Schedule

Issue date: 23 October 2025
Valid until: 24 May 2030

NO: SAMM 463
(Issue 2, 23 October 2025 replacement of SAMM 463 dated 11 June 2025)

LABORATORY LOCATION/ CENTRAL OFFICE:	KHTP BIO ANALYTICAL LABORATORY SDN. BHD. GROUND FLOOR, TECHNO CENTRE KULIM HI-TECH PARK 09000 KULIM KEDAH MALAYSIA
ACCREDITED SINCE:	24 MAY 2010
FIELD(S) OF TESTING:	CHEMICAL, MICROBIOLOGY
SITE:	
1. SITE LABORATORY:	SITE 1
FIELD(S) OF TESTING:	CHEMICAL

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:	KHTP BIO ANALYTICAL LABORATORY SDN. BHD. GROUND FLOOR, TECHNO CENTRE, KULIM HI-TECH PARK, 09000 KULIM, KEDAH
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**
Agricultural Products and Materials Animal Feed	Moisture	In-House Method LTM 7.2.1A-009 based on AOAC Official Method 931.04, 2005
	Ash	In-House Method LTM 7.2.1A-010 based on AOAC Official Method 923.03, 2005
	Crude fat	AOAC Official Method 2003.06, 2005
	Crude protein	AOAC Official Method 2001.11, 2005
	Carbohydrates	In-House Method LTM 7.2.1A-013 based on Methods of Analysis for Nutrition Labeling, AOAC International 1993
	Calories/Energy	In-House Method LTM 7.2.1A-015 based on Methods of Analysis for Nutrition Labeling, AOAC International 1993

Material / Product Tested	Type of Test / Properties Measured / Range of Measurement	Standard Test Methods / Equipment / Techniques
Industrial Hygiene Biological Specimens Urine	S-Phenylmercapturic Acid (SPMA)	In-House Method LTM 7.2.1A-106 using LC-MS/MS
	Toluene	In-House Method LTM 7.2.1A-102 using HS-GC-FID
Drugs and Pharmaceuticals Herbs and Herbal Products Tablets Capsules Liquid Cream Balm Raw materials	Cadmium, Lead, Arsenic	In-house Method LTM 7.2.1A-017 using Microwave digestion / GFAAS
Foods Dairy products Fish and fish products Flour and confectionary Honey and honey products Infant food Meat, poultry and derived Products Non-alcoholic beverages Nuts, fruits, vegetables and derived products Sauces, herbs, spices and condiments Sugar and sugar products	Moisture	In-House Method LTM 7.2.1A-009 based on AOAC Official Method 931.04, 2005
	Ash	In-House Method LTM 7.2.1A-010 based on AOAC Official Method 923.03, 2005
	Crude fat	In-House Method LTM 7.2.1A-012 based on AOAC Official Method 2003.06, 2005
	Crude protein	In-House Method LTM 7.2.1A-011 based on AOAC Official Method 2001.11, 2005
	Carbohydrates	In-House Method LTM 7.2.1A-013 based on Methods of Analysis for Nutrition Labeling, AOAC International 1993
	Calories/Energy	In-House Method LTM 7.2.1A-015 based on Methods of Analysis for Nutrition Labeling, AOAC International 1993
Foods Beverages And Fruit Juices	Alcohol	In-House Method LTM 7.2.1A-022 using GC-FID
Foods Beverages and Fruit Products	Benzoic Acid Sorbic Acid	In-House Method LTM 7.2.1A-031 using HPLC
	Sugar	ASEAN Manual of Food Analysis, 2011

Material / Product Tested	Type of Test / Properties Measured / Range of Measurement	Standard Test Methods / Equipment / Techniques
Foods Dairy products Fish and fish products Honey and honey products Infant food Meat, poultry and derived Products Non-alcoholic beverages Nuts, fruits, vegetables and derived products	Total Fat	In-House Method LTM 7.2.1A-096 based on AOAC 963.15, 2005
Industrial Hygiene Biological Specimen Urine Blood	Aluminium	In-House Method LTM 7.2.1A-040 using ICP-MS
	Arsenic	
	Antimony	
	Cadmium	
	Chromium	
	Cobalt	
	Copper	
	Lead	
	Manganese	
	Mercury	
	Nickel	
	Zinc	
Industrial Hygiene Blood	Lead (Pb)	In-House Method LTM 7.2.1A-024 using GF-AAS
Industrial Hygiene Urine	2, 5 Hexanedione	In-House Method LTM 7.2.1A-020 using GC-FID
	Hippuric Acid	In-House Method LTM 7.2.1A-021 using HPLC-PDA
	Creatinine	In-House Method LTM 7.2.1A-028 using UV-VIS
	Phenol	In-House Method LTM 7.2.1A-056 using HPLC-PDA
	Methyl Hippuric Acid	In-House Method LTM 7.2.1A-078 using HPLC-PDA

