

NO: SAMM 134

Page: 1 of 12

LABORATORY LOCATION/ CENTRAL OFFICE:	Jabatan Kimia Malaysia Negeri Pahang Jalan Dato Bahaman Alor Akar 25050 Kuantan, Pahang , 25050, PAHANG MALAYSIA
	
ACCREDITED SINCE :	25 MARCH 2025
FIELD(S) OF TESTING:	CHEMICAL MICROBIOLOGY

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

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

CENTRAL LOCATION:	Jabatan Kimia Malaysia Negeri Pahang Jalan Dato Bahaman Alor Akar 25050 Kuantan, Pahang , 25050, Pahang
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
(cont.)	None	2005
	None	None
	None	None
	Chromium Trivalent	005 (Based on APHA 3500 Cr B)
	Phenol	APHA 5530 B&D (Direct Photometric
	Phenol	Method)
	Phenol	In-House Test Method LMS
	Phenol	Method 045 Based on APHA 5530 D
	Phenol	(Direct Photometric Method using
	Phenol	CFA)
	Sulphide	APHA 4500 F

Schedule

Issue date: 25 March 2025
Valid Until: -



NO: SAMM 134

Page: 2 of 12

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Sulphide	In-House Test Method LMS
	Sulphide	Method 047 Based on APHA 4500
	Sulphide	S*E
	Tin	009, based on APHA 3120 B
	Ammonia	APHA 4500 NH3
	Ammonia	APHA 4500 NH3 F Phenate Method
	Ammonia	In-House Test Method LMS
	Ammonia	Method 044 Based on APHA
	Ammonia	4500- NH3 G
	Oil and Grease	APHA 5520 G
	Oil and Grease	Solid Phase Partition -" Gravimetric
	Oil and Grease	Method
	Fluoride	APHA 4500 F B&D SPADNS/UV
	Fluoride	Spectrophotometer
	Fluoride	In-House Test Method LMS
	Fluoride	Method 046 Based on APHA
	Fluoride	4500 F-E
	Color, ADMI	APHA 2120 F, HACH ADMI
	Color, ADMI	Weighted Ordinate Method
	Formaldehyde	In-House Test Method LMS Method
	Formaldehyde	010, based on HACH MBTH Method
	Formaldehyde	8110 -" DR 5000 Spectrophotometer
Alcoholic Beverages	% Ethanol	JKM K 0106 (Harmonized In-House
	Determination of Ethanol Content in Alcoholic Beverages	In-house Method JKM (KCH) 26/95 KAS/1000 based on JAOAC 66, 1152-1157 (1983) Gas Chromatography
	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
	None	None

Scan this QR Code or visit <https://accreditation.ism.gov.my/public/listing/cab/samm-ct/3003824> for the current scope of accreditation

Schedule

Issue date: 25 March 2025
Valid Until: -



NO: SAMM 134

Page: 3 of 12

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	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
And Drinking Water	None	(SPADNS Method)
Cigarettes	None	Microscopic Examination
	Identification of Tobacco	JKM K 45 (Harmonized In-house
	Identification of Tobacco Leaves	JKM K 0701
Effluents (prescribed Premises)	Chemical Oxygen Demand	DOE Approved Method (1985), 4"
Environment	Biochemical Oxygen Demand	DOE Approved Method (1985),
Environment	Chloride	APHA 4500 -" CIB, 21% Edition
	None	None
	by sedimentation method,	None
	None	None
Environment Raw, Prepared And Treated Water	Biochemical Oxygen Demand (BOD, 5 days)	APHA 5210B, 21% Edition 2005 (5- Day BOD Test)
Industrial And Sewage Waste	Ammonia Nitrogen	APHA 4500 NH3 - B, C
Industrial Effluent	ADMI Colour	APHA 2120 F
	- Copper	Direct Air-Acetylene Flame Method
	None	None
	None	Edition
	None	None
	None	on APHA 3112B, using FIMS
	None	Demand
	None	None
	None	None
	Temperature	APHA 2550 B
	None	None
	Arsenic	None
	None	None
	Conductivity	APHA 2510 (APHA Method Ed. 2005)
	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

