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LABORATORY LOCATION/ CENTRAL OFFICE:	SaniChem Resources Sdn Bhd 7 & 7A, Jalan Timur 6/1A, Mercato@Enstek, Bandar Enstek, 71760 Negeri Sembilan , 71760, NEGERI SEMBILAN MALAYSIA
	
ACCREDITED SINCE :	06 APRIL 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:	SaniChem Resources Sdn Bhd 7 & 7A, Jalan Timur 6/1A, Mercato@Enstek, Bandar Enstek, 71760 Negeri Sembilan , 71760, Negeri Sembilan
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
Alcoholic Beverages	None	None
	Determination of Ethanol in	In-House Method JKM K0106 based
	None	None
	Sulfur dioxide	In-house method
	None	Determination of Ethanol using
	Gas Chromatographic	JKM K 0106
	None	None
	Ethanol	In-house Method C/FOD/030 based on Journal of Food and
	Copper, Selenium, Zinc and Total Bacteria Count	In-house method LWI-TEC-FDA-™s BAM Chapter 3

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Aqueous Solution	Clostridium perfringens	FDA-™s BAM Chapter 16
	Methanol & Ethyl Alcohol	MOH Determination of
	Ethylene Oxide	In-house Method [TM-002] based on ISO 10993-7 (2008) : Amd.1 (2019)
	Ethylene Chlorohydrin	In-house Method [TM-003] based on ISO 10993-7 (2008) : Amd.1 (2019)
	Ethylene Glycol	In-house Method [TM-003] based on ISO 10993-7 (2008) : Amd.1 (2019)
Bacteria And Yeast & Mold)	None	In-house method [TM-802] based on Public Health England. Detection and
Bacteria Identification Bacteria And Yeast	Bacteria and Yeast Identification	USP Chapter , Remel RapID panels and Biomeriux API ID strips (Miniaturized Biochemical Tests)
Canned And Bottled Drinks	None	None
Carbonated Drinks	None	None
Drinking Water Mineral Water Tap Water	Total Coliform	MS ISO 9308-1:2011
Drinks	Ethanol content	In-house Method [TM-008] based on papers in Journal of Chromatographic Science, vol. 47, pg. 272-278 (2009) and Amer. J.
	Sodium Saccharin	In-House Method SOP-0217-1022
Ethylene Oxide Gas	None	In-house Method [TM-005] based on
Fermented Drinks Energy And Health Drinks	None	Enol. Viticult., vol 25 (4), pg 202-207 (1974)
Fermented Food Products	None	None
Foods	None	None
	None	None
	None	None
	None	None
	None	None
	Test for Porcine Meat	In-House Method
	Protein Content	In-House Method
	Crude Ash	HV/TM/BCLAB/031
	Crude Ash	HV/TM/BCLAB/031
	None	In-House Method
	None	None
	Total Plate Count	HV/TM/MCLAB/001
	Detection of Staphylococcus using Petrifilm -" Colony Count	HV/TM/MCLAB/004
	None	AOAC 998.08:2005,
	None	None
	None	(Enumeration by MPN)
	Campylobacter spp.	ISO 10272-1:2006 (E)

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	None	IDF/RM 210:2006 (E)
	Formaldehyde	In-House Method, Ref. No MOH
	azelate (DEHA) -" CAS No. 000103-	In-House Method, Ref. No. MOH M03-017/ Migration Test, GCMS
	Lead (Pb)	In-House Method, Ref No.
	Total Arsenic	In-House Method, Ref. No. MOH
	Synthetic colours (13 analytes);	In-House Method, Ref. No. MOH
	Sulphathiazole	In-House Method, Ref. No.
	Total Nitrogen	JKM F 0908 based on Pearson-™s
	Rapid Determination of Thiamine	JKM F 1201: In-house based
	Determination of Vitamin A	JKM F 1203: In-house based on
	Determination of Carbohydrate	JKM F 1204: Method of Analysis for
	Determination of Total Fat in	JKM F 0925: In-house Method based
	Yeast and Mould Count	JKM M 3020
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	Macrolides:	In-house Method, Ref. No. MOH D03-
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	Nitrogen / Protein	AOCS Ac 4-91
	None	None
	None	None
	None	In-house Method, Ref. No. MOH
	None	E03-014, Determination of
	1) Methyl paraben 2) Ethyl paraben	In-house Method, Ref. No. MOH E03-019, The Determination of
	None	In-house Method, Ref. No. MOH E03-023, Determination of Maleic
	None	None
	None	Method for Acidity in

