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LABORATORY LOCATION/ CENTRAL OFFICE:	Jabatan Kimia Malaysia Negeri Perak Makmal Negeri Perak Jalan Sultan Azlan Shah 31400, Ipoh, Perak , 31400, PERAK MALAYSIA
	
ACCREDITED SINCE :	18 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 Perak Makmal Negeri Perak Jalan Sultan Azlan Shah 31400, Ipoh, Perak , 31400, Perak
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
Environment Chemistry Nd Water Quality Section Rubber & Palm Oil Effluents	Ammoniacal Nitrogen	JKM E 018E DOE Reference Method
	Total Nitrogen	JKM E 026E DOE Reference Method
	BOD 3 days COD	JKM E 211E DOE Reference Method JKM E 201E DOE Reference Method
Rubber & Palm Oil Effluents (treated)	Oil & grease	JKM E 205E DOE Reference Method Partition Gravimetry
	Suspended solids	JKM E 011E DOE Reference Method
Water	Escherichia Coli	Membrane Filtration Method

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Coliform Bacteria and	JKM M 2032
	COD	JKM W 0411 Spectrometry - MERCK system
	Total Plate Count Total Coliform Fecal Coliform E. coli Yeast and Mold	AOAC 990.12, 2012 APHA 9215 C, 22nd Edition AOAC 991.14, 2012 APHA 9221 B, 22nd Edition APHA 9221 E, 22nd Edition AOAC 991.14, 2012 APHA 9221 F, 22nd Edition AOAC 997.02, 2012 APHA 9610 C, 22nd Edition
	pH Test Turbidity Test Total Suspended Solids Test	PT Protocol UTP W01
	pH Test Turbidity Test Total Suspended Solids Test	PT Protocol UTP W01
Environment Chemistry	None	None
	None	None
	None	None
And Water Quality Section	None	None
	None	None
(continued) Water & Wastewater	Ammoniacal Nitrogen	Titrimetric Method
	Ammoniacal Nitrogen	JKM E 0144 APHA 4500-NHs B, C APHA Edition
	Colour ADMI	JKM E0147 (APHA 2120 F) APHA Ordinated Spectrometric Method
	Chromium Hexavalent	APHA 3500 ? Cr B; APHA Edition
	Chromium Hexavalent	JKM E 0111
	Phenol Determination	APHA 5530D; APHA 21? Edition Direct Photometric Method
	Oil & Grease	Partition Gravimetry
	Oil & Grease	APHA Edition
	Oil & Grease	APHA 5520B
	Total Solids	Dried at 103 ?C ? 105 ?C
	Total Solids	Total Solids
	Total Solids	APHA Edition
	Total Solids	APHA 2540B
	Total Suspended Solids	Total Suspended Solids Dried at 103 ?C ? 105 ?C
	Total Suspended Solids	APHA 2540D APHA Edition
	Metals: Copper, Nickel, Zinc, Lead, Cadmium, Manganese, Iron & Chromium	APHA 3111B APHA Edition AAS-Direct air-acetylene flame
	COD	APHA 5220 B, APHA 21* Edition
	5 days BOD	APHA 4500 O-G, APHA 5210 B APHA 21* Edition
And Water Quality Section (continued)	Ammonia	JKM E 0153 (APHA 4500-NHs F) APHA Edition
Ground And Surface Waters	Nitrate	JKM E0157 (HACH 8039) Spectrophotometry Method

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	pH Value	Electrometric Method
	pH Value	JKM E 0101 APHA 4500 ?- HB APHA Edition
	Conductivity	JKM E 0102 APHA 2150B; APHA Edition
	Phosphate	APHA 4500-PE; APHA Edition Merck Method
	Turbidity	JKM E 0109 (APHA 2130 B) APHA Edition
Raw And Treated Water	Total Coliform & Faecal Coliform	Guidelines for Drinking Water Quality Vol. 3 P. 84-107 Multiple Tube Method
	Total Coliform & Faecal Coliform	JKM M020
	16 Endrin Aldehyde 17 4,4-DDD 18 4,4-DDE 19 4,4-DDT	None
	15 Endrin	None
	13 Endosulfan Sulphate 14 Dieldrin	None
	11 Alpha-Endosulfan 12 Beta-Endosulfan	None
	Heptachlor Heptachlor-exo-epoxide Methoxychlor Alpha-Chlordane 10 Gamma-Chlordane	None
	Aldrin	None
	Gamma-BHC (Lindane) Delta-BHC	None
	Organochlorine Pesticides in Water: Alpha-BHC Beta-BHC	JKM W 0502 SPE Extraction and GC-uECD
(continued) Organic Extract (raw And Treated Water)	16 Endrin Aldehyde 17 4,4-DDD 18 4,4-DDE 19 4,4-DDT	None
	15 Endrin	None
	13 Endosulfan Sulphate 14 Dieldrin	None
	11 Alpha-Endosulfan 12 Beta-Endosulfan	None
	Heptachlor Heptachlor-exo-epoxide Methoxychlor Alpha-Chlordane 10 Gamma-Chlordane	None
	Aldrin	None
	Organochlorine Pesticides: Alpha-BHC Beta-BHC Gamma-BHC (Lindane) Delta-BHC	JKM W 0502 (Instrumentation method by GC-
Pesticides Analysi	None	None
	None	None
	None	None
Section Fresh Fruits & Vegetables	22 Fenamiphos 23 24 Mevinphos 25 Sulphotep	None
	21 Phenthoate	None

