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LABORATORY LOCATION/ CENTRAL OFFICE:	Bio Synergy Laboratories Sdn. Bhd., PJ No. 43, Jalan SS 22/23, Damansara Jaya, 47400 Petaling Jaya, Selangor , 14007, SELANGOR MALAYSIA
	
ACCREDITED SINCE :	06 APRIL 2025
FIELD(S) OF TESTING:	CHEMICAL MICROBIOLOGY

This laboratory has demonstrated its technical competence to operate in accordance with MS ISO/IEC 17025:2017 (ISO/IEC 17025:2017).

This laboratory's fulfillment of the requirements of ISO/IEC 17025 means the laboratory meets both the technical competence requirements and management system requirements that are necessary for it to consistently deliver technically valid test results and calibrations. The management system requirements in ISO/IEC 17025 are written in language relevant to laboratory operations and operate generally in accordance with the principles of ISO 9001 (see Joint ISO-ILAC-IAF Communiqué dated April 2017).

CENTRAL LOCATION:	Bio Synergy Laboratories Sdn. Bhd., PJ No. 43, Jalan SS 22/23, Damansara Jaya, 47400 Petaling Jaya, Selangor , 14007, 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
(palm Oil And Its Products)	Volatile Matter	None
(pome), Rubber Effluent, Water And Waste Water	Mixed Liquor Volatile Suspended Solid (MLVSS)	In-house method CCW-21 based on APHA 2540 E
And Hand Using Swab	Salmonella	None
Animal Feed	None	None
	None	None
	None	None
	None	None
	None	None
	Salmonella sp	OIE Manual of Diagnostic Tests &
	Crude Fat	MS 1416 : 1997
	Protein Content	AOAC Official Method 2001.11

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	Moisture	MS ISO 6496:2003
	Protein (Crude)	AOAC 2001.11
	Crude Ash	ISO 5984:2022
	Crude Protein and Total	ISO 1871:2009
Animal Feed E	None	None
Beverages Products	None	None
	None	None
	None	None
Birdnest And Its Product	Calcium	and USEPA 3050 B by ICP-OES
Birdnest And Its Product Meat And Poultry Products	Arsenic	In-house method CCF-37 based on
Boiler Water	None	None
	None	None
	Antimony	None
	filtration)	None
	None	None
	e Aluminium	None
	None	None
	Phenolphthalein Alkalinity as	APHA - 2320B
	Cyanide as Cn	APHA - 4500CN-C8&D or C&F
	None	None
	None	None
	None	None
	None	APHA 9221 F, 22" Edition (2012)
	None	None
	Total Dissolved Solids	APHA 2540 C, 2017
	Acidity	APHA 2310. B
	Acidity	APHA 2310. B
Capsule (hard/soft) E	None	None
Capsule (hard/soft) Tablet Oil & Cream Pill	Bile-tolerant Gram Negative Bacteria i) Qualitative ii) Quantitative	BP 2019, Appendix XVI B
Cereal Food	Yeast and Mould Counts	AOAC Official Method 2014.05 (3M
	None	None
Cereal, Flour &	None	None
Cereal, Flour & Confectionery Food Supplements Meat, Poultry & Derived	Total Dietary Fibre	AOAC Method 985.29 with Megazyme Total Dietary Fiber Assay Procedure (21* edition, 2019)
Cocoa And Cocoa Products	Mercury	In-house method CCF-04, based on AOAC 971.21 and APHA 3120
	Arsenic	In-house method CCF-05, based on
	None	Based on MS 1194:1991 and Food
	Energy (kcal/100g or/and	In-House Method CLWI-TEC-F024
	None	None

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	None	None
	None	None
	None	None
	None	1985
	None	& Analysis of Foods, 1991
	None	None
	None	F038 by HPLC with
Coffee	Calcium	None
	None	Petrifilm)
	Enterobacteria counts	ISO 21528-2:2017
	None	None
	None	None
Condiments	Ochratoxin A	In-house Method, Ref. No. MOH:
	None	None
	None	None
	None	None
	None	method)
	None	Food Regulations 1985
	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
	None	None
	None	None
	None	None
	None	Derivatisation
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
Confectionery	None	None
	None	None
	None	None
	Sorbate/ Potassium Sorbate)	None
	None	None
	None	None
	None	None
	None	None

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	None	None
	Cholesterol	Based on Elsevier -" Journal of
Contact Method	None	None
Cooling Tower Water	None	None
	None	None
	Potassium	None
	Escherichia coli (Membrane	APHA 9222 G
	None	None
	None	None
	Metals/Minerals	APHA 3120 B & 3030 F
	None	None
	Total Alkalinity as CaCO ₃	APHA - 2320B
	None	None
	Arsenic as As	USEPA 6010D (ICPOES)
	None	None
	None	None
	Emission Spectroscopy:	None
	Temperature	APHA 2550 B, Edition
	None	None
	None	Edition
	Total Escherichia coli Count	APHA 9221 F (MPN), 24' Edition
	None	None
	None	None
Cosmetic Products	Pseudomonas aeruginosa	BP 2019, Appendix XVI B
	Total Combined Yeast & Mould	BP 2020, Appendix XVI B
	Detection of porcine DNA	JKM B 0312 -" Detection of porcine
Cosmetics & Essential	Metals/Minerals	In house method CCP-01, based on
Dairy Products,	None	None
	Total Aerobic Plate Count	ISO 4833-1:2013
Derived Products	None	None
	None	(2000)
	Cholesterol	In-House Method CCF-24 based on
	None	None
	None	None
	None	None
	Ash	In House Method 102 Based on AOAC
	None	None
	None	None
	Mercury	In-house Method, WI/JC-LAB/042,
	None	AOAC 975.03 (2006) / USEPA 6010B
	None	Methods of Analysis for Nutrition
	None	LC/MS/MS

