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LABORATORY LOCATION/ CENTRAL OFFICE:	UMW LUBETECH SDN BHD NO. 1 (PT 152257), JALAN SUNGAI CHANDONG 24/KS11 TAMAN PERINDUSTRIAN PULAU INDAH, 42920 PULAU INDAH , 42920, SELANGOR MALAYSIA
	
ACCREDITED SINCE :	06 APRIL 2025
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:	UMW LUBETECH SDN BHD NO. 1 (PT 152257), JALAN SUNGAI CHANDONG 24/KS11 TAMAN PERINDUSTRIAN PULAU INDAH, 42920 PULAU INDAH , 42920, Selangor
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
#name?	by Stabinger Viscometer (and the	None
	Chemical oxygen demand, mg/L	In-house method IHM/006 adopted
	Total suspended solids, mg/L	*APHA 2540 D, 2005
	None	APHA 2540 D, 2017
	None	None
	Nitric Acid-Hydrochloric Acid	*APHA 3030F, 2005
	Digestion	APHA 3030F, 2017
	Copper (as Cu), mg/L	*APHA 3111 B, 2005
	None	APHA 3111 B, 2017
	Zinc (as Zn), mg/L	*APHA 3111 B, 2005
	None	APHA 3111 B, 2017
	None	None
	Manganese (as Mn), mg/L	*APHA 3111 B, 2005

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Nickel (as Ni), mg/L	*APHA 3111 B, 2005
	None	APHA 3111 B, 2017
	None	None
	Cadmium (as Cd), mg/L	*APHA 3111 B, 2005
	None	APHA 3111 B, 2017
	Biochemical oxygen demand (5 days at 20 °C), mg/L	*APHA 5210 B, 2005
	Dissolved Oxygen	APHA 5210 8B, 2017
	None	*APHA 4500-OG, 2005
	None	APHA 4500-OG, 2017
	None	None
	None	None
	None	APHA 4500-NHs B, 2017
	None	None
	None	*APHA 4500-NHs C, 2005
	None	APHA 4500-NHs C, 2017
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	Nitrogen (Nitrate)	APHA D, 2017
	None	None
	Formaldehyde	In House Method IHM/008 Adopted
	None	from HACH Method 8110, DR3900
	Phosphorus	APHA 4500-P B, 2017
	None	APHA 4500-P C, 2017
	Fluoride	*APHA 4500-F C, 2005
	None	APHA 4500-F C, 2017
	None	None
	Test	sterile product (Pg.538-556)
	None	None
	Microbiological Examination of	None
	Non-Sterile Products Detection	None
	None	None
	Moisture	In-house method DCH-WI-QA104:
	None	Determination of Refractive Index in
	None	Liquids based on USP 42:
	None	None
	None	None
	None	Determination of Ash in Cocoa Products
	None	based on AOAC 972.15
	pH	USP

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	None	None
	None	AOAC 998.08 (2007
	None	AOAC Official Method 2018.13
	None	None
	E. coli	AOAC 991.14
	None	AOAC 998.08 (2007
	None	AOAC Official Method 2018.13
	None	None
	None	AOAC 998.08 (2007 AOAC Official Method 2018.13
	E. coli	AOAC 991.14
	None	AOAC 998.08 (2007
	None	AOAC 998.08 (2007)
	None	AOAC Official Method 2018.13
	None	None
	E. coli	AOAC 991.14
	None	AOAC 998.08 (2007)
	None	AOAC Official Method 2018.13
	None	0157 Test Kit
	None	None
	Escherichia coli 0157:H7	Neogen Reveal ® for E. coli
	None	0157:H7 Test Kit
	Culture	Standard Microbiology Method as Documented
	None	None
	None	Kits as Documented In HCTM/JP MD/ISO15189/BAKTE/MPT-ID
	None	HCTM/JPMD/ISO15189/BAKTE/M PT-UJ
	None	HCTM/JPMD/ISO15189/BAKTE/M PT-TP
	None	HCTM/JPMD/ISO15189/MEDIA/M PT-BKR
	None	HCTM/JPMD/ISO15189/MEDIA/M PT-BP.
	None	Analyser Vitek 2 Compact 60
	None	As documented in
	None	HCTM/JPMD/ISO15189/BAKTE/A K-02
	None	HCTM/JPMD/ISO15189/BAKTE/A K-09
	None	HCTM/JPMD/ISO15189/MEDIA/M PT-MEDIA
	None	None
	None	Microscope as Documented in
	Mycobacterium	Real-time Polymerase Chain Reaction / Rotor-

