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LABORATORY LOCATION/ CENTRAL OFFICE:	Kota Kinabalu Laboratory, Petrotechnical Inspection (Malaysia) Sdn. Bhd. Lot 146, Jalan Papar Lama, Lok Kawi 88200 Putatan Sabah , 88200, SABAH 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:	Kota Kinabalu Laboratory, Petrotechnical Inspection (Malaysia) Sdn. Bhd. Lot 146, Jalan Papar Lama, Lok Kawi 88200 Putatan Sabah , 88200, 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
Effluent Water	pH Value	APHA 4500 H+
	Total Suspended Solids	APHA 2540 D
	BOD	APHA 5210 B
	COD	APHA 5220 D
	ICP (Pb, Fe, Ba, Mn)	APHA 3120 B
	Oil and Grease	APHA 5520 B
	Ammoniacal Nitrogen / Ammonia (as N)	APHA 4500-NHs B & C (Titrimetric Method)
	Fluoride	APHA 4110 B
	Nitrate Nitrogen	APHA 4500-NOs E
	Total Phosphorus	APHA 4500-P B & E
Formation Water	Density	ASTM D4052

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Conductivity	APHA 2510 B
	Salinity	APHA 2520 B
	Total Dissolved Solids	APHA 2540 C
	Total Suspended Solids	APHA 2540 D
	pH Value	APHA 4500 H+
	IC (Sulphate, phosphate)	APHA 4110 B
	Alkalinity	APHA 2320 B
	Chloride	APHA 4500 Cl D
	ICP (Na, Mg, Ba, K, Ca, Sr, Fe)	APHA 3120 B
	Hardness by Calculation	APHA 2340 B, 2017
	Chromatography	None
	Salinity	APHA 2520 B, 2017
	None	ASTM D 4052-11
	Tin (Sn)	In House Method 0582 Based on UOP938 -" 10
Potable Water	pH Value	APHA 4500 H+
	Chloride	APHA 4110 B
	ICP (Na, Fe, Zn, Mn, Mg, Cu, Pb)	APHA 3120 B
	Turbidity	APHA 2130 B
	Sulphate	APHA 4110 B
	Oxidisability	APHA 4500 KMnO4 B (Spectrometric Method)
	None	None
	None	None
	Zinc (2n)	None
	Heterotrophic Plate Count (Pour Plate)	APHA 9215 B (2017)
	Clostridium perfringens	ISO 14189: 2013
	Total Plate Count	In-house method LWM 3 based on
	Enumeration of Sporulate Sulfite	JKM M 2039, ISO 6461/2:1986 Water
	Bicarbonate Alkalinity as	APHA - 2320B
	Sulphate as	None
	None	None
	None	Based on Merck Chromocult
	Metal Analysis by ICP-OES	None
	None	None
	Mercury (Hg)	In House Method 0556 based on
	None	None
	Chromium	None
	None	None
	None	None
	None	AS/NZS 1766.2.9 ? 1997 of Australian/New Zealand Standard?

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SCOPE OF TESTING : MICROBIOLOGY

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

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	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-, ϕ Molecular
	None	Based on Porcine Trace \otimes 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
	Detection of Cronobacter	JKM M 3053 AOAC, 21* Edition, 2019 (991.14) -"
	Extraction of Food Samples	JKM M 3083
	Sequencing of mitochondrial	JKM B 0105 DNA Extraction and
	Foreign Matter and Extraneous	JKM B 0310 Speciation of animal
	Identification of Insects/Foreign	JKM B 0405 Determination of
	Identification of Foreign Matter in	JKM B 0404. Determination of
		JKM B 0402. Identification of Rodent
	Determination of the Origin of	JKM B 0403. Determination of Origin
	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
	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	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

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	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:
	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:
	Glialdin Allergen ? Qualitative	In-house Method, Ref. No. MOH:

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	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-,ç
	Escherichia coli / Coliform	Petrifilm-,ç E.coli / coliform count Plates
	Escherichia coli / Coliform	Method No: MOH K03-203
	Escherichia coli / Coliform	AOAC Official Method 990.12 3M-,ç
	Aerobic Count Plates	Petrifilm-,ç Aerobic Count Plates
	Aerobic Count Plates	Method No: MOH
	Aerobic Count Plates	AOAC Official Method 2003.07
	Staphylococcus aureus	2003.08, 2003.11 3M-,ç Staph Express Count Plate
	Staphylococcus aureus	Method No: MOH K03-205
	Staphylococcus aureus	AS/NZS 1766.2.9:1997 Examination
	Staphylococcus aureus	for specific organisms- Vibrio
	Vibrio parahaemolyticus	parahaemolyticus of Australian
	Vibrio parahaemolyticus	Standard
	Vibrio parahaemolyticus	Method No: MOH K03-310
	Vibrio parahaemolyticus	ISO 7932, Third Edition 2004-06-16
	Vibrio parahaemolyticus	Microbiology of food and animal
	Vibrio parahaemolyticus	feeding stuffs -" Horizontal method
	Bacillus cereus	for the enumeration of presumptive
	Bacillus cereus	Bacillus cereus -" Colony- count
	Bacillus cereus	technique at 30°C
	Bacillus cereus	Method No: MOH (1)
	Bacillus cereus	ISO/TS 22964:2006 (E)
	Enterobacter sakazakii	IDF/RM 210:2006 (E) -" Detection of Enterobacter sakazakii
	Enterobacter sakazakii	Method No: MOH K03-115
	Enterobacter sakazakii	ISO 16654:2001 (E) -" Horizontal
	E. coli 0157	method for the detection of Escherichia coli 0157
	E. coli 0157	Method No: MOH
	Coagulase positive staphylococci	ISO 6888-1:1999/Amd.1:2003 (E)
	staphylococci	Method No: MOH KO3-105 (1)
	Vibrio Species other than cholerae	other than Vibrio parahaemolyticus