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Nitrofurantol Metabolites (AMOZ, AHD, AOZ, SEM)	In House Method Based on Agilent Application Notes: ESI LC/MS/MS
	None	None
	None	None
	None	None
	None	None
	Detection of	MY/STP/365 using real PCR
	Vitamin B3 (Nicotinic acid and	In-house method, SGS-TM-FOOD-
	None	None
	Aflatoxin B2	F028 based on 990.33
	None	None
	None	None
	None	None
Distilled Demineralized	Cholesterol	None
	None	None
	Magnesium	None
	None	None
	Turbidity	APHA 2130 B
Edible Fats, Oil & Their	Coliform Count	APHA 9222 B, 22" Edition (2012)
	Arsenic	None
	Chromium	None
	Determination of Moisture and	MPOB p2.1 Part 1
	Polychlorinated Dibenzo-p-	EPA 8290 -" High Resolution Gas
Edible Oil	Determination of Aflatoxin	In-house method JKM F 0407 based
	Total Aflatoxin	In-house method SGS-TM-AGR-
	Determination of Acidity	MPOB p2.5
	Determination of DOBI	MPOB p2.9
	Determination of Iodine Value	MPOB p3.2
Edible Oil (palm Oil And Its Products)	Determination of Total Fatty Matter (TFM)	MPOB p3.7
	Determination of Lovibond	MPOB p4.1
	2-MCPD, 3MCPD Fatty Acid Esters and Glycidol Esters	AOCS Cd 29a-13 (revised 2017)
	Trace Elements	In-House Method CCF-29 based on
	Peroxide Value	AOAC 965.33
Edible Oil And Fats		2013.05(2013) and AOAC 994.08
Edible Oil, Fats And E	None	None
Edible Oils, Fats And Their	None	None
	None	None
	None	None
	Acid Value	AOCS Cd 3d-63
	Iodine Value	AOCS Cd 1b-87
Egg & Egg Products E Frozen Products (processed Food)	None	None
	Sugar (Fructose, Glucose, Sucrose, Maltose, Lactose)	GB 5009.128-2016 In-House Method CCF-23 based on GB 5009.8-2016

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Egg And Egg Products	None	None
	Crude Fibre	In-House Method CLWI-TEC-F003
	Carbohydrates (kcal/100g	Food Regulations 1985
	None	on AOAC? 994.10
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
Environmental Monitoring	Aluminium	USEPA 6010 D (ICP OES)
	None	None
	Nitrate (as NO ₃ - or	APHA E
	None	None
	Fluoride	APHA & D
	Colour (True & Apparent)	APHA 2120 C
	Total Coliform Count (TCC)	APHA 9221 B
	Total Nitrogen	In-house test method MKA TMO3 by TOC/TN Analyzer
	None	None
	Total Solid	2540 B
	None	None
	None	None
	None	None
	pH value	APHA 4500-H* B Electrometric
	None	None
	None	None
	Particulate Matter	MS 1596: 2003 Determination of
	Heavy Metals:	None
	None	None
	None	None
	Moisture	(i) Gravimetric Method: BS:EN
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	Metals	In-house Method PCL-HMW-01
	None	None
	None	None
	Turbidity	APHA 2130 B, 2005
	Turbidity	APHA 2130 B, 2005
	Biochemical Oxygen Demand	APHA 5210 B & C, 2005
	Biochemical Oxygen Demand	DOE 2019, Reference Method,
	pH	APHA 4500 H*B, 2005
	Metals by ICP	None
	Metals by ICP	None

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

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	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
Environmental Monitoring Palm Oil Mill Effluent	Mixed Liquor Suspended Solid (MLSS)	APHA 2540 D
Environmental Testing Enumeration Of Microbial E Count In The Air Using An Open Plate (sedimentation Method) Enumeration/detection Of Microbial Count On	Total Plate Count Yeast e Mould e Aerobic Plate Count Yeast Mould Staphylococcus aureus Coliform	Compendium of Methods for the Microbiological Examination of Foods, Chapter 3, 4th Edition (2001)
Feed	None	None
	Moisture	MS ISO 6496 : 2003
	Energy/Calories	Method of Analysis for Nutrition
	Determination of Chloramphenicol	In-house method JKM F 0609 based
	None	None
Feed Product	Antimony	None
Feed Products	None	None
	None	None
	None	None
	None	None
Fertilizer	None	None
	Moisture	n-house Method PBL/LTM/F1,
	Total Nitrogen	In-house method F05 based on MS ISO 13878: 2014
	Determination of Moisture	MS 417: Part 2: Clause 3, Method :
	Total Magnesium as MgO	In-House No. FT02 (Based on
	None	None
	Determination of Phosphorus,	In-House Method, TM-02
	Total Nitrogen (as N)	In-house Method, Ref. No. F2, based
Fish And Fish Products	None	None
	None	None
	None	Based on 962.09, ISO? 1736
	or/and kJ/100 g)	None
	None	None
	None	923.03 19" Edition 2012
	Total Coliform & E.coli	AOAC 19th Edition 2012, 2005.03
	None	None
	None	None

