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NO: SAMM 137

LABORATORY LOCATION/ CENTRAL OFFICE:	Jabatan Kimia Malaysia Cawangan Bintulu Jalan Tun Razak Peti Surat 1346 97007 Bintulu, Sarawak , 97007, SARAWAK 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 Cawangan Bintulu Jalan Tun Razak Peti Surat 1346 97007 Bintulu, Sarawak , 97007, Sarawak
FIELD(S) OF TESTING :	CHEMICAL, MICROBIOLOGICAL

SCOPE OF TESTING : CHEMICAL

Material / Product Tested	**Type Of Test / Properties Measured / Range Of Measurement**	**Standard Test Methods / Equipment / Techniques**
Alcoholic Beverages	Ethanol	JAOAC, 66, 1152 (1983) Gas Chromatography
	Ethanol in Alcoholic Beverages	JKM K 0106 -" Gas Chromatographic Determination of Ethanol in Alcoholic
	None	STP/HA/02/Gas Chromatography
	None	None
	Determination of Ethanol in	In-House Method JKM K0106 based
	None	None
	Sulfur dioxide	In-house method
	None	Determination of Ethanol using
	Gas Chromatographic	JKM K 0106

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	None	None
	Ethanol	In-house Method C/FOD/030 based on Journal of Food and
	Copper, Selenium, Zinc and	In-house method LWI-TEC-
	Total Bacteria Count	FDA-™s BAM Chapter 3
	Clostridium perfringens	FDA-™s BAM Chapter 16
	Methanol & Ethyl Alcohol	MOH Determination of
Crude Palm Oil	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
	Iron (Fe)	In-house method (Ref. No. PP1) based on AOAC 10° 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" 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	MPOB p2.9 : 2004
	Determination of Iodine Value	In-house Method JKM K 0219
Environmental	None	None
	None	None
	Organochlorine and	In-house Method QWI-OG/17-052
	Mixed Liquor Suspended	In-house Method QWI-CH/17-079
	BOD3	In-house Method QWI-CH/17-045
	Total Hydrocarbon	n-house Method QWI-OG/17-018
	Carbon Dioxide	APHA 4500 COz2 D
	Acrylonitrile	In-house Method QWI-OG/17-013
	Absorbable Organic Halides (AOX)	In-house Method QWI-OG/17-057
	Bentazone	In-house Method QWI-OG/17-038
	Total Mercury	In-house Method QWI-CH/17-147

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Per- and Polyfluoroalkyl Substances	In-house Method QWI-OG/17-061
	Calorific Value	In-house Method QWI-CH/17-088
	Aluminium (Al), Antimony (Sb),	APHA 3120 B
	Microplastics	In-house Method QWI-OG/17-071
	Ether Oxygenates (MTBE, TBA,	In-house Method QWI-OG/17-027
	Benzene, Toluene, Ethylbenzene,	NIOSH 1501
	Ammonia	In-house method QWI-CH/17-129
	None	None
	Silver (Ag), Aluminum (Al), Arsenic	In-house Method QW I-CH/17-115
	Volatile Organic Compounds	In-house Method QWI-SP/21- 027
	Chemical Oxygen Demand	DOE Method (1985): 3° Edition
	None	None
	Turbidity	A. APHA METHOD 2130 B
	Conductivity	APHA Method 2510B
	None	None
	None	None
	None	None
	Listeria monocytogenes	HiMotility-„¢ Biochemical Kit
	pH	ASTM D 1293-18
	None	None
	pH	ASTM D 1293-18
	None	None
	None	None
	PH value at 25 °C	*APHA 4500-H* B, 2005
	Iron (as Fe), mg/L	*APHA 3111 B, 2005
	Oil and grease	*APHA 5520 B, 2005
	Turbidity	APHA 2130B, 2017
	Metals	APHA 3030 F and APHA 3120 B
	None	on APHA 9222 J
	None	on Colilert Test Kit notes, IDEXX
	None	None
	None	None
	Aerobic Plate Count	CMMEF Chapter 3; 1992 & FDA/
	None	None
	None	None
Ground And Treated Water	Lead, Cadmium, Manganase, Chromium & Iron	Acetylene Flame
Itk	None	None
Liquid Effluents Surface,	Metals: Copper, Zinc, Nickel,	APHA 3111B: AAS Direct Air-
Liquid Effluents, Potable	Sulphate	APHA 4500 E
Palm Kernel	Moisture and Volatile Matter	MPOB Test Method, k1.2:2004
	Oil Content	MPOB Test Methods, k1.3:2004
	Shell & Dirt	MPOBk1.1: 2004
	Shell and Dirt (Admixture)	MS 236: 1989, Appendix E
	Moisture and Volatile Matter	MS 236: 1989, Appendix D
	Free Fatty Acid (FFA)	MS 236: 1989, Appendix C
	Shell and Dirt (Admixture)	MS 236:1989, Appendix E