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	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 colour (see Appendix I)	Water Soluble Synthetic Food Colour in Food by Paper
	colour (see Appendix I)	Chromatography and UV/ V15
	colour (see Appendix I)	spectrophotometer
	colour (see Appendix I)	In -" House Method, Ref. No. MOH
	Total Plate Count (TPC)	FDA Food and Drug =
	Determination of Boric acid in Food	FQL-TM-FA205 In-House Method
	by UV-Vis Spectrophotometer	based International Food on
	by UV-Vis Spectrophotometer	Research Journal 17: 1107-1112
	by UV-Vis Spectrophotometer	(2010)
	Total Plate Count in Food by using 3M Petrifilm Aerobic Count Plate	AOAC Official Method 990.12 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	AOAC Official Method 991.14 None
	Enumeration of Staphylococcus Aureus in Food by using 3M Petrifilm Staph Express Count Plates	AOAC Official Method 2003.07 None
	Detection of Bacillus Cereus in Food	Compact Dry -œNissui-• Bacillus Cereus
	Detection of Salmonella in Food	Bacteriological Analytical Manual,

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	Detection of Salmonella in Food	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 Organophosphorus Method: AOAC 2007.01	ISO 6579-1:2017	
	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 Campylobacter spp	MOH MMEF Part 4 Section	
	Gram Negative Pathogens	MOH (1): ISO 10272-	
	Boric Acid	In-house Method, Ref. No. MOH RO3-	
	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:	
	Surface Swab	Total Plate Count	In-house Method based on Compendium Chapter 3
		Coliform	In-house Method based on Compendium Chapter 3
Escherichia coli		In-house Method based on Compendium Chapter 3	
Staphylococcus aureus		In-house Method based on Compendium Chapter 3	
Salmonella sp.		In-house Method based on Compendium Chapter 3	
Sampling		ISO 18593:2004	
Water & Wastewater	Sampling	Compendium of Methods for the	
	Heterotrophic Plate count / Total Plate Count	APHA 9215 B (Pour Plate)	
	Aluminium	HACH Method 8012	
	Chromium Hexavalent	HACH Method 8023	
	Copper	HACH Method 8506	
Fluoride	HACH Method 8029		

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	Iron	HACH Method 8008
	Manganese	HACH Method 8034
	Nickel	HACH Method 8150
	Nitrite	HACH Method 8153
	Oil & Grease	APHA 5520 B: 2005
	pH	APHA 4500-H*B: 2005
	Silica, HR (0-75.0 mg/L)	HACH Method 8185
	Silica, LR (0-1.60 mg/L)	HACH Method 8186
	Sulfate	HACH Method 8051
	Zinc	HACH Method 8009
	BODs	APHA 5210 B
	Sulfite	APHA 4500-SO ₃ 2-B: 2005
	Turbidity	HACH Method 8237
	Colour, True & Apparent	HACH Method 8025
	COD	HACH Method 8000
	Total Nitrogen	HACH Method 10071
	Chloride	APHA
	Barium	HACH Method 8014
	Total Chlorine	HACH Method 8167
	Silver	HACH Method 8120
	Total Chromium	HACH Method 8024
	Chromium Trivalent	HACH Method 8024 & 8023
	Standard Total Coliform	APHA 9222 B, 22" Edition
	pH Value	APHA 4500-H* B
	Biochemical Oxygen Demand (5 Days @ 20°C)	APHA 5210 B and 4500-0 G
	Total Suspended Solids	APHA 2540 D
	Oil and grease	APHA 5520 B
	Chemical Oxygen Demand	In-House Method, based on MN Method 985926; 985929
	Ammoniacal Nitrogen	APHA 4500-NH ₃ D
	Total Solids dried at 103 -" 105°C	APHA 2540 B
	Faecal Coliform Count (FCC)	APHA 9221 E
	pH	APHA 4500-H* B, 22" Edition, 2012
	Chloride (Cl), Fluoride (F), None	APHA 4110 B -" 23" Edition APHA 2130 B, 2017
	Total Alkalinity (bicarbonate/ carbonate/ hydroxide)	APHA 2320 B, 2005 APHA 2320 B, 2017
	Conductivity	APHA 2510 B, 2005 APHA 2510 B, 2017
	Salinity	APHA 2520 B, 2005

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