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	Benzoic Acid	EUPGFD.SOP.TM.CHEM.02 based
	None	EUPGFD.SOP.TM.CHEM.12 based
	None	None
	None	None
	None	None
	Sulphamerazine	Food Analysis by HPLC edited by
	Oxfendazole	In-House Method, Ref. No.
	Total Plate Count	In-house method LWM 3 based on
	Determination of Inorganic	JKM F 0510 In-house Method based
	None	None
	None	None
	Carbohydrate	Labeling, AOAC: 1993 and Food
	None	None
	Chlortetracycline	by UHPLC
	None	In House Method MY/STP/179
	Nitrofurantol metabolites	In-house method SGS-TM-FOOD-
	Biogenic Amines	In-house Method Ref. No. MOH:
	Putrescine	In-house Method, Ref. No, MOH:
	Danofloxacin	In-House Method, Ref. No. MOH:
	Pesticide Residues: Alpha-BHC Gamma-BHC Delta-HCH	In-house method, Ref. No. MOH: F03-009-Determination of Pesticide Residues in Fish, Meat, Poultry and Its Products using QUEChERS Method by Gas Chromatography.
	Benzimidazole:	In-house Method, Ref. No. MOH
	None	Microwave Digestion, ICP-OES
	Histamine	In-house Method LWI-TEC-
	None	None
	Tin	None
	None	None
	None	None
	Yeast and Molds Count	(3M-,¢ Petrifilm-,¢ Rapid Yeast
	Formaldehyde	In-house Method, Ref. No. MOH
Fish Products	None	None
Fish/crustaceans And	None	None
	Listeria spp.	None
Fish/crustaceans And Molluscs	Bacillus cereus count	BS EN ISO 7932:2004
Flour & Confectionaries	Copper	None
Flour & Confectionery Dairy Products Edible Oils, Fats And Their	Staphylococcus aureus counts	AOAC Official Method 2003.11, 2003.07, 2003.08 (3M Petrifilm)
Flour & Confectionery,	None	None
Flour And Confectionery	None	None

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	Ash	In-house method CCF-09, based on
	None	and Pearson-™s Composition &
	None	None
	Propionic Acid	In-House Method CLWI-TEC-F012
	None	None
	None	None
	None	based on MS 1435:1998
	None	None
	Multiresidue Pesticides	In-house No. G32 based on AOAC
	None	980.13
	None	None
	Cholesterol	based on AOAC 994.10 Edition
	None	F019 based on FDA Method
	None	None
	Aflatoxin G2	None
	None	None
	None	None
	None	None
	None	(MPN & Spread Plate
	None	None
Flour, Cereal And Mile	None	None
Food	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
	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 /

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	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
	None	None

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	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
	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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	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-,¢

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	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)

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	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
	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 using 3M Petrifilm Aerobic Count Plate	AOAC Official Method 990.12
		None
		None
	Enumeration of Escherichia Coli in Food by using 3M Petrifilm	AOAC Official Method 991.14
		None
	Escherichia Coli/Coliform Count Plates	None
		None
	Enumeration of Coliform in Food by using 3M Petrifilm Escherichia Coli/Coliform Count Plates	AOAC Official Method 991.14
		None
		None
	Enumeration of Staphylococcus Aureus in Food by using 3M	AOAC Official Method 2003.07
		None
	Petrifilm Staph Express Count Plates	None
		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	AOAC Official Method of Analysis
	by using 3M Petrifilm Salmonella Express System	2014.1
		None
	Salmonella spp.	ISO 6579-1:2017
	Analysis of OrganophosphorusMethod: AOAC 2007.01	Analysis of Organophosphorus
	Analysis of Organophosphorus	
	Total Plate Count (TPC)	FDA Food and Drug =

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	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 Additives	Sodium	None
	None	Labeling, 1993 & Food Regulation
	Copper e	None
Food And Feed Products	Shigella Spp.	ISO 21567:2004
	None	None
Food And Feed Products Meat And	Vibrio parahaemolyticus	ISO/TS 21872-1:2007 (E)
Food And Feed Products Meat And Poultry Products	Clostridium botulinum	FDA BAM Chapter 17, 2001
	Listeria monocytogenes and	ISO 11290-1:2017
Food And Feed Products:	Aerobic Plate Counts	AOAC Official Method 990.12 (3M
Food Products	None	None
	Cadmium	In-house method CCF-35 based on
	Mercury	In-house method CCF-36 based on
	pH	SO 1842:1991
	Escherichia coli (MPN)	FDA-BAM Chapter 4 (2020)
	Determination of Fatty Acid	JKM F1003 based on AOCS official
	Determination of Total Fat	In-house Method JKM F1213,
	Total Dietary Fibre	AOAC 985.29 (Enzymatic-
	Saccharin	In-House No. FH15 (Based on
	None	In-House No. FHO3 (Based on BSEN
	Nitrate as	In-House No. F90 GB5009.33-2010
	Metal	In-House No.F88 (Based on
	Vitamin D3 (Cholecalciferol)	In-House No.FL 02