Material / Product Tested	**Type Of Test / Properties Measured / Range Of Measurement**	**Standard Test Methods / Equipment / Techniques**
	Determination of Moisture and	MPOB k1.2:2004
Palm Kernels Expellers	Shell Content	In-house JKM K 0001 Salamon & Seaber: The Grain & Food Trade
Palm Oil And Palm Oil Products	Colour	MPOB Test Method p4.1:2004
	Iodine Value	MPOB Test Method p3.2:2004
	Acidity (Free Fatty Acid)	MPOB Test Method p2.5:2004
	Saponification Value	MPOB Test Method p3.1:2004
	Volatile Matter	MPOB Test Method p2.1: Part 1: 2004
	Impurities	MPOB Test Method p2.2:2004
	Moisture Impurities	MPOB p2.1 Part 1:2004 MPOB p2.2:2004
	Acidity (Free Fatty Acid)	MPOB p2.5:2004
	Moisture and Volatile Matter Impurities	MPOB p2.1 Part 1:2004 MPOB p2.2:2004
	Free Fatty Acids Moisture and Volatile Matter Hot Plate Method	AOCS Ca 5a-40 (1997) AOCS Ca 2b-38 (1997)
	Insoluble Impurities	AOCS Ca 3a-46 (1997)
	Iodine Value of Fats and Oils Cyclohexane-Acetic Acid Method	AOCS Cd 1d-92 (1997)
	Slip Melting Point AOCS Standard Open Tube Melting Point	AOCS Cc 3-25 (1997)
	Color	AOCS Cc (1997)
Potable Water, Ground Water,	Hardness	APHA 2340C
Potable Water, Ground Water, Surface Water And Liquid Effluent	Acidity	APHA 2310 B Titration Method
	Carbon Dioxide	APHA 4500-CO2 C Titrimetric Method for Free Carbon Dioxide
	Alkalinity	APHA 2320 B Titration Method
	Oil & Grease	APHA 5520B
	Turbidity	APHA 2130B
Potable, Surface And	Coliform & Faecal Coliform	JKM-M2031
Potable, Surface And Ground	BOD 5 days incubation	APHA 5210B: 5-Day BOD Test and
Potable, Surface And Ground Water	Conductivity	APHA 2510B Laboratory Method (1995)
	pH	APHA 4500-H* B
	Chloride	APHA 4500-Cl B
Rubber & Palm Oil Effluent (prescribed Premises)	BOD 3 days incubation at 30 °C COD	Revised Standard Methods (1985) for Analysis of Rubber and Palm Oil Mill Effluent, Edition, 2019
Surface Water And Liquid Effluent (cont.)	Calcium	APHA 3500-Ca D
	Magnesium	APHA 3500-Mg E
Water, Surface Water And	None	Turbidimetric Method
Waters, Rainwater And Liquid Effluents	at 20 °C	APHA G: Membrane Electrode Method
	COD	APHA 5220B: Open Reflux Method
	Total Solids Dried at	APHA 2540B: Total Solids Dried

SCOPE OF TESTING : MICROBIOLOGY

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

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

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	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
	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

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

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

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

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	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	ISO 6888-1:1999/Amd.1:2003 (E)
	staphylococci	Method No: MOH KO3-105 (1)
	Vibrio Species other than cholerae	other than Vibrio parahaemolyticus
	Vibrio Species other than cholerae	and Vibrio cholera
	Vibrio Species other than cholerae	Method No: MOH KO03-111 (2)
	Vibrio Species other than cholerae	ISO 10272 -” 1: 2006 (E) 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)
	Camphylobacter spp	Horizontal Method for Detection and
	Camphylobacter spp	Enumeration of Listeria
	Listeria monocytogenes	Monocytogenes Part 2 = Enumeration Method, Amendment 1 :
	Listeria monocytogenes	Modification of enumeration Medium
	Listeria monocytogenes	Method No: MOH (1)
	Boric Acid	E03-003 The Determination of
	Water soluble synthetic food	Water Soluble Synthetic Food
	colour (see Appendix |)	Colour in Food by Paper
	colour (see Appendix |)	Chromatography and UV/ V15
	colour (see Appendix |)	spectrophotometer
	colour (see Appendix |)	In -” House Method, Ref. No. MOH
	Total Plate Count (TPC)	FDA Food and Drug =
	Determination of Boric acid in Food	FQL-TM-FA205 In-House Method
	by UV-Vis Spectrophotometer	based International Food on
	by UV-Vis Spectrophotometer	Research Journal 17: 1107-1112
	by UV-Vis Spectrophotometer	(2010)
	Total Plate Count in Food by	AOAC Official Method 990.12
	using 3M Petrifilm Aerobic Count	None
	Plate	None
	Enumeration of Escherichia Coli	AOAC Official Method 991.14
	in Food by using 3M Petrifilm	None
	Escherichia Coli/Coliform Count	None
	Plates	None
	Enumeration of Coliform in Food	AOAC Official Method 991.14
	by using 3M Petrifilm Escherichia	None