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	tuberculosis complex &	Gene Q/ Real-time PCR System as
	Nontuberculous	documented in HCTM/JPMD/UBM/MPT-06
	Kualitatif PCR	None
	None	None
	None	None
	Corrosion test expressed as mass loss	ISO 7441:2015
	None	None
	PCR for HPV Genotyping	Automated procedure using Microlab Nimbus,
	PCR for Respiratory Bacterial	Manual procedure using Geneall Ribospin, as
	PCR for Gastrointestinal	Manual procedure using Geneall Ribospin, as
	Bacterial Pathogen Panel	documented in:
	None	i) Work Instruction A12QD020
	None	ii) Technical Procedure Manual
	None	A12QT004
	PCR for Gastrointestinal Viral	Manual procedure using Geneall Ribospin , as
	Pathogen Panel	documented in:
	None	i) Work Instruction A12QD019
	None	ii) Technical Procedure Manual
	None	A12QT004
	PCR for Rapid Filmarray	Automated procedure using GeneXpert Dx, as
	Gastrointestinal Panel	documented in Work Instruction A12QD007
	Microscopic	Auramine Stain/Dagatron (1) as documented in SOP
	bacili	nan
	Culture for Isolation of	Fluorescence detection Acid fast bacilli culture
	mycobacteria	system/BACTEC 960 (1) as documented in Primary
	mycobacteria	isolation of Mycobacteria using MGIT
	mycobacteria	(GPQD/MIC/SOP-70)
	Sensitivity	Fluorescence detection Acid fast bacilli culture
	Sensitivity	system/BACTEC 960 (1) as documented in Drug
	Sensitivity	Susceptibility Test for Mycobacterium tuberculosis
	Sensitivity	(GPQD/MIC/SOP-76)
	Procedure (TCLP)	None

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	- Selenium (Se)	None
	- Silver (Ag) - Arsenic (As)	None
	Tensile Test, Bend and Rebend Test	BS EN 10080:2005 Clause 9
	recognized as safe (GRAS)	with reference to EPA 3051 A
	300 mm to 600 mm	5 yum
	300 mm to 600 mm	5 yum
	300 mm to 600 mm	5 yum
	300 mm to 600 mm	5 yum
	300 mm to 600 mm	5 yum
	300 mm to 600 mm	5 yum
	-100 °C to 1300 °C	0.70 °C
	-100 °C to 1100 °C	0.58 °C
	0 °C to 1700 °C	1.9°C
	-100 °C to 1300 °C	0.70 °C
	-100 °C to 1200 °C	0.58 °C
	0 °C to 1700 °C	1.9°C
	-80 °C to -20 °C -20°C to 5 °C	0.07 °C 0.07 °C 0.07 °C 0.07 °C
	5°C to 50°C 50°C to 100°C	0.07 °C
	100°C to 140°C	
	-20°C to 140 °C -80 °C to 140 °C to 90 °C	1.2°C
	-80 °C to -20 °C	None
	-20 °C to 140 °C	0.1 °C
	-20 °C to 140 °C	None
	-80 °C to -20 °C	None
	-20 °C to 140 °C	0.1 °C
	-20 °C to 140 °C	None
	-20 °C to 140 °C	None
	-20 °C to 140 °C	None
	-20 °C to 140 °C	None
	-100 °C to 1300 °C	0.5 °C
	-10 °C to 110 °C	0.1 °C
	-10 °C to 110 °C	0.1 °C
	-10 °C to 110 °C	None
	-100 °C to 1200 °C	0.6 °C
	-100 °C to 1300 °C	0.6 °C
	-100 °C to 400 °C	0.6 °C
	Spectrometry	None
Petroleum Products	Dynamic Viscosity and Density of Liquids	ASTM D7042-21
	Water in Petroleum Products	ASTM D95-13
	Pour Point of Petroleum	ASTM D97-17b
	Acidity	ASTM D3242
	Sediment by Extraction	ASTM D473
	Determination of Flash Point by	ASTM D 93
	Density and Relative Density of	ASTM D4052-02 (JKM 01/12) by

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Water Content	ASTM D6304-16e1 (Procedure A) (Coulometric Karl Fischer)
	Density	ASTM D4052-18
	Composition analysis C8+	In-House Method 0522 based on ASTM D5442 17 Gas Chromatography
	None	None
	None	None
	Standard Test Method for	None

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