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	Total Aflatoxin	In-House No. M14 (Based on Direct
	Ochratoxin	In-House No. M17 (Based on Direct
	Vibrio cholera	In-house M54 Qualitative Detection using Real- Time PCR.
	None	based on USP 27
	None	In House Method MY/STP/369
	None	None
	None	None
	None	None
	None	011 Determination of
	Total Combined Yeasts/ Moulds Count	BP 2020/Volume XVI B
	Coliform Count	FDA BAM Chapter 4, 2020
	Bile-Tolerant Gram-Negative Bacteria	BP 2020/Volume XVI B
	Detection of Specific Microorganism	BP 2020/Volume
	Pseudomonas aeruginosa	XVI B
	Staphylococcus aureus	None
	Escherichia coli	None
	Salmonella spp	None
Food Products:	Benzoic Acid	In-house method CCF-01, Rev B,
	Metals/Minerals	In-house method CCF-03, based on
	Moisture	In-house method CCF-07, based on
	Aflatoxins B1, B2, G1, G2	In House method based on AOAC
	Determination of sodium chloride	In House Method CCF-32, based on
	Metals/ Minerals	In-house Method PCL-HMF-01
	Total Dietary Fiber	AOAC Method 985.29
	pH	In-house method PCL-FPH-01
Food Products: Coffee & Coffee Products E	Aerobic Plate Counts	ISO 4833-1:2013 (Pour Plate
	Caffeine content Coffee content	MS 1360:1994 (Appendices A and G)
Frozen Food	Iron	None
	Crude Fat	In-house method CCF-12, based on
	None	Petrifilm)
	None	None
	None	(3M-,¢ Petrifilm-,¢ Aerobic Count Plate)
	None	1985
	Lead e	None
	Sorbic Acid	based on Journal of
	None	None

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Sodium e	None
	None	18
	None	None
	None	None
	None	None
	None	2005. Page 393-397
	None	None
	None	None
	None	AOAC 931.04 (2005)
	None	None
	None	None
	Vitamin D3 (cholecalciferol)	None
	None	None
	Standard Plate Count	AS 5013.1 -" 2004
	None	None
	None	None
	None	None
Fruit And Vegetables	None	None
Fruit And Vegetables Flour, Cereal And Mile	Campylobacter spp. (inclusive	ISO 10272-1:2017
Fruit Drink & Juice	None	None
Fruits And Vegetables	None	None
	Organophosphorus and organochlorine pesticides (Screening) (Refer to Appendix 12 for the list of compounds)	In house method, SGS-TM-FOOD-076 with reference to RSTS-FD-PT- 010
	Organophosphorus Pesticide:	In-house method, Ref. No. MOH:
	Pesticide Residues:	In-house method, Ref. No. MOH:
	Organophosphorus Pesticide	In-house method, Ref. No. MOH: F03-
	Organophosphorus :	In-House Method, Ref. No. MOH:
	4,4-DDD	In-House Method, Ref. No. MOH:
	9) Trichlorfon 10) Parathion	Chemistry, 131 (2012): page 611-616, GC/GCMS.
	4) Gamma HCH 5) Delta HCH	None
	Determination of Organochlorine Pesticide Residues in Fruits and Vegetables by GC-yECD:	FQL-TM-PR101. In-House Method based on Journal of Environmental Science and
	Vegetables by GC-yECD:	Health Part B (2007) Modified QuEChERS Method.
	Aldrin	None
	Alpha Endosulfan	None
	Alpha HCH	None
	Beta Endosulfan	None
	Chlordane	None
	Chlorfenapyr	None
	Chlorpyrifos	None
	Chlorothalonil	None
	pp-DDD	None

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	10 op-DDE	None
	11 pp-DDE	None
	12 op-DDT	None
	13 pp-DDT	None
	14 Delta HCH	None
	15 Dieldrin	None
	16 Endosulfan Sulfate	None
	17 Endrin	None
	18 Hexachloro Benzene (HCB)	None
	19 Heptachlor	None
	20 Heptachlor Endo Epoxide	None
	21 Lindane	None
	22 Methoxychlor	None
	23 Mirex	None
	24 Metolachlor	None
	25 Quintozene	None
	Determination of Synthetic Pyrethroid Residues in Fruits and Vegetables by	FQL-TM-PR102. In-House Method based on Journal of Environmental Science and Health Part B (2007)
	Vegetables by	Modified method.
	Beta Cyfluthrin	None
	Bifenthrin	None
	Cypermethrin	None
	Deltamethrin	None
	Fenvalerate	None
	Lambda Cyhalothrin	None
	Permethrin	None
	Determination Fungicide in Fruits and Vegetables by	FQL-TM-PR103. In-House Method based on Journal of Environmental Science and Health Part B (2007)
	and Vegetables by	Modified QUEChERS method.
	1 Trifloxystrobin	
	Dithiocarbamates (expressed as Synthetic Pyrethroid (4 analytes)	In-house Method, Ref. No. MOH
Hard Gel Capsule E	Mercury	None
Herbs And Spices	None	None
	None	None
	None	None
	None	None
	None	None
Herbs Spices	Tin	None
High Protein And Starch	None	None
Industrial Effluent	Temperature	APHA 2550 B
	None	None
	Arsenic	None
	None	None
	Conductivity	APHA 2510 (APHA Method Ed. 2005)