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	None	In-House Method, MOH J03-001
	None	In-House Method, MOH J03-002
	None	In-house Method, Ref. No., MOH J03-034 Determination of Caffeine
	None	None
	7) Triadimefon 8) Trans-chlordane 9) Cis-chlordane	In-house Method, Ref. No. MOH F03-009, Based on Journal of AOAC
	None	In-house Method, Ref. No. MOH
	6) Cyanofenphos 7) Chlorpyrifos methyl	In-house Method, Ref. No. MOH F03-010,
	1) Alpha HCH 2) Dichloran	None
	*Lead *Cadmium	based on AOAC 999.10,1999,
	None	In-house Method, Ref. No. MOH H03-002 Determination of Heavy
	Sucrose	AOAC 977.20, 2006,
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	Metals	In-house method LWI-MFF 021
	Sodium as Na Iron as Fe Calcium as Ca	based on AOAC 968.08 (Sample Preparation) & USEPA 6010 B
	Copper as Cu	None
	Manganese as Mn	None
	Zinc as Zn	None
	Cadmium as Cd	None
	Antimony as Sb	None
	Tin as Sn	None
	Lead as Pb	None
	Fat in Dried Milk	AOAC 932.06
Ground Water Surface Water Industrial Effluent Swimming Pool Water Waste Water	Total Coliform Count Escherichia coli Fecal coliform	In-house method [TM-701] based on APHA 9221 B,C,E,F, 23° Edition: 2017 (MPN method)
Non-halogenated Organics Residual Solvents Hydrocarbons Containing 5- 12 Carbons	Relative % purity of solvent	In-house Method [TM-004] based on US-EPA Method 8015D (2003), US-EPA Method 8000C (2003) USP Method 2007
Potable Water, Ground	Escherichia coli	Edition:2017 (Membrane Filtration
Sterilized Medical Devices	Ethylene oxide sterilization	None

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Sushi Tapai Suspected Food Products	Ethanol content	In-house Method [TM-008] based on papers in Journal of Chromatographic Science, vol. 47, pg. 272-278 (2009) and Amer. J.
Swimming Pool Water Waste Water	Total Plate Count	None
Tap Water Drinking Water	None	APHA 9215 D, 23" Edition: 2017 (Membrane Filtration Technique)
Wastewater, Potable Water, Ground Water, Surface Water	Chloride	APHA 4500-CIB (2017)
	Biochemical Oxygen Demand (3-days)	DOE Revised Standard Method for Rubber and POME
	PH (on-site & in-house)	APHA 4500-H+ (2017)
	Total Dissolved Solid	APHA 2540 C (2017)
	Total Suspended Solid	APHA 2540 D (2017)
	Hardness	APHA 2340 B (2017)
	Mercury	APHA 3112 B (2017)
	Arsenic	APHA 3114 C (2017)
	Calcium	APHA 3111 B (2017)
	Magnesium	APHA 3111 B (2017)
	Copper	APHA 3111 B (2017)
	Cadmium	APHA 3111 B (2017)
	Lead	APHA 3111 B (2017)
Water Wastewater, Potable Water, Ground Water, Surface	None	Macherey-Nagel test 102
	Chromium (III), Chromium (VI), Chromium (Total)	In-house Method, TM-013 & TM-014 based on Macherey-Nagel test 125
Water Wastewater, Potable Water, Ground Water, Surface Water	Turbidity	In-house method, TM-028 based on Macherey-Nagel test 906
	Turbidity	APHA 2130 B (2017)
	Oil and Grease	APHA 5520 B (2017)
	Chemical Oxygen Demand	APHA 5220 D (2017)
	Temperature (on-site & in- house)	APHA 2550 B (2017)
	Total Alkalinity	APHA 2320 B (2017)
	Dissolved Oxygen (on-site and in-house test)	APHA 4500-O G (2017)
	Ammonia as N	APHA 4500 NHs F (2017)
	Boron	HACH 8015
	Barium	HACH 8014
	Phenol	APHA 5530 C (2017)
	Conductivity	APHA 2510 B (2017)
	None	In house Method based on APHA
Water,	Iron	In-house method, TM-015 based on