Material / Product Tested	**Type of Test / Properties Measured / Range of Measurement**	**Standard Test Methods / Equipment / Techniques**
Water Mineral Water Potable Water Surface Water Industrial Effluent	pH	APHA 4500-H^+B
	Conductivity	APHA 2510 B
	Total Suspended Solids	APHA 2540 D
	Chemical Oxygen Demand	APHA 5220 C
	Biological Oxygen Demand	APHA 5210 B & APHA 4500 -O,G
	Ammoniacal Nitrogen	APHA 4500-NH_3 B, C
Water Surface Water Industrial Effluent	Oil and Grease	APHA 5520B
Water Industrial Effluent Surface Water Ground Water	Cd, As, Pb, Cu, Mn, Ni, Sn, Zn, B, Fe, Ag, Al, Se, Ba, Cr	APHA 3120 B
Water Industrial Effluent	Fluoride	APHA 4500-F C APHA 4500-F D
	Colour (ADMI)	APHA 2120 F
	Hexavalent Chromium, Cr^{6+}	APHA 3500-Cr B
	Sulphide	APHA 4500-S^{2-} C & F
	Phenol	APHA 5530 B & D
	Cyanide	APHA 4500-CN C & Method 8027 Hach Pyridine-Pyrazalone
	Mercury	APHA 3112 B
	Formaldehyde	Method 8110 Hach MBTH In-House Method LTM 7.2.1A-109 based on APHA 6252 B
	Trivalent Chromium, Cr^{3+}	In-House Method LTM 7.2.1A-108 based on APHA 3120 B & APHA 3500-Cr B

Material / Product Tested	Type of Test / Properties Measured / Range of Measurement	Standard Test Methods / Equipment / Techniques
Medical Devices	Ethylene Oxide Sterilization Residues	In-House Method LTM 7.2.1A-059A based on ISO 10993-7, 2008 and AMD 1 2019-12: Applicability of allowable limits for neonates and infants
	Ethylene Chlorohydrin Sterilization Residues	In-House Method LTM 7.2.1A-060A based on ISO 10993-7, 2008 and AMD 1 2019-12: Applicability of allowable limits for neonates and infants
	Ethylene Oxide and Ethylene Chlorohydrin Residues	In-House Method LTM 7.2.1A-077 based on ISO 10993-7, 2008 and AMD 1 2019-12

Note:

AOAC – Association of Official Analytical Chemist, 18th Edition, 2005

APHA – American Public Health Association, 21st Edition, 2005

SCOPE OF TESTING: MICROBIOLOGY

Material / Product Tested	Type of Test / Properties Measured / Range of Measurement	Standard Test Methods / Equipment / Techniques
Medical Devices Medical Devices Medical Solutions - Parenteral Preparation - Opthalmic - Non- Injectable preparation	Sterility	USP 41 Microbiological Test <71> Sterility Test
	Bioburden	ISO 11737-1, 2018
	Bacteriostasis and Fungistasis	A) In-house method based on USP 41 Microbiological Test <71> Sterility Test B) ISO 11737-2, 2019
Medical Devices Biological Indicator Spore Strip	Sterility	In-House Method LTM 7.2.1A-062 on USP 41 Microbiological Test <71> Sterility Test
	Population Count	In-House Method LTM 7.2.1A-063A based on USP 41 Microbiological Test <55> and ISO 11138 :2017 Part 1 and Part 2 In-House Method LTM 7.2.1A-063B based on 3M Technical Bulletin-05- 000003
Medical Devices Medical Devices Medical Solutions - Parenteral Preparation - Opthalmic - Non- Injectable Preparation	Sterility	ISO 11737 Part 2
Microbiological tests on **pharmaceutical and cosmetics** Traditional Herbal Products Cosmetic Toiletries	Total Aerobic Microbial Count	British Pharmacopoeia 2014 Appendix XVI B Pour Plate Technique
	Total Yeast & Mould Count	
	Bile Tolerant Gram Negative Bacteria - Present/Absent Semi Quantitative	
	Escherichia coli - Present/Absent Semi Quantitative	
	Salmonella	
	Pseudomonas aeruginosa	
	Staphylococcus aureus	

Material / Product Tested	**Type of Test / Properties Measured / Range of Measurement**	**Standard Test Methods / Equipment / Techniques**
Medical Devices Medical Solutions - Medical Injection Liquid - Dialysis Solution - Water for Injection (WFI) Water - Reverse Osmosis Water - Purified Water	Bacterial Endotoxins Test by Gel Clot Method	USP 41 Biological Test and Assay <85> Bacterial Endotoxins Test

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SITE LOCATION (HQ)	SITE 1
FIELD(S) OF TESTING:	CHEMICAL

SCOPE OF TESTING: CHEMICAL

Material / Product Tested	**Type of Test / Properties Measured / Range of Measurement**	**Standard Test Methods / Equipment / Techniques**
Water Industrial Effluent	pH and Temperature (in-situ)	APHA 2550 B
	Free Chlorine (in-situ)	APHA 4500-Cl G