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	None	None
	Heavy Metal (Cu, Cd, Fe, Pb)	APHA 3111 B
	None	(based on MN Method 985026,
	(COD)	None
	Lead (Pb)	None
	None	None
	Metals by ICP	APHA 3120 B
	None	None
	None	2540D&E
	Aluminium, Al Chromium, Cr	None
	Fluoride	APHA 4500-F- D
	Fecal Coliform Rapid Detection	APHA 9211 B
Industrial Water	Calcium	None
	Total Suspended Solid	APHA 2540 D
	None	None
	Chemical Oxygen Demand	APHA 5220 B
Industrial Water Distilled	Turbidity	APHA 2130 B
Demineralized	Nitrate Nitrogen	HACH Spectrophotometer Method
Infant Food And Dairy E	(NaCl) in food and animal feed	GB 5009.44 - 2016 (Mohr method)
Jelly Products	Cadmium	None
Juice	Lead	AOAC 999.11 and APHA 3120
	None	None
Juice E	None	MS ISO 6496 : 2003
Liquid Waste	Corrosivity (pH)	APHA 4500-H+ B (pH meter), 2017
	Flash Point	ASTM D 93-16
	Heavy Metals:	None
	pH	APHA 4500-H* B, 2005
	None	In House Method MY/STP/121
	Calorific Value	ASTM D 5468
	Sulphur	ASTM D 1552 A
	Total Chlorine, Water Soluble	In-House Test Method LMS Method
	Chloride and Water Insoluble	004 (Adapted from ASTM E 776)
	Chlorine	None
	Viscosity, Brookfield	ASTM D 2196 Method A
	Flash Point	USEPA SW 846
Meat	ether extract in meat	None
	Ash	AOAC 920.153
	None	None
Meat And Bird Nest	Nitrite and Nitrate	GB 5009.33-2010
Meat And Meat Products	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	981.12 & 943.02

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Glucose	None
	None	None
	None	None
	None	based on Bacteriological Analytical
	Nitrofurantoin Metabolites	In-House Method, Ref No
	Sulphadiazine	Leo M.L Nolleti, Liquid-Liquid
	Total Plate Count	In-house method LWM 3 based on
	Total Plate Count	In-house method LWM 3 based on
	Beta Agonist	In-House No. M18 (Based on Direct
	Tetracycline	In-House Method SOP-0217-1021
	Moisture	AOAC 950.46
	Beta-agonist (B-agonist)	In-house method SGS-TM-FOOD-
	None	None
	Fat	In-house method, Ref. No. MOH:
	DNA Extraction	In-house Method, Ref. No. MOH G03-
Meat And Poultry	None	None
	Oxytetracycline	In-House No. M13 (Based on Direct
	Campylobacter spp.	AS 5013.6 ? 2004 / Detection
Meat And Poultry E	None	None
Meat And Poultry Products	Iron	None
	None	None
Meat, Poultry & Derived	None	AOAC 942.05
	None	HV/TM/BCLAB/001
	None	None
	None	None
	None	None
	None	None
	None	None
Medicine:	Arsenic	None
Milk And Milk Products E Edible Oil, Fats And E	Vitamin D	AOAC Method 2002.05 (21* edition, 2019)
Mineral Water	None	None
	None	None
	Aluminium	None
	None	None
	None	None
	None	None
	None	None
	None	None
	Total Dissolved Solids	APHA! 2540 C
	None	None
	e Barium	None
	None	None
	Cadmium (Cd)	None
	None	None
	(VOC as listed in Appendix 3)	Spectrometry

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	CaCO ₃	None
	Aluminium as Al	APHA - 3500Al-B
	Chromium as Cr	None
	None	None
	None	digestion
	Total Coliform (100 ml)	APHA - 9222B; 2017
	None	None
	Antimony as Sb	None
	Chromium Hexavalent	APHA 3500-Cr B
	None	None
	None	None
	Hexavalent Chromium	APHA 3500 Cr B, Edition
	Chloride	APHA 4500-Cl B, Edition
	Fluoride as F	Ion Chromatography with Chemical
	None	None
	(Monochloramine and	None
	None	None
	None	None
	Alkalinity	APHA 2320 B, 2017
	Free Carbon Dioxide	APHA 4500-CO ₂ C, 2017
	Sodium (Na)	APHA 3120 B 2017
	None	None
	None	None
	Dieldrin	None
	None	None
	None	None
	None	None
	None	None
	Aluminum as Al	None
Molluscs	None	None
	None	None
	None	None
Non-alcoholic Beverages E Fruits & Vegetables & E	Sorbic Acid	based on Journal Chromatography A, 1073 (2005) 393-397
Nuts	None	None
	None	None
	Total Aflatoxin (B1, B2, G1, G2)	In-House Method SOP-0117-1034
Nuts And Nut Products	None	None
	None	None
	None	FDA's Bacteriological Analytical
	aureus	FDA's Bacteriological Analytical
	None	None
	None	None
	None	None