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	20 Fenthion	None
	17 Triazophos 18 Ethoprophos 19 Malathion	None
	16 Prothiofos	None
	14 15 Methidathion	None
	12 13 Fenitrothion	None
	10 Leptophos 11 Dichlorvos	None
	Parathion-methyl Quinalphos Profenofos	None
	Chlorpyrifos Dimethoate	None
	Methamidophos Acephate Monocrotophos Diazinon	None
	Organophosphorous Pesticides:	JKM F0702/QUECHERS extraction & Gas Chromatography
Section	None	None
	None	None
(continued) Fresh Fruits & Vegetables	4 Methamidophos Z Acephate 3 Monocrotophos	None
	Organophosphorous Pesticides:	None
	Insecticides : 4 Imidacloprid 2 Thiamethoxam	JKM Ultra Performance Liquid Chromatography Tandem Mass Spectrometer (UPLC-MS/MS)
	23 Carbaryl	None
	22 3-OH Carbofuran	None
	21 Aldicarb sulfoxide	None
	20 Thiobencarb	None
	17 Fenoxycarb 18 Iprovalicarb 19 Promecarb	None
	16 Fenobucarb	None
	15 Carbofuran	None
	14 Thiodicarb	None
	13 Butocarboxim Sulfoxide	None
	12 Butocarboxim	None
	11 Bendiocarb	None
	10 Aldicarb Sulfone	None
	Propamocarb Propoxur Isoprocarb Aldicarb	None
	Methomyl Pirimicarb	None
	Carbendazim Methiocarb	Liquid Chromatography Tandem Mass Spectrometer (UPLC-MS/MS)
	Carbamates :	JKM Ultra Performance
	4,4-DDD Endosulfan Sulphate	None
	4,4-DDT Methoxychlor	None
	Beta-Endosulfan	None
	4,4-DDE Endrin	None
	Alpha-Endosulfan Dieldrin	None

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Heptachlor-Iso- B Gamma-Chlordane	None
	Dicofol	None
	Heptachlor Aldrin	None
	Lindane	None
	Organochlorinated Pesticides Alpha-BHC Hexachlorobenzene (HCB) Beta-BHC	JKM FA 0001: Gas Chromatography Electron Capture Detector (GCECD)
Fresh Fruits & Vegetables	Deltamethrin	None
	Synthetic Pyrethroids: Fenpropathrin Lambda Cyhalothrin Fenvalarate	JKM FA 0002: Gas Chromatography Electron Capture Detector (GCECD)
Root And Tuber Vegetables	16 Chlorpyrifos 17, 18 Chlorfenvinphos 19 Quinalphos	None
	15 Fenthion	None
	14 Malathion	None
	10 Parathion-methyl 11 12 Ronnel / Fenchlorphos 13 Fenitrothion	None
	9 Chlorothalonil	None
	8 Etrimfos	None
	BHC-delta	None
	Diazinon	None
	2 Ethoprophos 3 BHC-alpha (benzene hexachloride) BHC-gamma (Lindane, gamma HCH) Terbufos	None
	1 Dichlorvos	None
	Multi-Residues Pesticides Analysis in Root and Tuber Vegetables using QUECHERS. Method	JKM F0723/ QUEChERS Extraction & Gas Chromatography- Tandem Mass Spectrometer (GCMSMS)
Pesticides Analysis Section (continued) Root And Tuber Vegetables	Multi-Residues Pesticides Analysis in Root and Tuber Vegetables using QUECHERS Method 20 Phenthoate 21 Fenamiphos 22 Profenofos 23 Endrin 24 DDD-p,p' 25 Ethion 26 Bifenthrin 27 Anilofos 28 Leptophos 29 Esfenvalerate	JKM F0723/ QUEChERS Extraction & Gas Chromatography- Tandem Mass Spectrometer (GCMSMS)
Industry Section	Multi-Residues Pesticides Analysis in Root and Tuber Vegetables using QUECHERS Method 20 Phenthoate 21 Fenamiphos 22 Profenofos 23 Endrin 24 DDD-p,p' 25 Ethion 26 Bifenthrin 27 Anilofos 28 Leptophos 29 Esfenvalerate	None
Alcoholic Beverages	Ethanol	JKM(PK) ? KAS 1 1000 Gas Chromatography
	KATEST 1 Alcohol Content	PT Design 101

