


## Schedule

Issue date: 06 April 2025  
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<b>LABORATORY LOCATION/ CENTRAL OFFICE:</b> 	JABATAN KIMIA MALAYSIA NEGERI KEDAH JALAN SUKA MENANTI , 05150, KEDAH MALAYSIA
<b>ACCREDITED SINCE :</b>	06 APRIL 2025
<b>FIELD(S) OF TESTING:</b>	CHEMICAL MICROBIOLOGICAL

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).

<b>CENTRAL LOCATION:</b>	JABATAN KIMIA MALAYSIA NEGERI KEDAH JALAN SUKA MENANTI , 05150, Kedah
<b>FIELD(S) OF TESTING :</b>	CHEMICAL, MICROBIOLOGICAL

### SCOPE OF TESTING : CHEMICAL

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
<b>Water</b> - Potable Water - Surface Water - Underground Water	pH value Conductivity Alkalinity Colour Silica Oil and Grease Hardness (EDTA) Calcium/Calcium Hardness Magnesium Biochemical Oxygen Demand (BOD-5 days at 20°C) Chemical Oxygen Demand Nitrogen (Ammonia)	JKM E0101 (APHA 4500-H+ B) JKM E0102 (APHA 2510 B) JKM E0107 (APHA 2320 B) JKM E0108 (APHA 2120 B) JKM E0110 (APHA 4500 SiO <sub>2</sub> C) JKM E0113 (APHA 5520 B) JKM E0114 (APHA 2340 C) JKM E0115 (APHA 3500-Ca B) JKM E0116 (APHA 3500-Mg B) JKM E0118 (APHA 5210 B; APHA 4500-O C; APHA 4500-O G) JKM E0119 (APHA 5220 B) JKM E0124 (APHA 4500-NH <sub>3</sub> B, APHA 4500-NH <sub>3</sub> C)
	Chloride Phosphate Sulphate Metals by AAS (Cadmium, Zinc, Lead, Manganese, Iron) Total Solids Total Suspended Solids Total Dissolved Solids	JKM E0125 (APHA 4500-Cl- B) JKM E0126 (APHA 4500-P E) JKM E0127 (APHA 4500-SO <sub>4</sub> 2- E) JKM E0401 (APHA 3111 B) JKM E0103 (APHA 2540 B) JKM E0104 (APHA 2540 D) JKM E0105 (Gravimetric)
<b>Environmental Monitoring</b> - Sewage - Industrial Effluent - Waste Water	Total Solids Total Suspended Solids Total Dissolved Solids Chromium Hexavalent Phenols Oil and Grease Biochemical Oxygen Demand (BOD-5 days at 20°C) Chemical Oxygen Demand Nitrogen (Ammonia)	JKM E0103 (APHA 2540 B) JKM E0104 (APHA 2540 D) JKM E0105 (Gravimetric) JKM E0111 (APHA 3500-Cr B) (Colorimetric Method) JKM E0112 (APHA 5530 B, APHA 5530 C) JKM E0113 (APHA 5520 B) JKM E0118 (APHA 5210 B; APHA 4500-O C; APHA 4500-O G) JKM E0119 (APHA 5220 B) JKM E0124 (APHA 4500-NH <sub>3</sub> B, APHA 4500-NH <sub>3</sub> C)
	Metals by AAS • Cadmium • Zinc • Lead • Manganese • Iron	JKM E0401 (APHA 3111 B)

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	Arsenic Mercury Total Nitrogen	JKM E0402 (APHA 3114C) - by Hydride Generation AAS JKM E0403 (APHA 3112B) - by Cold Vapour AAS JKM E0203 (DOE- Reference Method)
<b>Industrial Chemical</b> - Denatured Alcohol	Methyl Alcohol in Denatured Alcohol Bitrex in Denatured Alcohol (Qualitative Determination) Brucine Sulphate in Denatured Alcohol Detection of Chloroform Determination of Diethyl Phthalate Detection of Isopropyl Alcohol Detection of Menthol Detection of Tert-Butyl Alcohol Determination Percentage of Vinegar (as Acetic Acid) in Denatured Alcohol	JKMPP K3 JKMPP K4 JKM(PP) 35/98-KAS9 JKMAS K1 JKMAS K2 JKMAS K4 JKMAS K5 JKMAS K7 In-house Method JKMAS K9 based on book The Chemical Analysis by David Pearson, 7th Edition (page 358), Titration
<b>Foods</b> - Alcoholic Beverage	Percent Proof Spirit and Percent Alcohol by Volume  Gas Chromatographic Determination of Ethanol in Alcoholic Beverages using Capillary Column	JKMAS K3 based on Sike's Table; Tables of Corresponding Percentage of Proof Spirit; Specific Gravity Spirit Tables and AOAC Official Methods of Analysis (1984)  JKM K0106
<b>Foods</b> - Edible Oils - Palm Oil Products	Determination of Acidity Determination of Iodine Value (Wijs Method)	MPOB p2.5:2004 MPOB p3.2:2004
<b>Petroleum &amp; Petroleum Products</b> - Fuels	Identification of Petrol, Kerosene and Diesel	JKMAS K8 by GC-FID
<b>Others</b> Cigarettes, Tobacco Leaves And Cloves	Morphological Examination & Detection of Nicotine, Eugenol and Menthol	JKM I03/42

## SCOPE OF TESTING : MICROBIOLOGICAL

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
<b>Water</b> - Potable Water & Drinking Water	Detection and Identification of coliform and Escherichia coli	JKM M 2032 - by Membrane filter method
<b>Water</b> - Water	Detection and enumeration of Enterococci	JKM M 2036- Water Quality: Detection and enumeration of intestinal enterococci. Part 2: Membrane filtration method [ISO 7899-2:2000 (E)]
	Colony count at 220C and at 36°C	JKM M 2038- Water Quality: Enumeration of culturable microorganisms. Colony count by inoculation in a nutrient agar culture medium [(ISO 6222:1999 (E)]
<b>Water</b> - Raw Water	Coliform and Escherichia coli	JKM M 2040 APHA 9221 A, B & C APHA 9223 A & B Most Probable Number (MPN), 21st Edition 2005

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