Issue date: 11 December 2025
Valid until: 26 May 2029

NO: SAMM 418
Issue 02, 11 December 2025 replacement
of SAMM 418 14 October 2024 dated)

LABORATORY LOCATION:
(PERMANENT LABORATORY)

PREMIER INTEGRATED LABS SDN BHD
(IPOH BRANCH)
4TH FLOOR, PANTAI HOSPITAL IPOH
126 JALAN TAMBUN
31400 IPOH
PERAK
MALAYSIA

FIELDS OF MEDICAL TESTING: **CHEMICAL PATHOLOGY, HAEMATOLOGY & MEDICAL MICROBIOLOGY**

The standard used for assessment of this laboratory is MS ISO 15189:2022 (ISO 15189:2022, IDT).

A medical laboratory's fulfilment of the requirements of ISO 15189 means the laboratory meets both the technical competence requirements and the management system requirements necessary for it to consistently deliver technically valid test results. The management system requirements in ISO 15189 are written in language relevant to a medical laboratory's operations. Medical laboratories that implement ISO 15189 operate generally in accordance with the principles of ISO 9001. (See Joint IAF-ILAC-ISO Communiquè dated November 2021).

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SCOPE OF MEDICAL TESTING: CHEMICAL PATHOLOGY

Specimen Tested	Type of Test/ Properties Measured/	Test Methods, Specifications/ Equipment/Techniques Used
Whole Blood	Glycated Haemoglobin (HbA1c)	Ion- Exchange High Performance Liquid Chromatography (HPLC) method using Biorad D-10 hemoglobin Testing System as documented in Biochemistry Procedures Manual (V2 of 2) CP209
Serum/ Plasma	Alanine Aminotransferase (ALT)	Modified Wroblewski and LaDue, modified IFCC without P5P method using Atellica Chemistry as documented in Biochemistry Procedure Manual chapter CP209
	Albumin (ALB)	Bromocresol Purple solution (BCP) dye binding method using Atellica Chemistry as documented in Biochemistry Procedure Manual chapter CP358
	Alkaline Phosphatase (ALP)	Bowers and McComb, IFCC standardization method using Atellica Chemistry as documented in Biochemistry Procedure Manual chapter CP282

SCOPE OF MEDICAL TESTING: CHEMICAL PATHOLOGY

Specimen Tested	Type of Test/ Properties Measured/	Test Methods, Specifications/ Equipment/Techniques Used
Serum/ Plasma	Amylase	Ion- Exchange High Performance Liquid Chromatography (HPLC) method using Biorad D-10 hemoglobin Testing System as documented in Biochemistry Procedures Manual (V2 of 2) CP209
	Aspartate Aminotransferase	Modified IFCC, without P5P method using Atellica Chemistry as documented in Biochemistry Procedure Manual chapter CP285
	Bilirubin (Total)	Vanadate oxidation method using Atellica Chemistry as documented in Biochemistry Procedure Manual chapter CP300
	Calcium	Arsenazo III method using Atellica Chemistry as documented in Biochemistry Procedure Manual chapter CP286
	Chloride	Indirect Integrated Multisensor Technology (IMT) using Atellica Chemistry as documented in Biochemistry Procedure Manual chapter CP283
	Cholesterol (Total)	Enzymatic cholesterol oxidase, esterase, peroxidase method using Atellica Chemistry as documented in Biochemistry Procedure Manual chapter CP287
	Creatine Kinase MB Isoenzyme (CKMB)	Chemiluminescence method using Atellica Immunology as documented in Biochemistry Procedure Manual chapter CP288
	Creatine Kinase (CK)	Modified IFCC method using Atellica Chemistry as documented in8Biochemistry Procedure Manual chapter CP287
	Creatinine	Enzymatic method using method using Atellica Chemistry as documented in Biochemistry Procedure Manual chapter CP324
	Gamma-Glutamytranspeptidase (GGT)	L-y-glutamyl-3-carboxy-4-nitroanilide substrate reaction/ IFCC method using Atellica Chemistry as documented in Biochemistry Procedure Manual chapter CP292