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(total Plate Count, Aerobic Bacteria And Yeast & Mold)	Passive sampling	In-house method [TM-801] based on ISO 14698-1:2003 and USP
Biological Indicator	Sterility	In-house Method [TM-501] based on ISO 11138-1:2017
	None	In-house method [TM-506] based
Bird's Nest	None	FDA-BAM: Chapter 3
Drinking Water Mineral Water	None	None
	Oil & Grease	APHA 5520 B
Environmental Sample: Air	Active sampling	In-house method [TM-800] based on ISO 14698-1:2003 and USP
Ground Water	None	None
	None	None
	None	None
	Total Suspended Solids (TSS)	APHA 2540 D
	Free Chlorine	HACH 8021, 9 Edition (2014)
	Mercury (Hg)	In-House Method TM/WEP/012 based on Agilent Application Note
	Polynuclear Aromatic	USEPA 3510C
	Pseudomonas aeruginosa	APHA 9213 F
	None	None
	None	None
	None	None
	Tin	3120 B
	Magnesium	3120 B
	None	None
	Bacterial Endotoxins	BP 2018, Vol. XIV C, Method C:
	None	None
	pH	APHA 4500-H+ B
	None	None
	None	None
	Temperature	APHA - 2550B
	Fluoride as F	APHA - 4500F-B&D
	Cadmium as Cd	APHA - 3030 E & F (HNO ₃ or HNO ₂ -
	Barium as Ba	None
	Sodium as Na	None
	Nitrite as NO ₂	None
	Bromoform	None
	Dimethoate	None
	Gamma-lindane	None
	Acenaphthylene	None
	n-Dotriacontane	None
	(Refer Appendix II)	None
	Total Coliform	APHA - 9221B; 2017 (MPN Method)
	None	and APHA 3500 Cr B, Edition
	Acidity	APHA 2310 B, 2017
	None	None

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	None	None
	None	None
	Bromate	S-170 & APHA 4110 B
	None	None
	Color (color units)	APHA 2120 C 2017
	Oil and Grease (Mineral)	APHA 5520 F, 2017
	Metals by Inductively Coupled Plasma	APHA 3120 B
	None	None
	Faecal Coliform	APHA 9222 D
	Lead	None
	None	None
	Endosulfan Hexachlorobenzene	None
	Cobalt	APHA 3120 B, Edition
	(Refer to Appendix 8 for the list of compounds)	Method 8260C: 2006
	BODs at 20°C	APHA 5210 B & G
	None	(Membrane Filtration Method)
	None	None
	None	None
Ground Water Surface Water	None	APHA 9215 B, Edition: 2017 (Pour Plate Method)
Industrial Effluent	None	None
	Temperature	APHA 2550 B
	None	None
	Arsenic	None
	None	None
	Conductivity	APHA 2510 (APHA Method Ed. 2005)
	None	None
	Heavy Metal (Cu, Cd, Fe, Pb)	APHA 3111 B
	None	(based on MN Method 985026,
	(COD)	None
	Lead (Pb)	None
	None	None
	Metals by ICP	APHA 3120 B
	None	None
	None	2540D&E
	Aluminium, Al Chromium, Cr	None
	Fluoride	APHA 4500-F- D
	Fecal Coliform Rapid Detection	APHA 9211 B
Medical Devices	None	In-house Method [TM-500] Sterility
	In-vitro Cytotoxicity Test	ISO 10993-5:2009,
	Systemic Toxicity	ISO 10993-11:2017 Edition
	Haemolysis Study of Medical	Biological evaluation of medical
	In Vitro Cytotoxicity Test	Direct Contact Cytotoxicity
	Cytotoxicity	ISO 10993-5 (2013): Biological
	Bioburden Test- Microbial	USP 43 ,

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Sterility Tests	USP 43 ,
	Estimation of Product Bioburden	None
	Endotoxin	Test for Bacterial Endotoxin, BP
Mineral Water	None	None
	None	None
	Boron	None
	None	None
	None	None
	Aluminium	None
	None	None
	None	None
	None	None
	None	None
	Total Dissolved Solids	APHA! 2540 C
	None	None
	e Barium	None
	None	None
	Cadmium (Cd)	None
	None	None
	(VOC as listed in Appendix 3)	Spectrometry
	CaCO ₃	None
	Aluminium as Al	APHA - 3500Al-B
	Chromium as Cr	None
	None	None
	None	digestion
	Total Coliform (100 ml)	APHA - 9222B; 2017
	None	None
	Antimony as Sb	None
	Chromium Hexavalent	APHA 3500-Cr B
	None	None
	None	None
	Hexavalent Chromium	APHA 3500 Cr B, Edition
	Chloride	APHA 4500-CI B, Edition
	Fluoride as F	Ion Chromatography with Chemical
	None	None
	(Monochloramine and	None
	None	None
	None	None
	Alkalinity	APHA 2320 B, 2017
	Free Carbon Dioxide	APHA 4500-CO ₂ C, 2017
	Sodium (Na)	APHA 3120 B 2017
	None	None
	None	None
	Dieldrin	None
	None	None
	None	None
	None	None