Schedule

Issue date: 25 March 2025
Valid Until: -



NO: SAMM 134

Page: 4 of 12

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Industry	Colour (Lovibond)	JKM K 0201 (Harmonized In-House
	None	None
	None	None
	None	None
Industry Tobacco Product / Cloves /	Identification of Tobacco Leaves and Cloves	JKM K 44 (In-house Method)
Liquids Effluents	None	Gravimetric Method)
	Conductivity	APHA 2510 B, Edition 2005
Palm Oil And Palm Oil	Moisture and Volatile	JKM K 0214
	None	Method)
	Colour	MPOB p4.1 :2004 Lovibond Method
	Impurities	MPOB, Ref. No . P2.2, 2004
	Determination of Fatty Acid	MPOB p3.5 : 2004
	Free Fatty Acids	AOCS Ca 5a-40 (1997)
Potable Water, Surface	Oil and Grease	APHA 5520 B, 21% Edition 2005
	None	2005 (Argentometric Method)
	Colour	APHA 2120 B
	BOD	APHA 5210B 5 Day BOD Test
	Coliform and Faecal Coliform	JKM M 2031H
	Anions (F, Cl, NOs, SOs, POs)	APHA 4110 B -" Ion Chromatography
	BOD five days	APHA 5210 B. 5 Day BOD Test.
		(Harmonized In-house Method)
Products	Matter	
	None	Foods, Edition, 1981 page 15-20,
	None	on Concordia College Journal of
	Water Insoluble Ash (in percentage)	on Pearson-™s Chemical Analysis of
	None	Ashing techniques
	None	Concordia College Journal of Analytical
	None	calculation
	None	ISO 2173:2003, Second Edition,
	None	None
	None	None
	None	None
	None	None
	Chloride)	None
	None	None
	None	AOCS Ca 2c-25, 2017
	None	None
	None	None
	None	None
	None	based on AOAC 962.19
	Hydroxy Methyl Furfural (HMF)	n-house Method QWI-OF/17-143
	None	None
	None	None

Schedule

Issue date: 25 March 2025
Valid Until: -



NO: SAMM 134

Page: 5 of 12

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Listeria spp.	FDA-BAM Online, Chapter 10 (2022)
	Total Yeast and Mold Count	FDA-BAM Online, Chapter 18 (2001)
	Acidity	MPOB, Ref. No . P2.5, 2004
	Total Nitrogen & Protein	STP/Chem/A03 based on AOAC 20
	None	None
	None	012-RO based on BS 12014-4:2005
	None	None
	None	None
	(Detection)	USP 38 (Method 62)
	Salmonella (Detection)	USP 38 (Method 62)
	Escherichia coli (Detection)	USP 38 (Method 62)
	Bile - tolerant Gram Negative	USP 38 (Method 62)
	None	ASTM A 370: 2020 Clause 18
	Dimethyl Phthalate (DMP)	003 with reference to IEC 62321-
	Enumeration of	AOAC Official Method 2003.07
	Aureus	None
	None	None
	None	None
	None	Detection)
	None	Labeling, Chapter 1, 1993
	None	None
	None	None
	None	None
	Maltose & Sucrose	Labeling Method No. 980.13
	None	6590EN & LCTECH SOP, using GC-
	Deoxinevalenol, Fumonisin B1,	Analytical Toxicology, 5:2, 2014, Pg.
	None	AS 5013.4-2009 (Pour Plate Method)
	None	None
	None	PBPK/BAC 02
	Dose	None
	None	D5865-10a
	None	None
	None	None
	None	None
	None	None
	None	None
	Disturbance power from cable	CISPR 16-2-2:2010
	Nickel	None
	None	None
	None	None
	None	None

Schedule

Issue date: 25 March 2025
Valid Until: -



NO: SAMM 134

Page: 6 of 12

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
	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
	Impurities	MPOB p2.2:2004
	Peroxide Value	MPOB p2.3:2004
	Acidity/FFA	MPOB p2.5:2004

Scan this QR Code or visit <https://accreditation.ism.gov.my/public/listing/cab/samm-ct/3003824> for the current scope of accreditation

Schedule

Issue date: 25 March 2025
Valid Until: -



NO: SAMM 134

Page: 7 of 12

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	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	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
	None	AOAC 991.14 (3M Petrifilm) (2002)
	None	None

Scan this QR Code or visit <https://accreditation.ism.gov.my/public/listing/cab/samm-ct/3003824> for the current scope of accreditation

Schedule

Issue date: 25 March 2025
Valid Until: -



NO: SAMM 134

Page: 8 of 12

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Clostridium perfringens Count	FDA-BAM Chapter 16 (2001)
	None	None
	Dynamic Viscosity and Density	None
	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
	None	Zearala
	None	Spectrometry (WDXRF)
	in Fruit Juices and Related	onBrause et al., Journal of AOAC
	None	Lovibond Colour in Palm Oil and
	None	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
	Endotoxin in Medical Devices	USP 29' Edition (LAL Gel Clot
	None	None
	None	None