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Nuts, Fruit, Vegetables & Derived Product Non-alcoholic Beverage Juices Cocoa & Cocoa Products	Fatty Acid Composition Saturated Fat Monounsaturated Fat Polyunsaturated Fat Trans Fat	In-House Method CCF-26 based on AOAC 996.06 and MPOB p3.5 (AOAC 21* edition, 2019, MPOB 2005)
Oil & Cream E	None	None
	Enterobacteria and Certain Other Gram-Negative Bacteria	BP 2019, Appendix XV! B
Oils: Cosmetics And E	e Lead e Cadmium	BP 2013, Vol. IV, Appendix VII and APHA 3120
Pharmaceutical	Cadmium	In-House Method CCP-10 based on
	Mercury	None
	Total Microbial Aerobic Count	BP 2019, Appendix XVI B
	None	None
	Bacterial Endotoxin Test	Kinetic Chromogenic Method
	None	None
	None	None
	None	None
	Total Viable Aerobic Count	BP 2007 Appendix XVI B.2 (Count)
	None	None
	Metals	In-house Method LWI-MFF
	Arsenic	In-house Method LWI-MPH
	Total Aerobic Microbial Count	XVI B
Pharmaceutical Products / Traditional Products / Food	Lovastatin	QB/T 2847-2007
Pill E	None	None
Potable And Domestic E	Cadmium	None
	(Membrane filtration)	None
Potable And Domestic E Water	Conductivity	APHA 2510 B
Poultry And Aquatic	None	None
Poultry Products	Vibrio cholerae detection	ISO/TS 21872-1:2007 (E)
Powder E	Lead	BP 2019, Vol V
	None	None
Product	None	None
	None	None
	None	Traceable to:
	None	Food Microwave Digestion
	Furaltadone (AMTZ)	None
	None	None
	Boron	None
	Nitrite	based on AOAC 973.31, 17" Edition
	None	None
	Detection	Method
	Fatigue Test	MS 146:2014 Clause 7.3.4
	c) X, Y, Z Direction	None
Products	Nickel	None

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	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
	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
	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
	None	None

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	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
	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
	None	None
	Coliform	FDA-BAM Chapter 4 (2020)
	Fecal Coliform	FDA-BAM Chapter 4 (2020)
	None	None

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	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
	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

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Endotoxin in Medical Devices	USP 29' Edition (LAL Gel Clot
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	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
	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
	None	None
	Aerobic Plate Count	None

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	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;
	Beta Tocotrienol, Gamma Tocotrienol,	70, No. 12, December 1993/HPLC
	Delta Tocotrienol)	None
	Phytosterols Content	None
	(Sitosterol, Stigmasterol)	EvTM_0008/HPLC
	Plant Squalene	None
	Solvent Residue	EvTM_0007/HPLC
	(Hexane, Ethyl Acetate, Methanol,	EvTM_0005/GC Headspace
	Isopropanol, Dichloromethane,	None
	Ethanol)	None
	Benzo A Pyrene	None
	Benzo A Pyrene	EvTM_0004, Based on AOCS Cd
	Moisture	21 - 91, 5 th Edition (2003)
	Moisture	AOCS Ca 2e - 84, Edition
	Mixed Carotene	(2003)
	Mixed Carotene	None
	Solvent Residue	EvTM_0150/HPLC
	(Hexane, Ethyl Acetate, Methanol,	EvTM_0151/GC-HS
	Isopropanol, Dichloromethane,	None
	Ethanol)	None
	Moisture	None
	Moisture	AOCS Ca 2e - 84, Edition
	None	(2003)
	2,6-Di-Tert-Butyl Hydroxytoluene	None
		EvTM_0049/GC

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	Tocotrienol, Beta Tocotrienol, Gamma Tocotrienol, Delta Tocotrienol)	1993/HPLC
	Benzo A Pyrene	None
	Mixed Carotene	None
	Mixed Carotene	EvTM_0114, Based on AOCS Cd 21-91, 5th Edition (2003)
	Lycopene Content	EvTM_0115/HPLC
	Plant Squalene	EvTM_0116/UV-VIS
	Phytosterols Content (Sitosterol, Stigmasterol)	EvTM_0118/UV-VIS
	Solvent Residue (Hexane, Ethyl Acetate, Methanol, Isopropanol, Dichloromethane, Ethanol)	EvTM_0124/HPLC
	Moisture	EvTM_0125/HPLC
	Moisture	EvTM_0126/GC HS
	Total Aerobic Microbial Count	None
	Total Combined Yeasts/ Moulds Count	None
	Coliform Count	AOCS Ca 2e - 84, Edition (2003)
	Bile-Tolerant Gram-Negative Bacteria	XVI B
	Detection of Specific Microorganism	BP 2020/Volume
	Pseudomonas aeruginosa	XVI B
	Staphylococcus aureus	FDA BAM Chapter 4, 2020
	Escherichia coli	BP 2020/Volume
	Salmonella spp	XVI B
	Total Aerobic Microbial Count	BP 2020/Volume
	Total Combined Yeasts/ Moulds Count	XVI B
	Coliform Count	XVI B
	Bile-Tolerant Gram-Negative Bacteria	FDA BAM Chapter 4, 2020
	Detection of Specific Microorganism	BP 2020/Volume
	Pseudomonas aeruginosa	BP 2020/Volume
	Staphylococcus aureus	XVI B
	Escherichia coli	None
	Salmonella spp	None
	None	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

