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<b>LABORATORY LOCATION/ CENTRAL OFFICE:</b>	KHTP BIO Analytical Laboratory Sdn. Bhd. Ground Floor, Techno Centre Kulim Hi-Tech Park , 09000, KEDAH MALAYSIA
	
<b>ACCREDITED SINCE :</b>	11 JUNE 2025
<b>FIELD(S) OF TESTING:</b>	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).

<b>CENTRAL LOCATION:</b>	KHTP BIO Analytical Laboratory Sdn. Bhd. Ground Floor, Techno Centre Kulim Hi-Tech Park , 09000, Kedah
<b>FIELD(S) OF TESTING :</b>	CHEMICAL, MICROBIOLOGICAL

**SCOPE OF TESTING : CHEMICAL**

<b>Material / Product Tested</b>	<b>Type Of Test / Properties Measured / Range Of Measurement</b>	<b>Standard Test Methods / Equipment / Techniques</b>
<b>Drugs And pharmaceuticals</b> Herbs And Herbal Products tablets capsules liquid cream balm raw Materials	Cadmium, Lead, Arsenic	In-house Method Kbio-TI-0017 using Microwave digestion / GFAAS
<b>Agricultural Products And Materials</b> Animal Feed	Moisture	In-House Method Kbio-TI-0009 based on AOAC Official Method 931.04, 2005

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Ash	In-House Method Kbio-TI-0010 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 Kbio-TI-0013 based on Methods of Analysis for Nutrition Labeling, AOAC International 1993
	Calories/Energy	In-House Method Kbio-TI-0015 based on Methods of Analysis for Nutrition Labeling, AOAC International 1993
<b>Foods</b> 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, Vegetablesand Derived Products sauces, Herbs, Spices Andcondiments sugar And Sugar Products	Moisture	In-House Method Kbio-TI-0009 based on AOAC Official Method 931.04, 2005
	Ash	In-House Method Kbio-TI-0010 based on AOAC Official Method 923.03, 2005
	Crude fat	In-House Method Kbio-TI-0012 based on AOAC Official Method 2003.06, 2005
	Crude protein	In-House Method Kbio-TI-0011 based on AOAC Official Method 2001.11, 2005
	Carbohydrates	In-House Method Kbio-TI-0013 based on Methods of Analysis for Nutrition Labeling, AOAC International 1993
	Calories/Energy	In-House Method Kbio-TI-0015 based on Methods of Analysis for Nutrition Labeling, AOAC International 1993
<b>Foods</b> Beverages And Fruit Juices	Alcohol	In-House Method Kbio-TI-0022 using GC-FID
<b>Water</b> 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-NH3 B, C
<b>Surface Water</b> Industrial Effluent	Oil and Grease	APHA 5520B
<b>Industrial Hygiene</b> Urine	2, 5 hexanedione	In-House Method Kbio-TI-0020 using GC-FID

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Hippuric acid	In-House Method Kbio-TI-0021 using HPLC-UV
	Creatinine	In-House Method Kbio-TI-0028 using UV-VIS
	Phenol	In-House Method Kbio-TI-0056 using HPLC-UV
<b>Industrial Hygiene</b> Biological Specimen urine blood	Aluminium	In-House Method Kbio-TI-0040 using ICP-MS
	Arsenic	In-House Method Kbio-TI-0040 using ICP-MS
	Antimony	In-House Method Kbio-TI-0040 using ICP-MS
	Cadmium	In-House Method Kbio-TI-0040 using ICP-MS
	Chromium	In-House Method Kbio-TI-0040 using ICP-MS
	Cobalt	In-House Method Kbio-TI-0040 using ICP-MS
	Copper	In-House Method Kbio-TI-0040 using ICP-MS
	Lead	In-House Method Kbio-TI-0040 using ICP-MS
	Manganese	In-House Method Kbio-TI-0040 using ICP-MS
	Mercury	In-House Method Kbio-TI-0040 using ICP-MS
	Nickel	In-House Method Kbio-TI-0040 using ICP-MS
	Zinc	In-House Method Kbio-TI-0040 using ICP-MS
<b>Industrial Hygiene</b> Blood	Lead (Pb)	In-House Method Kbio-TI-0024 using GF-AAS
Medical Devices	1. Ethylene Oxide Sterilization Residues	In-House Method Kbio-TI-0059A based on ISO 10993-7, 2008 and AMD 1 2019-12: Applicability of allowable limits for neonates and infants
	2. Ethylene Chlorohydrin Sterilization Residues	In-House Method Kbio-TI-0060A based on ISO 10993-7, 2008 and AMD 1 2019-12: Applicability of allowable limits for neonates and infants
<b>Foods</b> Beverages And Fruit Products	Benzoic Acid Sorbic Acid	In-House Method Kbio-TI-0031 using HPLC
	Sugar	ASEAN Manual of Food Analysis, 2011

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<b>Industrial Hygiene</b> Urine	Methyl Hippuric Acid	In-House Method Kbio-TI-0078 using HPLC-PDA
Medical Devices Breathing Apparatus And Equipment Catheters	Ethylene Oxide and Ethylene Chlorohydrin Residues	In-House Method Kbio-TI-0077 based on ISO 10993-7, 2008 and AMD 1 2019-12
<b>Water</b> Industrial Effluent, Surface Water And Ground Water	Cd, As, Pb, Cu, Mn, Ni, Sn, Zn, B, Fe, Ag, Al, Se, Ba, Cr	APHA 3120 B
<b>Water</b> Industrial Effluent	pH and Temperature (in-situ)	APHA 2550 B

**SCOPE OF TESTING : MICROBIOLOGY**

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
<b>Microbiological Tests On Pharmaceutical And Cosmetics</b> Traditional Herbal Products Cosmetic Toiletries	Total Aerobic Microbial Count	British Pharmacopoeia 2014 Appendix XVI B  Pour Plate Technique
	Total Yeast & Mould Count	British Pharmacopoeia 2014 Appendix XVI B  Pour Plate Technique
	Bile Tolerant Gram Negative Bacteria - Present/Absent - Semi Quantitative	British Pharmacopoeia 2014 Appendix XVI B  Pour Plate Technique
	Escherichia coli - Present/Absent - Semi Quantitative	British Pharmacopoeia 2014 Appendix XVI B  Pour Plate Technique
	Salmonella	British Pharmacopoeia 2014 Appendix XVI B  Pour Plate Technique

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	Pseudomonas aeruginosa	British Pharmacopoeia 2014 Appendix XVI B  Pour Plate Technique
	Staphylococcus aureus	British Pharmacopoeia 2014 Appendix XVI B  Pour Plate Technique
<b>Medical Devices</b> Medical Devicesmedical Solutions- Parenteral Preparation- Ophthalmic- Non- Injectablepreparation	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
<b>Medical Devices</b> Biological Indicatorspore Strip	Population Count	In-House Method Kbio-TI-0063A based on USP 41 Microbiological Test <55> and ISO 11138 :2017 Part 1 and Part 2  In-House Method Kbio-TI-0063B based on 3M Technical Bulletin-05- 000003
<b>Biological Indicator</b> Spore Strip	Sterility	In-House Method Kbio-TI-0062 on USP 41 Microbiological Test <71> Sterility Test
<b>Medical Devices</b> Medical Devices Medical Solutions - Parenteral Preparation - Ophthalmic - Non- Injectable Preparation	Sterility	ISO 11737

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