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SCOPE OF MEDICAL TESTING: CHEMICAL PATHOLOGY

Specimen Tested	Type of Test/ Properties Measured/	Test Methods, Specifications/ Equipment/Techniques Used
Serum/ Plasma	Glucose	Hexokinase method using Atellica Chemistry as documented in Biochemistry Procedure Manual chapter CP293
	HDL Cholesterol	Elimination/ Catalase method using Atellica Chemistry as documented in Biochemistry Procedure Manual chapter CP90
	Lactate Dehydrogenase	Lactate to pyruvate, nicotinamide adenine dinucleotide (NAD) method using Atellica Chemistry as documented in Biochemistry Procedure Manual chapter CP297
	Phosphate (Inorganic)	Phosphomolybdate method using Atellica Chemistry as documented in Biochemistry Procedure Manual chapter CP295
	Potassium	Indirect Integrated Multisensor Technology (IMT) using Atellica Chemistry as documented in Biochemistry Procedure Manual chapter CP283
	Sodium	Indirect Integrated Multisensor Technology (IMT) using Atellica Chemistry as documented in Biochemistry Procedure Manual chapter CP283
	Total Protein	Biuret reaction method using Atellica Immunology as documented in Biochemistry Procedure Manual chapter CP302
	Triglyceride	Glycerol Phosphate Oxidase reaction method using Atellica Chemistry as documented in8Biochemistry Procedure Manual chapter CP305
	Urea Nitrogen (BUN)	Urease/ glumate dehydrogenase reaction method using method using Atellica Chemistry as documented in Biochemistry Procedure Manual chapter CP306
	Uric Acid	Uricase method using Atellica Chemistry as documented in Biochemistry Procedure Manual chapter CP307
Urine	Urine FEME	Automated Reflectance Spectroscopy method using Clinitek Novus as documented in Microbiology Procedure manual chapter VP208

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SCOPE OF MEDICAL TESTING: CHEMICAL PATHOLOGY

Specimen Tested	Type of Test/ Properties Measured/	Test Methods, Specifications/ Equipment/Techniques Used
Special Chemistry Serum/ Plasma	Alpha-fetoprotein (AFP)	Chemiluminescence method using Attelica Immunology as documented in Immunology Procedure Manual Chapter UP700
	Total HCG	Chemiluminescence method using Attelica Immunology as documented in Immunology Procedure Manual Chapter UP742
	CA125	Chemiluminescence method using Attelica Immunology as documented in Immunology Procedure Manual Chapter UP706
	CA153	Chemiluminescence method using Attelica Immunology as documented in Immunology Procedure Manual Chapter UP707
	CA19-9	Chemiluminescence method using Attelica Immunology as documented in Immunology Procedure Manual Chapter UP708
	CEA	Chemiluminescence method using Attelica Immunology as documented in Immunology Procedure Manual Chapter UP709
	Free T3	Chemiluminescence method using Attelica Immunology as documented in Immunology Procedure Manual Chapter UP718
	Free T4	Chemiluminescence method using Attelica Immunology as documented in Immunology Procedure Manual Chapter UP717
	Prostate Specific Antigen (PSA), Total	Chemiluminescence method using Attelica Immunology as documented in Immunology Procedure Manual Chapter UP734
	Thyroid Stimulating Hormone (TSH)	Chemiluminescence method using Attelica Immunology as documented in Immunology Procedure Manual Chapter UP741

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SCOPE OF MEDICAL TESTING: HAEMATOLOGY

Specimen Tested	Type of Test/ Properties Measured/	Test Methods, Specifications/ Equipment/Techniques Used
Whole Blood	Full Blood Count (FBC)	Fluorescence flow cytometry, hydrodynamic focusing and Cyanide-free SLS method using Sysmex XN1000 and Sysmex XN550 as documented in Haematology Procedure Manual chapter YP037 and YP036
	Cross-matching	Column Agglutination Technology method as documented in Blood Bank Procedure Manual, BP026
	ABO and Rh (D) Blood Grouping	Manual Tube Method as documented in Blood Bank Procedure Manual BP020
		Semi-automated column agglutination method as documented in Blood Bank Procedure Manual, BP124
	Direct Antiglobulin Test	Column Agglutination Technology method as documented in Blood Bank Procedure Manual, BP085
Serum / Plasma	Antibody Screening / Indirect Antiglobulin Test	Column Agglutination Technology method as documented in Blood Bank Procedure Manual, BP005

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SCOPE OF MEDICAL TESTING: MEDICAL MICROBIOLOGY

Specimen Tested	Type of Test/ Properties Measured/	Test Methods, Specifications/ Equipment/Techniques Used
Serum / Plasma	Syphilis (Antibodies to Treponema Pallidum)	Chemiluminometric method using Attelica Immunology as documented in Immunology Procedures Manual chapter UP738
	Hepatitis B (s) Antigen	Chemiluminescent method using Attelica Immunology as documented in Immunology Procedures Manual chapter UP723
	Hepatitis B (s) Antibody	Chemiluminescent method using Attelica Immunology as documented in Immunology Procedures Manual chapter UP703
	Hepatitis C (s) Antibody	Indirect two-wash sandwich immunoassay Chemiluminescent method using Attelica Immunology as documented in Immunology Procedures Manual chapter UP719

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