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Free Fatty Acids	None
	Moisture and Volatile Matter Hot Plate Method	AOCS Ca 2b-38 (1997)
	Insoluble Impurities	None
	Iodine Value of Fats and Oils	AOCS Ca 3a-46 (1997)
	Cyclohexane-Acetic Acid Method	None
	Slip Melting Point	AOCS Cd 1d-92 (1997)
	AOCS Standard Open Tube Melting Point	None
	Color	AOCS Cc 3-25 (1997)
		None
		AOCS Cc (1997)
Products Cocoa And Cocoa Products	Crude Fiber	In-house method CCF-13, based on MS ISO 6865 : 2003
Products Egg And Egg Products	Salmonella detection	AOAC Official Method 2014.01 (3M Petrifilm)
Fruits And Vegetables		
Products/traditional	None	None
Products/traditional Medicines: Powder	Total Combines Yeast & Mould Count	BP 2019, Appendix XVI B
Raw Meat And Processed	Determination of fat (crude) or	AOAC official method 960.39 (Part A)
Ready To Eat Products	None	None
	None	None
Ready To Eat Products, Ready To Eat Savouries	None	None
	None	None
Reverse Osmosis Water	None	None
	None	None
	Zinc	None
	(Membrane filtration)	None
	Zinc	3120 B
	None	None
	None	None
	None	None
	None	Endotoxin Test
	None	None
	250mL	(Enumeration)
	None	APHA 9221 B, Edition (2012)
	None	None
	Free, Combined and Total Residual Chlorine (DPD)	In-House Method 0501 based on Palintest Comparator
	Total Alkalinity as CaCO ₃	APHA 2320 B
	None	None
	Copper Barium	APHA 3125 B (ICP-MS), 24" Edition
	None	APHA 4500 OG
	None	APHA 9222
	Streptococcus Count	(Membrane Filtration Method)
River Water	None	None

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	None	None
	None	None
	None	None
	Colour ADMI	APHA 2120 F
	Fecal Coliform	APHA 9221 E
	Escherichia coli (Membrane Filter Technique)	APHA 9222 G, Edition, 2005
	Nickel (Ni)	None
	5 Days @ 20°C	23°4 Edition (2017)
	Iron (Fe)	None
	Conductivity	APHA 2510 B
	Temperature (in situ)	In House OEL ? SP/23-01 Based On
	Fecal Coliform	APHA 9222 D
	Colour	APHA - 2120B
	Sulphide	APHA - 4500S-F
	Metals:	APHA - 3120B; Inductive Coupled
	Metals:	USEPA 200.8(ICPMS)
	Nickel as Ni	USEPA 200.8(ICPMS)
	Anions:	APHA - 4110 B; Ion
	Trihalomethanes:	APHA - 6200 B (GCMS)
	Phorate	None
	Beta-lindane	None
	Free Carbon Dioxide	APHA-4500CO2-C
	Acenaphthene	None
	Trichlorophenoxypropionic Acid)	University of Technology (HPLC)
	n-Hentriacontane	None
	Heterotrophic Plate Count (35°C)	APHA - 9215B; 2017 (Pour Plate
	None	None
	Uranium (U)	In House Method 0582 based on
	Oil and Grease (Emulsified	APHA 5520 B & F, 2017
	None	None
	Total Phosphorus	USEPA Method 200.7
	Total Phosphate	USEPA Method 200.7
	None	None
	Enumeration of Escherichia coli	APHA 9221 G
	Standard Total Coliform	APHA 9222 B
	Colour (ADMI)	APHA 2120 F, 24" Edition
	Petroleum Hydrocarbon (C6-C10)	In-house method SGS-TM-ENVI-S- 001 (Solvent Extraction / Purge-and- Trap GC-MS)
	None	018 based on APHA 9222 B (Membrane Filtration)
	Sulphite -" Reducing Anaerobes	ISO 6461/2:1986 (Membrane
	Total Coliform Count	APHA 9222 B
	Total Dissolved Solid	APHA 2540 C
	Barium as Ba	None
	None	None

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	None	None
Sauces	None	None
	None	None
	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
Sauces, Herbs, Spices &	None	None
	None	None
	None	None
	None	None
	None	None
Sauces, Herbs, Spices & E Condiments Non Alcoholic Beverages	Protein / Nitrogen	In-house method CCF-06, based on AOAC 2001.11, ISO 1871 : 2009
Seafood	Zinc	None
	None	None
	None	None
	Tin e	None
	None	None
	None	None
	None	None
	None	None
	None	None
	Fluoroquinolone and Quinolone:	In-house method, SGS-TM-FOOD-
	Salmonella spp.	None
Seafood Sauces Fruit Drink & Juice	E. coli Coliform Count	AOAC Official Method 998.08 & 991.14 (3M Petrifilm)
Soft Gel Capsule E	None	None
Solid Fertilizer And Liquid	Total Nitrogen	MS 417: Part 3: 1994
Solid Waste	Corrosivity (pH)	USEPA 9045 D (pH meter), 2004
	Arsenic, As	None
	Water Content	In-House Test Method, 5E-A-LBTM-
	Toxicity Leaching Characteristic	EPA 1311
	None	None
	(SGT-HEM; Non-Polar Materials)	1998) & 1664 Revision A (February 1999)
	Total Petroleum	In House Method 0539 based on
	pH	USEPA 9045D, Revision 4 (2004)
	Flash Point	In House Method MY/STP/12 Based on ASTM D93-12
	Particle Size	In House Method MY/STP/344 Based on ASTM D1921-06

