

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Refer Appendix III	2007.01 (GCMSMS)
	None	None
	None	None
	-35S Promoter	Detection Using Real Time PCR
	None	None
	None	None
	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 th 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
	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
	None	G03-123(1)-Detection of Maize in

Schedule

Issue date: 25 March 2025
Valid Until: -



NO: SAMM 136

Page: 19 of 35

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	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: 25 March 2025
Valid Until: -



NO: SAMM 136

Page: 20 of 35

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, 5th 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: 25 March 2025
Valid Until: -



NO: SAMM 136

Page: 21 of 35

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
Rubber & Palm Oil Mill	BOD (Reference Method)	AOCS Cc (1997)
Santan Or Coconut Cream	None	Revised Standard Method for Gravimetric Method.
Sauces,	Benzoic Acid, Sorbic Acid	JKM F 0102
	Total Coliform Count	GB 4789.3-2016 (Method MPN)
Sauces, Dairy Products,	Total Nitrogen/Protein	JKM F 0908
Sauces, Fish And Fish	Salt Content (As Sodium	JKM 0920
Sewage Effluent	None	Edition (2005) EDTA Titrimetric
	None	218 Edition (2005) Molybdo-Silicate
	(COD)	Open Reflux Method
Spices,	None	In-house method
Spices, Cocoa Powder,	Total Ash and Water Insoluble	JKM F 0901

Schedule

Issue date: 25 March 2025
Valid Until: -



NO: SAMM 136

Page: 22 of 35

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Surface Water	Oil and Grease	APHA 5520 B, Edition (2017)
	Chloride	DL 007 based on HACH 8113
	Chromium, Hexavalent	APHA 3500-Cr D Ed (1995) APHA 3500-Cr B Ed (2005)
	Chromium, Trivalent	In-house Method QWI-CH/17-007
	None	None
	(Be), Calcium (Ca), Cadmium	None
	None	None
	None	None
	Fluroxypyr	None
	None	None
	None	None
	Total Coliform	APHA 9222 B, 2017
	None	None
	Lead, Cadmium, Manganese,	AAS Direct Air -" Acetylene Flame
	None	Demand
	None	hardness
	None	None
	& Faecal Coliform	WHO Guideelines for Drinking Water
	None	ISO 7899-2: 2002 (E)
	Total Coliform & Escherichia	JKM M 2040, In-house Method based
	None	Turbidity Meter
	Sulphide (1)	APHA F
	Calcium as Ca	None
	Iron	None
	Oil and Grease	APHA 5520B
	Escherichia coli	MS ISO 9308-1:2011 (Membrane Filtration Technique)
	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*
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	e Arsenic	None
	None	None
	None	Technique

NO: SAMM 136

Page: 23 of 35

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	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
Surface Water And Industrial	Ammoniacal Nitrogen	APHA 4500 NH ₃ B Preliminary
Surface Water And Potable	Ammonia	APHA 4500-NH ₃ D,
Surface Water, Industrial /	Chemical Oxygen Demand	APHA 5220 B, Edition (2005)
Surface Water, Potable	Chemical Oxygen Demand	APHA 5220 D,
	pH	In-House Method (UK/LT-001) based
	None	Oxidation Method - 21% Edition
Tea	Water Soluble Extract	JKM F 0912
	Water Soluble Extract in Tea	JKM F 0912 Determination of Water
	Magnesium	None
	None	None
	None	None
	None	None
	Water Soluble Extracts	JKM F 0912 based on (i) AOAC
	Pesticide Residues:	In-house Method, Ref. No. MOH:
Tea Powder,	None	None
Tea, Coffee Powder And	Ash	Ashing & Gravimetric Method
Vinegar	Acetic Acid	JKK(KK) KES 9 6092
	None	986.15 and APHA 3120 B, APHA
	Acetic Acid by Titration	JKM F 0911 based on Pearson's
	None	based on ISO 22964:2017
Water And Groundwater	(COD)	21st Edition (2005)
Water And Wastewater	Colour (ADMI)	APHA 2120 F Edition (2005) ADMI Weighted-

Schedule

Issue date: 25 March 2025
Valid Until: -



NO: SAMM 136

Page: 24 of 35

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	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)
	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 SO ₄ ? D
	BOD	APHA 5210 B

Schedule

Issue date: 25 March 2025
Valid Until: -



NO: SAMM 136

Page: 25 of 35

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	COD	APHA 5220 C
	Total Suspended Solids	APHA 2540 D
	Metal Determination by	APHA 3120 B
	Inductively Coupled Plasma -"	None
	Optical Emission Spectrometry	None
	(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
	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

NO: SAMM 136

Page: 26 of 35

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	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 Laboratory	None	None
Water, Groundwater,	None	WHO Guidelines for Drinking Water
	None	None
	None	None

