

NO: SAMM 1003

Page: 1 of 8

LABORATORY LOCATION/ CENTRAL OFFICE:	Renal Laboratories Sdn. Bhd. PT 42, Lengku Teknologi 4 Persiaran Teknologi 4 Techpark @ Enstek 71760 Bandar Enstek Negeri Sembilan , 71760, NEGERI SEMBILAN MALAYSIA
	
ACCREDITED SINCE :	18 MARCH 2025
FIELD(S) OF TESTING:	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).

CENTRAL LOCATION:	Renal Laboratories Sdn. Bhd. PT 42, Lengku Teknologi 4 Persiaran Teknologi 4 Techpark @ Enstek 71760 Bandar Enstek 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
Boiler Water E	Total Solids (INOPERATIVE)	APHA 2540-B, 23 rd Edition 2017 (INOPERATIVE)
Concentrates / Active	None (INOPERATIVE)	Enumeration Test – "Pour Plate" (INOPERATIVE)
Deep Well Water E	Total Dissolved Solids (INOPERATIVE)	APHA 2540-C, Edition 2017 (INOPERATIVE)
	Total Suspended Solids (INOPERATIVE)	APHA 2540-D, 23 rd Edition 2017 (INOPERATIVE)
Dialysis Fluid	None (INOPERATIVE)	None (INOPERATIVE)

Schedule

Issue date: 18 March 2025
Valid Until: -



NO: SAMM 1003

Page: 2 of 8

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Dialysis Fluid E	Total Viable Microbial Count (INOPERATIVE)	ISO 11663: Pour Plate (INOPERATIVE)
Dialysis Water E	None (INOPERATIVE)	None (INOPERATIVE)
	Bacterial Endotoxins Test (INOPERATIVE)	USP 367 Edition LAL Gel Clot Method (INOPERATIVE)
Drinking Water E	None	based on HACH 8008
	None	based on HACH 8185
	Heterotrophic Plate Count/	APHA 9215.B (Plate Count)
	None	None
	None	APHA 4500-CI.G
	None	APHA 4500-CI.G
Ground Water E	Iron, Fe	In-house Method RLS-TPM-2011
	Silica,	In-house Method RLS-TPM-2013
	Total Viable Microbial Count	ISO 13959: Membrane Filtration
Haemodialysis Concentrates	Clarity	BP 2018, App. IV A, Reference Suspensions
	Colour	BP 2018, App. IV B, Method
	pH	BP 2018, App. VL
	Identification Test	None
	Aluminium Limit Test	BP 2018, App. VII, Limit Test for Aluminium
	Assay	None
Highly Purified Water E	None	None
Highly Purified Water E Drinking Water E	Silica, SiO ₂	In-house Method RLS-TPM-2012 based on HACH 8186
Pharmaceutical Products	None	None
	None	None
	Cadmium, Lead	US EPA 6010D (Determination)
	None	None
	Arsenic	In-house Method SOP-0217-1017,
Ro Reject Water E	None	None
Ro Water E	None	None
	None	None
	None	None
Sodium Bicarbonate	Assay	BP 2018, Vol. II, Pg.
Sodium Chloride	Assay	BP 2018, Vol. II, Pg.
Water	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None

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Schedule

Issue date: 18 March 2025
Valid Until: -



NO: SAMM 1003

Page: 3 of 8

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	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
	Heterotrophic plate count	APHA 9215 B, 22"4 Edition (2012)
	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

Schedule

Issue date: 18 March 2025
Valid Until: -



NO: SAMM 1003

Page: 4 of 8

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	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
	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

Schedule

Issue date: 18 March 2025
Valid Until: -



NO: SAMM 1003

Page: 5 of 8

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	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
	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

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NO: SAMM 1003

Page: 6 of 8

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	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
Water Highly Purified Water E Dialysis Water E Tap Water E Drinking Water E	pH Conductivity	APHA 4500-H* B, 23 Edition 2017 APHA 2510 B, Edition 2017
	Aluminium, Al Arsenic, As	APHA 3125 B, Edition 2017, ICP-MS
	Manganese, Mn Mercury, Hg Molybdate, Mo	APHA 3125 B, 23" Edition 2017, ICP-MS

SCOPE OF TESTING : MICROBIOLOGICAL

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Concentrates	None (INOPERATIVE)	Enumeration Test Membrane (INOPERATIVE)
Dialysis Water	None (INOPERATIVE)	None (INOPERATIVE)
	Total Viable Count (INOPERATIVE)	APHA 9215B (2017) (INOPERATIVE)
	Endotoxin (INOPERATIVE)	USP 36 ; 2012- Bacterial (INOPERATIVE)
	Phenolphthalein Alkalinity as CaCO ₃ (INOPERATIVE)	None (INOPERATIVE)
	None (INOPERATIVE)	None (INOPERATIVE)
	Sampling procedure (INOPERATIVE)	ANSI/AAMI/ISO 23500 1:2019, Section 8.3.2 (INOPERATIVE)
	None (INOPERATIVE)	None (INOPERATIVE)
Ground Water	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

Schedule

Issue date: 18 March 2025
Valid Until: -



NO: SAMM 1003

Page: 7 of 8

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	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
	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
Haemodialysis Concentrates (liquid/powder) / Active	Bacterial Endotoxins	BP 2018, App. XIV C, Method C: Turbidimetric Kinetic Method
Highly Purified Water	None	Turbidimetric Kinetic Method
Liquid Haemodialysis	Total Aerobic Microbial Count	BP 2018, App. XVI B.2. Microbial
Medical Device /	None	None
	None	None
Pharmaceutical Ingredients	None	None
	None	None
Powder Haemodialysis	Total Aerobic Microbial Count	BP 2018, App. XVI B.2. Microbial
Ro Water	None	None
	Turbidity (Nephelometric	APHA 2130B (2017)
	None	None
	Dichloramine)	None
	Total Viable Microbial Count	ISO 23500: 2014
	Total Viable Microbial Count	AAMI/ANSI 13959: 2014
	None	None

Schedule

Issue date: 18 March 2025
Valid Until: -



NO: SAMM 1003

Page: 8 of 8

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	None	APHA 9222 D (Membrane Filtration),

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