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LABORATORY LOCATION:
(PERMANENT LABORATORY)**LABSERVICE (M) SDN. BHD.**
NO. 2-3, BEDFORD BUSINESS PARK
JALAN 3/137 B, BATU 5
JALAN KELANG LAMA
58000 KUALA LUMPUR
MALAYSIA

This laboratory accredited under *Skim Akreditasi Makmal Malaysia (SAMM)* meets the requirements of MS ISO/IEC 17025:2005 'General requirements for competence of testing and calibration laboratories'. This Malaysian Standards is identical with ISO/IEC 17025:2005 published by the International Organization for Standardization (ISO).

FIELD OF TESTING: CHEMICAL**SCOPE OF ACCREDITATION:**

Materials / Products Tested	Type Of Tests / Properties Measured / Range of Measurement	Standard Test Methods / Equipment / Techniques
Water for Hemodialysis purpose :- 1. RO Water 2. DI Water	Fluoride Nitrate Sulphate Copper Zinc Barium Calcium Magnesium Sodium Potassium Arsenic Mercury pH value Total Dissolved Solids Total Hardness	HACH SPADNS Methods HACH Cadmium Reduction Methods HACH Sulfamer 4 Methods APHA 3120 B (ICP), 21 st Edition APHA 3114 B (AAS), 21 st Edition In-house method, LS-TM-02-023, based on APHA 3112 B, 21 st Edition APHA 4500 H ⁺ B, 21 st Edition APHA 2540 C, 21 st Edition APHA 2340 C, 21 st Edition



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FIELD OF TESTING: CHEMICAL**SCOPE OF ACCREDITATION:**

Materials / Products tested	Type of tests / Properties measured / Range of measurement	Standard test methods / Equipment / Techniques
Water for Hemodialysis purpose :- 1. RO Water 2. DI Water	Free Chlorine Chloramines Sampling	APHA 4500-Cl G, 21 st Edition APHA 4500-Cl G, 21 st Edition SOP-0222-001, In-house based on AAMI Recommend Practise, ANSI/AAMI RD52:2004
Dialysate	Sampling	SOP-0222-001, In-house based on AAMI Recommend Practise, ANSI/AAMI RD52:2004
Industrial Effluent, Cooling Tower Water, River Water, Ground Water	pH COD BOD5 Suspended solids Oil and Grease Lead Iron Tin Nickel Manganese Zinc Chromium Mercury Free Chlorine Chloramine	APHA 4500 H ⁺ B, 21 st Edition APHA 5220 C, 21 st Edition APHA 5210 B, 20 th Edition APHA 2540 D, 21 st Edition APHA 5520 B, 20 th Edition APHA 3120 B (ICP), 21 st Edition In-house method, LS-TM-02-023, based on APHA 3112B, 21 st Edition APHA 4500-Cl G, 21 st Edition APHA 4500-Cl G, 21 st Edition



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FIELD OF TESTING: CHEMICAL**SCOPE OF ACCREDITATION:**

Materials / Products tested	Type of tests / Properties measured / Range of measurement	Standard test methods / Equipment / Techniques
Reverse Osmosis Water, Deionized Water, Distilled Demineralized Water, Ground Water, Processed Water, Drinking Water, Potable and Domestic Water, Mineral Water and Surface Water	Fluoride Nitrate Sulphate Chloride Phosphate Nitrite Bromide Alkalinity Chloride Colour Turbidity Anionic Surfactants as MBAS Nitrite Nitrogen	APHA 4110 B (IC), 21 st Edition APHA 2320 B, 21 st Edition APHA 4500-Cl ⁻ B, 21 st Edition APHA 2120 B, 20 th Edition APHA 2130 B, 21 st Edition APHA 5540 C, 21 st Edition In-house Method, LS-TM-02-036 based on Method 8507, HACH
Distilled water, Pharmaceutical Water, Portable Water, Reverse Osmosis Water, Ultra Pure Water and Deionized Water	Beryllium Cadmium Lead Zinc Aluminium Chromium Copper Barium Silver Thallium Antimony Selenium Arsenic	APHA 3125 B (ICP-MS), 21 st Edition

Signatories:

- | | |
|---------------------|-------------------------------|
| 1. Khoo Cheng Seang | IKM No.: AMIC 0941/0415/75/88 |
| 2. Leong Kit Yean | IKM No.: LMIC 1444/4635/2004 |
| 3. Lee Tai Wai | IKM No.: LMIC 1398/4521/2004 |
| 4. Chia Su Chein | IKM No.: L4992/2006 |



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FIELD OF TESTING: MICROBIOLOGY**SCOPE OF ACCREDITATION:**

Materials / Products tested	Type of tests / Properties measured / Range of measurement	Standard test methods / Equipment / Techniques
Water for Hemodialysis Purpose:- 1.RO Water 2.DI Water 3.Portable Water	Total Aerobic Plate Count Endotoxin	APHA 9215 B, 21 st Edition Multi-test Limulus Amebocyte Lysate (LAL) Pyrogen Ultra Kit by Bio-Whittaker
Water for Hemodialysis Purpose:- 1.RO Water 2.DI Water Medical Devices	Total Viable Microbial Count Endotoxin Sampling Endotoxin	AAMI Recommend Practise, ANSI / AAMI RD52:2004 (7.2.3) Limulus Amebocyte Lysate (LAL) Kinetic Turbimetric by CAMBEX SOP-0222-001, In-house based on AAMI RecommendPractice, ANSI / AAMI RD52:2004 Multi-test Limulus Amebocyte Lysate (LAL) Pyrogen Ultra Kit by Bio-Whittaker
Dialysate	Sampling	SOP-0222-001, In-house based on AAMI Recommend Practice, ANSI / AAMI RD52:2004



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FIELD OF TESTING: MICROBIOLOGY**SCOPE OF ACCREDITATION:**

Materials / Products tested	Type of tests / Properties measured / Range of measurement	Standard test methods / Equipment / Techniques
Portable Water, Drinking Water, Mineral Water, Swimming Pool Water, DI Water, RO Water	Total Coliform Count Total Fecal Coliform Total <i>E.coli</i> Count	APHA 9221 B, 21 st Edition APHA 9221 E, 21 st Edition APHA 9221 F, 20 th Edition

Note:

APHA - American Public Health Association

ANSI/AAMI - American National Standard Institute/Association for the Advancement of Medical
Instrument**Signatories:**

1. Khoo Cheng Seang **IKM No.: AMIC 0941/0415/75/88**
2. Nasriyanti Md. Nongin
3. Moira Lim Pek Eng