SCOPE OF TESTING : MICROBIOLOGY

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Beverages, Chicken/beef	None	None
Curry, Sardine, Sambal	Escherichia Coli	JKM M 3053
Dairy Products,	Moisture	JKM F 0302
	Coliform	JKM M 3043
	Staphylococcus aureus count	JKM M 3073
	Salmonella spp	JKM-M 3101 based on
	Aerobic Plate Count	GB 4789.2-2016
	None	None
	Total Aerobic Plate Count	ISO 4833-1:2013
Liquid Effluents	None	Vol. 3. Multiple Tube
	Magnesium	Absorption Spectrometry
	BOD	JKM E 0118 based on APHA 5210 B 5
	Magnesium	JKM E 0116 based on APHA 3500 -"

Schedule

Issue date: 25 March 2025
Valid Until: -



NO: SAMM 136

Page: 27 of 35

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	None	Determination of Mercury by Cold
Microbiology	None	None
	None	None
	None	None
	None	None
	E.coli / Coliform	Petrifilm E.coli / Coliform Count Plate (AOAC
	Antibody Identification	None
Non-alcoholic Beverages, Seri Kaya	Petrifilm Staph Express count (STX) plates	Petrifilm staph Express Count (STX) Plates AOAC, Edition, 2005
Oyster Sauce, Non-alcoholic	None	Petrifilm AOAC 2000 17.3.04
Potable Water, Surface	Colour	APHA 2120 B
	BOD	APHA 5210B 5 Day BOD Test
	Coliform and Faecal Coliform	JKM M 2031H
	Anions (F, Cl, NOs, SOs, POs)	APHA 4110 B -" Ion Chromatography
	BOD five days	APHA 5210 B. 5 Day BOD Test.
Treated Water	Detection and enumeration of Coliform Bacteria & Escherichia	JKM M 2036 based on ISO 7899-In-house Method
	None	None
	Coliform & Escherichia Coli	APHA, Part 9222A, Edition,
	Chlorine -" Total	HACH 8167 and HACH 10070,
	Phosphate	None
	None	None
	Ammonia	Selective Electrode Method
	Total Dissolved Solids as Sodium Chloride	In-house Method, AIR 001 based on Orion Star A112 Conductivity Meter Instruction Manual
	Detection and Identification of	JKM M 2032 (Membrane Filter
	None	None
	None	None
	None	None
	Detection and Identification of	JKM M2032, Membrane Filtration
	pH	HACH Method (Senslon + pH1)
	Aluminum	HACH Method No . 8326
	Detection of Coliform	Colilert Method (IDEXX)
	Copper (Cu)	None
	Aluminium as Al	None
	Potassium as K	None
	Chloroform	None
	Sulfotep	None
	Aplha-lindane	None
	2-Methylnaphthalene	2008) (GCMS)
	2-Chlorobiphenyl	525.3(GCMS)
	n-Nonacosane	None
	None	None
	Escherichia coli	APHA 9221G.2; 2017 (MPN
	(Clostridia) (100 ml)	None

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Schedule

Issue date: 25 March 2025
Valid Until: -



NO: SAMM 136

Page: 28 of 35

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	None	None
	Free Chlorine, High Range	HACH Method No . 10069
	Turbidity	APHA 2130 B
	pH	APHA 4500 - H*B
	Color	HACH Method No. 8025
	Chlorine, Free	HACH Method No. 8021
	Free Chlorine, High Range	HACH Method No. 10069
	Simultaneous Detection of Total	APHA 9223 B
Water	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
	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

Schedule

Issue date: 25 March 2025
Valid Until: -



NO: SAMM 136

Page: 29 of 35

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

Schedule

Issue date: 25 March 2025
Valid Until: -



NO: SAMM 136

Page: 30 of 35

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

Schedule

Issue date: 25 March 2025
Valid Until: -



NO: SAMM 136

Page: 31 of 35

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	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
	None	None
	Determination of pH	APHA 4500-H* B, 2005
	Determination of chloride	APHA 4500-Cl 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.	AS/NZS 3896:2008
	pneumophila	None
	Staphylococcus aureus count	APHA 9213 B (2017)

Schedule

Issue date: 25 March 2025
Valid Until: -



NO: SAMM 136

Page: 32 of 35

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

Schedule

Issue date: 25 March 2025
Valid Until: -



NO: SAMM 136

Page: 33 of 35

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

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NO: SAMM 136

Page: 34 of 35

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

Schedule

Issue date: 25 March 2025
Valid Until: -



NO: SAMM 136

Page: 35 of 35

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	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, Groundwater	None	218 Edition (2005) Visual Comparison
	None	None
	None	with Chemically Suppression of Eluent

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