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	None	None
	Aluminum as Al	None
	None	None
Non-potable	None	None
	None	None
	None	None
Potable	None	None
	None	None
	None	None
	(Total Alkalinity, Phenolphthalein Alkalinity, Hydroxide Alkalinity, None	APHA 2320 B
Surface (total Plate Count, Aerobic	Contact plate	In-house method [TM-804] based on ISO 14698-1:2003 and USP
Surface Water	Escherichia coli	MS ISO 9308-1:2011 (Membrane Filtration Technique)
	None	None
	Phosphate	APHA 4500-P Method D, Stannous Chloride Method, Edition
	None	APHA 4500-NOs E, 22"4 Edition,
	None	None
	None	None
	Chromium	None
	None	None
	pH Value	APHA 4500-H* (APHA Method 21*
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	e Arsenic	None
	None	None
	None	Technique
	None	None
	None	Method Edition (2005)
	Alkalinity	APHA 2320 B Titration Method 21s
	None	Method by Discrete Analyzer
	Caustic Alkalinity as CaCO ₃	APHA - 2320B
	Barium as Ba	None
	None	(MPN Technique)
	Conductivity	APHA 2510 B, 2017
	Chlorate	Metrohm IC Application, Note No.
	None	Metrohm Technical Note
	Hydrocarbon	APHA 5520 F 2017
	Vanadium (V)	APHA 3120 B, 2017
	Free Carbon Dioxide (by calculation)	APHA 4500 CO ₂ D, 2017

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	Selenium (Se) Chromium (Cr)	None
	None	None
	None	None
	None	None
	None	None
	None	None
	Ammonical Nitrogen	APHA 4500-NH3
	None	None
	Lead	APHA 3120 B
	Tin	None
	Iron	None
	Heterotropic plate count	APHA 9215 D
	Standard total coliform	APHA 9222 B
	None	None
	None	None
	pH	APHA - B
	Escherichia coli and Coliform	ISO 9308-1:2014 (E) / Enumeration by
	Bisphenol A	In-house test method MKA TMO6 based
	Total Hardness	HACH Method 8226, 8" Edition, 2015
	Hardness by Calculation	APHA 2340 B & In-house test method
	Color	HACH Method 8025, Edition, 2014
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	Determination of pH	APHA 4500-H* B, 2005
	Determination of chloride	APHA 4500-Cl B, 2005
	Determination of sulphate	APHA B, 2005
	Determination of alkalinity	APHA 2320 B, 2005
	Determination of total solids	APHA 2540 B, 2005
	pH	APHA 4500 H*B
	Color	APHA 2120 C (2017)
	Heterotrophic Plate Count	APHA 9215 B (2017)
	Standard Total Coliform	APHA 9221 B (2017)
	Escherichia coli	APHA 9221 F (2017)
	Examination for Legionella spp.	AS/NZS 3896:2008
	pneumophila	None
	Staphylococcus aureus count	APHA 9213 B (2017)
	Fecal Streptococcus	APHA 9230 C (2017)
	Pseudomonas aeruginosa	APHA 9213 F (2017)
	Identification of Escherichia coli	In-house Method GPS/QA/TM/001

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Identification of Shiga-toxigenic	In-house Method GPS/QA/TM/004
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	Ammonia	ASTM D1293
	None	None
	None	None
	None	None
	and Escherichia coli	None
	None	filtration)
	Clostridium perfringens	ISO 14189: 2013 (E)
	None	None
	None	None
	None	None
	None	(2005)
	None	21% Edition (2005)
	Colour	APHA 2120 C 2005
	Determination of Volatile	Method EPA 524.2 By Purge & Trap
	Oxygen Demand (COD) for High	APHA Method 5220D
	None	In-house Method JKM W 0502,
	None	on APHA 4110 B-"lon
	Colony Count at 36°C	JKM M 2038, ISO 6222:1999 (E)
	Intestinal Enterococci	i) WI 16 -" Sample Preparation for
	Enumeration of Clostridium	JKM M 2035
	Detection of pathogenic	JKM B 0201 Detection of pathogenic
	Identification and Quantification	JKM B 0406
	pH	APHA - 4500-H B
	None	None
	None	None
	None	None
	None	None
	Boron	HACH METHOD 8015
	None	None
	E. coli	APHA 9221 F (MPN Method)
	None	None
	Total Organic Carbon	APHA 5310 C
	Heterotropic plate count	APHA 9215 B, 22"4 Edition (2012)