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Coli/Coliform Count Plates	None
	Enumeration of Staphylococcus	AOAC Official Method 2003.07
	Aureus in Food by using 3M	None
	Petrifilm Staph Express Count	None
	Plates	None
	Detection of Bacillus Cereus in	Compact Dry -œNissui-• Bacillus
	Food	Cereus
	Detection of Salmonella in Food	Bacteriological Analytical Manual,
	Detection of Salmonella in Food	Chapter 5, Salmonella
	Detection of Salmonella in Food	AOAC Official Method of Analysis
	by using 3M Petrifilm Salmonella	2014.1
	Express System	None
	Salmonella spp.	ISO 6579-1:2017
	Analysis of OrganophosphorusMethod: AOAC 2007.01 Analysis of Organophosphorus	Analysis of Organophosphorus
	Total Plate Count (TPC)	FDA Food and Drug =
	Aerobic Plate Count	AOAC Official Method 990.12 Aerobic
	Bacillus cereus	ISO 7932:2004 (E) Microbiology of Food
	Yeast and Mold	AOAC Official Method 2014.05
	Enumeration of	MOH Based on AOAC
	Enumeration of Mesophilic	MOH MMEF Part 4 Section
	Campylobacter spp	MOH (1): ISO 10272-
	Gram Negative Pathogens	In-house Method, Ref. No. MOH RO3-
	Boric Acid	In-house Method, Ref. No. MOH
	Water Soluble Colours	In-house Method, Ref. No. MOH
	Moisture	In-house Method Ref. No. MOH J03-
	Ash	MOH Determination Of Ash
	1) Antimoni	MOH The Determination of
	Water Activity	In-House Method MOH J03-049:
	Soluble Solid	In-House Method MOH J03-018:
	Mercury	In-House Method MOH H03-015:
	Acrylamide	In-House Method MOH NO3-015:
Food And Animal Feeding	Salmonella spp.	JKM-M3101
Ground Water	None	None
	Phenol	APHA 5530C
	None	WHO Guidelines for Drinking Water
	Suspended Solids (MLVSS)	None
	(Cd), Chromium (Cr),Cobalt (Co),	None
	None	None
	None	None
	None	None

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	None	None
	Clopyralid	None
	None	None
	None	None
	None	None
	None	Method K0102 (54.4)
	Cadmium	Japanese Industrial Standard
	None	based on Microtox -„¢ System
	None	Preliminary Distillation Step Nesslerization Method
	None	pH value
	Iron	APHA 3111 B
	Lead	None
	Beryllium	None
	Sulphate	None
	Bromodichloromethane	US EPA 5030C & 8260D (2017)
	None	None
	Iron, Chromium, Calcium &	Determination of Metals by Atomic
	None	None
	None	None
	Magnesium	JKM E 0403 based on APHA 3112 B:
	None	Quality, 1997 Vol. 3
	Color (Hazen)	In-house Method No: STP/Chem/W01 Based on Merck
	Determination of Total	APHA 2540D, edition 2005
	None	None
	None	None
	None	None
	Total Suspended Solids (TSS)	APHA 2540 D
	Free Chlorine	HACH 8021, 9 Edition (2014)
	Mercury (Hg)	In-House Method TM/WEP/012 based on Agilent Application Note
	Polynuclear Aromatic	USEPA 3510C
	Pseudomonas aeruginosa	APHA 9213 F
	None	None
	None	None
	None	None
	Tin	3120 B
	Magnesium	3120 B
	None	None
	Bacterial Endotoxins	BP 2018, Vol. XIV C, Method C:
	None	None
	pH	APHA 4500-H+ B
	None	None
	None	None
	Temperature	APHA - 2550B
	Fluoride as F	APHA - 4500F-B&D

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Cadmium as Cd	APHA - 3030 E & F (HNOs or HNOs-
	Barium as Ba	None
	Sodium as Na	None
	Nitrite as NOz	None
	Bromoform	None
	Dimethoate	None
	Gamma-lindane	None
	Acenaphthylene	None
	n-Dotriacontane	None
	(Refer Appendix II)	None
	Total Coliform	APHA - 9221B; 2017 (MPN Method)
	None	and APHA 3500 Cr B, Edition
	Acidity	APHA 2310 B, 2017
	None	None
	None	None
	None	None
	Bromate	S-170 & APHA 4110 B
	None	None
	Color (color units)	APHA 2120 C 2017
	Oil and Grease (Mineral)	APHA 5520 F, 2017
	Metals by Inductively Coupled Plasma	APHA 3120 B
	None	None
	Faecal Coliform	APHA 9222 D
	Lead	None
	None	None
	Endosulfan Hexachlorobenzene	None
	Cobalt	APHA 3120 B, Edition
	(Refer to Appendix 8 for the list of compounds)	Method 8260C: 2006
	BODs at 20°C	APHA 5210 B & G
	None	(Membrane Filtration Method)
	None	None
	None	None
Stuffs	None	Microbiology of Food and Animal
	None	None
Treated Water	Coliform Bacteria & Escherichia	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

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NO: SAMM 137

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