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Total Organic Carbon	In house Method MY/STP/364 Based on Walkley Black Method
	Toxicity Characteristic - leaching toxicity characteristic	In-house method, CL-TM-02-034, based on EPA SW 846, 1996
Solid Waste And Liquid Waste	Antimony Arsenic Barium	USEPA 3050 B (Acid Digestion)
Spices And Condiment	None	None
Sugar And Its Product	Ash	MS 81 : Part 2 : 1993
	Zinc	Science and Technology (2016) 7:6
Supplement	None	USEPA 3050B
	Potassium	None
	L-Glutathione	In-house method CCP-03 based on
Surface Area, Equipment	None	None
Surface Water	E. Coli e	None
	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
	None	None
	None	Method Edition (2005)
	Alkalinity	APHA 2320 B Titration Method 21s
	None	Method by Discrete Analyzer
	Caustic Alkalinity as CaCO3	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 COz D, 2017
	None	None
	None	APHA 2550 B, 2017
	Chromium, Cr	None
	VOCs	EPA Method 5030B: 1996; EPA

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	None	None
	None	None
	None	(Membrane Filter Technique)
	None	None
Surface Water Mineral Water	Escherichia coli (MPN)	APHA 9221 F
Swimming Pool Water	None	None
	None	None
	Sodium	None
	None	None
	Nitrite Nitrogen	HACH Method 8507
	Color	APHA 2120 F
	None	None
	None	None
	None	Pour Plate Method
	None	Membrane Filter Method
	Cyanuric Acid	n House TM/W-055 method based on
	Staphylococcus aureus (Membrane	APHA 9212B.6 (2017)
	None	None
	Total Solids	APHA - 2540B
	Metal:	None
	Bromide as Br	None
	Resistivity	In-house Method SOP-0217-2036
	Total Chlorine as Cl2	APHA 4500-Cl G, 21st Edition 2005
	Biochemical Oxygen Demand @ 20 °C	APHA 5210 B
	None	None
	None	None
	None	None
	None	None
	None	None
Tablet E	Arsenic	None
	None	None
	None	None
Tea	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:
Toileteries	e Copper	None
Treated Water	None	None
	None	None
	None	None
	Detection and Identification of pH	JKM M2032, Membrane Filtration
		HACH Method (Senslon + pH1)

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	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 (Clostridia) (100 ml)	APHA 9221G.2; 2017 (MPN)
	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
Ultrapure Water	None	None
	None	None
	Copper	None
	None	None
	None	None
	Hardness	APHA 2340 B
	None	None
	None	None
	Color PtCo	APHA 2120 C
	None	(MPN Technique)
Ultrapure Water Swimming Pool Water	Standard total coliform (MPN)	APHA 9221 B
Vegetable And Pickled	None	None
Vegetable Products With	None	None
Vegetables Flour, Cereal And Mile Water	Clostridium perfringens count	ISO 7937:2004 (E)
	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

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	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-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.	AS/NZS 3896:2008
	pneumophila	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-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

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	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-"Ion
	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

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	Coliform	APHA 9221 B, Edition, 2005
	Heterotrophic plate count in	APHA Method 9215 D, Edition,
	None	None
	None	None
	pH Value	BS 1377-3 : 2018 Clause 12
	pH Value	BS 1377-3 : 2018 Clause 12
	None	None
	Calcium Hardness as CaCO ₃ ,	APHA 3500-Ca B, 2017
	Magnesium (by Calculation Method)	APHA 3500-Mg B, 2017
	Nitrate	APHA E, 2017
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	Aluminium	None
	None	None
	Organochlorine Pesticide	APHA 6630 B, Edition
	Ammoniacal Nitrogen	APHA F, 24" Edition
	Arsenic	APHA 3125 B, Edition
	Mercury	In-house method, SGS-TM-ENVI-003, based on APHA 3125 B
	2,4-dichlorophenoxyacetic acid (2,4-D)	In-house method, SGS-TM-02-045, based on Agilent Application Note 5991-5731 EN (LCMSMS)
	Heavy Metals by ICP-MS	None
	Endotoxin	Test for Bacterial Endotoxin, BP 2022
	pH	APHA 4500 H*B
	Oil & Grease	APHA 5520 B
	Color	APHA 2120 B
	Color	APHA 2120 F
	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

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	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
	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 :

Schedule

Issue date: 06 April 2025
Valid Until: -



NO: SAMM 724

(Issue 1, 06 April 2025 replacement of SAMM 724 dated 06 April 2025)

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Escherichia coli and Coliform	2010 (E) Milk Products -
	None	None
	None	None
	None	None
	None	None
Water Industrial Water Distilled Demineralized	Heterotropic plate count (Pour plate)	APHA 9215 B
Water Potable And Domestic E Water Industrial Water	Anions Fluoride, Chloride, Nitrate, Bromide, Nitrite, Sulphate, Phosphate	APHA 4110 B (22 nd edition, 2012)
Water:	Color PtCo	APHA 2120 C
	Copper (Cu)	None
	pH	APHA 4500-H* B
	Temperature	APHA 2550 B
	MLSS, MLVSS	In-house Method Based on APHA
	pH	APHA 4500 H+ B

SCOPE OF TESTING : MICROBIOLOGY

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