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	None	(Membrane Filtration Technique)
	None	None
	Metals by ICP	None
	None	None
	None	None
	None	None
	None	None
	None	None
	pH	ASTM D 1293-2005 (Method B) APHA 4500 H* B 2005/2017
	pH	ASTM D1293-2005 (Method B) APHA 4500 H* B 2005/2017
	None	None
	Turbidity	APHA 2130B
	On-site Sampling & Testing (pH Temperature, Turbidity)	In-house Method SOP-0222-2001 & SOP-0222-2003
	Coliform	APHA 9221 B, Edition, 2005
	Heterotrophic plate count in	APHA Method 9215 D, Edition,
	None	None
	None	None
	pH Value	BS 1377-3 : 2018 Clause 12
	pH Value	BS 1377-3 : 2018 Clause 12
	None	None
	Calcium Hardness as CaCO ₃ ,	APHA 3500-Ca B, 2017
	Magnesium (by Calculation Method)	APHA 3500-Mg B, 2017
	Nitrate	APHA E, 2017
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	Aluminium	None
	None	None
	Organochlorine Pesticide	APHA 6630 B, Edition
	Ammoniacal Nitrogen	APHA F, 24" Edition
	Arsenic	APHA 3125 B, Edition
	Mercury	In-house method, SGS-TM-ENVI-003, based on APHA 3125 B

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	2,4-dichlorophenoxyacetic acid (2,4-D)	In-house method, SGS-TM-02-045, based on Agilent Application Note 5991-5731 EN (LCMSMS)
	Heavy Metals by ICP-MS	None
	Endotoxin	Test for Bacterial Endotoxin, BP 2022
	pH	APHA 4500 H*B
	Oil & Grease	APHA 5520 B
	Color	APHA 2120 B
	Color	APHA 2120 F
	pH	APHA 4500 H* B
	Turbidity	APHA 2130 B
	Conductivity	APHA 2510 B
	None	None
	None	None
	None	None
	Escherichia coli and coliform	ISO 9308-1: 2014 (E) / Enumeration
	Pseudomonas aeruginosa	ISO 16266:2006 (E) / Detection and
	Ammonium nitrogen	BS 6068: Section 2.7:1984 ISO 5664:1984
	Chemical Oxygen Demand	BS 6068: Section 2.34:1988
	Suspended solids	BS 2690-Part 120:1981
	Dissolved solids	BS 2690-Part 121:1981
	None	ASTM D 523-82
	COD	APHA 5220 D
	None	None
	Free Chlorine	APHA' 4500 -" CI G
	Count	(Pour Plate, Spread Plate and
	Anaerobes (Clostridia)	BS 6068-4:9: 1993
	Gross Alpha & Gross Beta	None
	Arsenic as As	None
	Antimony as Sb	None
	Aluminium as Al	None
	Beryllium as Be	None
	Cadmium as Cd	None
	Chromium as Cr	None
	Lead as Pb	None
	Silver as Ag	None
	Selenium as Se	None
	Thallium as Tl	None
	Mercury as Hg	In-house Method LWI-MWE 037 based on APHA 3112 B by
	Mercury as Hg	Mercury Analyser
	Nitrate	In-house Method LWI-MWE 032 based on HACH Nitrate

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	Nitrate	Test Comparator
	Sulfide	HACH Method 8131
	Chlorine, Free Residual	In-house Method LWI-MWE
	Chlorine, Free Residual	034 based on DPD-Palintest
	Chlorine, Free Residual	Test Comparator
	Total Chlorine	In-house Method LWI-MWE
	Total Chlorine	035 based on DPD-Palintest
	Total Chlorine	Test Comparator
	Colour (ADMI)	APHA 2120 F
	Heterotrophic Plate Count	None
	Pseudomonas aeruginosa	In-house Method LWI-MME (APHA) 007
	Pseudomonas aeruginosa	based on APHA 9213 E, 2020
	Escherichia coli and Coliform	Escherichia coli and Coliform Bacteria. Part 1: Membrane filtration
	Escherichia coli and Coliform	method
	Escherichia coli and Coliform	Method No: MOH (1)
	Escherichia coli and Coliform	ISO 29981 : 2010 (E), IDF 220 :
	Escherichia coli and Coliform	2010 (E) Milk Products -
	None	None
	None	None
	None	None
	None	None
Water For Injection, Potable	Endotoxin	Endotoxins Test and USP Chapter
Water, Distilled Water	(Kinetic Turbidimetric Method)	Transfusion and Infusion
Water, Surface Water	None	Technique)
	None	In-house method [TM-706] based on
Water:	None	None
	None	None
	None	None
	Color PtCo	APHA 2120 C
	Copper (Cu)	None
	pH	APHA 4500-H* B
	Temperature	APHA 2550 B
	MLSS, MLVSS	In-house Method Based on APHA
	pH	APHA 4500 H+ B

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