Scan this QR Code or visit <https://accreditation.ism.gov.my/public/listing/cab/samm-ct/3003824> for the current scope of accreditation

Schedule

Issue date: 25 March 2025
Valid Until: -



NO: SAMM 134

Page: 9 of 12

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
	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
	Aerobic Plate Count	None
	Total Coliform Count	FDA-BAM, Ed, Chap 4
	Fecal Coliform	None
	Salmonella spp.	FDA-BAM, Ed, Chap 5

Schedule

Issue date: 25 March 2025
Valid Until: -



NO: SAMM 134

Page: 10 of 12

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	- 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
	Tocotrienol, Beta Tocotrienol,	EvTM_0049/GC
	Gamma Tocotrienol, Delta Tocotrienol)	1993/HPLC
		None
		None

Schedule

Issue date: 25 March 2025
Valid Until: -



NO: SAMM 134

Page: 11 of 12

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Benzo A Pyrene	EvTM_0114, Based on AOCS Cd 21-91, 5th Edition (2003)
	Mixed Carotene	EvTM_0115/HPLC
	Mixed Carotene	EvTM_0116/UV-VIS
	Lycopene Content	EvTM_0118/UV-VIS
	Plant Squalene	EvTM_0124/HPLC
	Phytosterols Content (Sitosterol, Stigmasterol)	EvTM_0125/HPLC
	Solvent Residue (Hexane, Ethyl Acetate, Methanol, Isopropanol, Dichloromethane, Ethanol)	EvTM_0126/GC HS
	Moisture	None
	Moisture	AOCS Ca 2e - 84, Edition (2003)
	Total Aerobic Microbial Count	XVI B
	Total Combined Yeasts/ Moulds Count	BP 2020/Volume
	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	IV/Appendix XVI B
	Escherichia coli	None
	Salmonella spp	None
	Total Aerobic Microbial Count	None
	Total Combined Yeasts/ Moulds Count	XVI B
	Coliform Count	BP 2020/Volume
	Bile-Tolerant Gram-Negative Bacteria	XVI B
	Detection of Specific Microorganism	BP 2020/Volume
	Pseudomonas aeruginosa	XVI B
	Staphylococcus aureus	None
	Escherichia coli	None
	Salmonella spp	None
	None	spp. by Real-Time PCR (qPCR) -" SYBR
	None	None
	None	in Soybean by real-Time PCR (qPCR)
	None	DNA (Universal Plant) by Real-Time
	Free Fatty Acids	None
	Moisture and Volatile Matter Hot Plate Method	AOCS Ca 2b-38 (1997)
		None

Scan this QR Code or visit <https://accreditation.ism.gov.my/public/listing/cab/samm-ct/3003824> for the current scope of accreditation

Schedule

Issue date: 25 March 2025
Valid Until: -



NO: SAMM 134

Page: 12 of 12

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Insoluble Impurities	AOCS Ca 3a-46 (1997)
	Iodine Value of Fats and Oils	None
	Cyclohexane-Acetic Acid	AOCS Cd 1d-92 (1997)
	Method	None
	Slip Melting Point	None
	AOCS Standard Open Tube	AOCS Cc 3-25 (1997)
	Melting Point	None
	Color	AOCS Cc (1997)
Products (cont.)	None	None
	Surge Immunity	BS EN 61000-4-5:2014
	Immunity to Conducted	BS EN 61000-4-6:2014
	None	35S Promoter of Genetically Modified
Raw And Surface Water	Chemical Oxygen Demand	JKM W 0401 (HACH Method 8000)
Raw Water, Surface Water	Fluoride	APHA 4500 F-D
Rubber And Palm Oil	(BOD, 3 days)	Edition, 2019 (Reference Method)
	BOD (3 Days)	None
	None	Effluent
	None	Effluent
Water Effluent	None	Determination of Ammonia Nitrogen
Water, Ground Water And	None	(Liquid-Liquid, Partition -
Water, Ground Water And Liquids Effluents	Sulphate	APHA 4500 -" 21% Edition

SCOPE OF TESTING : MICROBIOLOGY

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Portable And Treated Water	Coliform Bacteria and E.coli	based on APHA, Part 9222 A, B, D
Raw And Treated Water	Coliform Bacteria and E.coli	A, B, C and 9223 A,B 21% Edition,
	None	MY/STP/015 based on APHA 3120 B

Scan this QR Code or visit <https://accreditation.ism.gov.my/public/listing/lab/samm-ct/3003824> for the current scope of accreditation