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Cigarettes	Tobacco and Clove Nicotine, Eugenol and Menthol	JKM 03/42 ? Microscopic Examination and Gas Chromatography Mass Spectrometer (GCMS)
	Tobacco Leaves and Cloves	JKM K45 ? Thin Layer Chromatography (TLC)
	Tobacco Leaves and Cloves	JKM K44 ? Microscopic Examination
Palm Oil	Slip Melting Point	JKM K0216, MPOB p4.2:2004
	Iodine Value of Fats and Oils	JKM K0213, MPOB p3.2:2004
	Impurities	JKM K0215, MPOB p2.2:2004
	Moisture & Volatile Matter	JKM K0214, MPOB p2.1, Part 1:2004
	Saponification Value	JKM K0204, MPOB p3.1:2004
	Acidity	JKM K0202, MPOB p2.5:2004
	Colour	JKM K0201, MPOB p4.1:2004
	Paraquat Glyphosate, Glufosinate Ammonium Benzo (a) Pyrene Hydrocarbon Deltamethrin Organochlorines: Alpha-BHC Beta - BHC Gamma-BHC (Lindane) Delta-BHC Endrin Endrin Ketone Heptachlor Heptachlor Epoxide Cis-Chlordane Trans-Chlordane Dieldrin Methoxychlor P.P?-DDE P.P?-DDD P.P?-DDT Organophosphate: Monocrotophos Methamidophos Acephate Chlorpyrifos 3MCPD (3-monochlor	MPOB T.T. No. 293, 2005 In-house Method, Ref. No. PL5 Based on MPOB T.T. No. 292, 2005, In-house Ref. no. PL11 Based on MPOB T.T. No. 292, 2005 MPOB T.T. No. 301, 2005 MPOB T.T. No. 300, 2005 MPOB T.T. No. 297, 2005 MPOB T.T. No. 298, 2005 In-house Method, Ref. No. PL 8, Based on MPOB T.T. No. 294, 295, 296, 299 and European Journal Lipid Science Technology vol 108 (960- 964). 2006 AOCS Official Method Cd 29a- 13:2013
Crude Palm Oil	Deterioration of Bleachability Index (DOBI)	JKM K0218 [MPOB P2.9 (2004)]

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Moisture and Volatile Matter Content Peroxide Value (PV) Acidity (FFA) Impurities (Dirt) Anisidine Value (AV) Specific Extinction in UV Light (UV) DOBI Carotene Iron Copper Phosphorus (P) Bleachability Iodine Value	MS 817 : Part 2 : 1998 MS 817 : Part 11 : 2004 MS 817 : 1989 MS 817 : 1989 MS 817 : Part 5 : 1998 MS 817 : 1989 MS 817 : 1989 MS 817 : 1989 In-house Method, Ref.No. 09, Based on AOAC 10th Edition and Cocks & Van Rede, 1966, Laboratory Handbook for Oil and Fat Analysts) In-house Method, Ref. No. 010, Based on AOAC 10th Edition and Cocks & Van Rede, 1966, Laboratory Handbook for Oil and Fat Analysts MS 817 : 1989 In-house Method, Ref. No. 013, Based on MPOB Method p2.8 Part
Industry Section (continued)	None	None
Denatured Alcohol	Peppermint Oil	JKM K0115/ Calorimetric Method
	Percentage Vinegar	JKM 0109 Titration Method
	Methanol	JKM 0110 Colorimetric Method
Alcohol	Alcohol Percentage	JKM K0114/ Hydrometric Method
Alcohol Denaturant	Brucine Sulphate	JKM K103/41 Colorimetric Method & UV- Spectrometry
	Diethyl Pthalate	JKM K 013/ Colorimetric Method & Gas Chromatography
	Bitrex (Denatonium Benzoate)	JKM K 0111 Colorimetric Method
Distilled Spirit	Specific Gravity	JKM K 0108 Pycnometer
Petrol Kerosene	Petrol, Kerosene and Diesel	JKM 01/17 ? Gas Chromatography Mass Spectrometer (GCMS)
Diesel	Petrol, Kerosene and Diesel	None

SCOPE OF TESTING : MICROBIOLOGY

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Microbiology Sectio	None	None
Water And Wastewater	Coliform and E.Coli	Wastewater, Edition, 2005. (APHA 9221 A, B, C and 9223 A, B) (MPN)
	Coliform and E.Coli	for the Examination of Water and
	Coliform and E.Coli	Based on APHA Standard Methods
	Coliform and E.Coli	JKM M 2040
	Coliform and E.Coli	Multiple Tube Method (MPN)

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Water (treated)	Coliform and E.Coli	Wastewater.
	Coliform and E.Coli	for the Examination of Water and
	Coliform and E.Coli	Based on APHA Standard Methods
	Coliform and E.Coli	JKM M 2033
	Perfringens	Health Protection Agency Standard Method,2005 JKM M 2035
	Enumeration of Clostridium intestinal enterococci.	Membrane Filtration-W5 Wales ISO 7899-2:2000(E) JKM M 2036
	Detection and Enumeration of	Part 2: Membrane Filtration method-
	Colony Counts ? Enumeration of culturable microorganisms	microorganisms- Colony count by inoculation in nutrient agar culture medium.
	Colony Counts ? Enumeration of culturable microorganisms	JKM M2038 Based on ISO 6222: Water Quality- Enumeration of culturable

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