Issue date: 11 December 2025
Valid until: 02 March 2028

NO: SAMM 961
Issue 02, 11 December 2025 replacement
of SAMM 961 dated 30 June 2023)

LABORATORY LOCATION:
(PERMANENT LABORATORY)

PREMIER INTEGRATED LABS SDN BHD
(KLANG BRANCH)
NO. 125, GROUND FLOOR
LEBUH TURI OFF
PERSIARAN RAJA MUDA MUSA
41200 KLANG
SELANGOR
MALAYSIA

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

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: HAEMATOLOGY

Specimen Tested	Type of Test / Properties Measured	Test Methods, Specification/ Equipment/Technique Used
Whole Blood	Full Blood Count (FBC)	Fluorescent flow cytometry, hydrodynamic focusing and Cyanide-free SLS method using Sysmex XN 1000 and Sysmex XN 350 analyzers as documented in Haematology Procedure Manual Chapter YP037 and YP036
Plasma	Activated Partial Thromboplastin Time (APTT)	Absorbance (End-point, kinetic) method by CL Analyser as documented in Haematology Procedure manual Chapter YP155
	Prothrombin Time (PT)	Absorbance (End-point, kinetic) method by CL Analyser as documented in Haematology Procedure manual Chapter YP156
Immunohaematology		
Whole Blood	ABO & Rh D Blood Grouping	Manual tube method as documented in Blood Bank Procedure Manual Chapter BP020
	Cross-matching	Column Agglutination (gel card) method as documented in Blood Bank Procedure Manual Chapter BP026

SCOPE OF MEDICAL TESTING: CHEMICAL PATHOLOGY

Specimen Tested	Type of Test / Properties Measured	Test Methods, Specification/ Equipment/Technique Used
Serum / Plasma	Alanine Aminotransferase (ALT)	Modified Wroblewski and LaDue, modified IFCC, with P5P method using Dimension Chemistry System as documented in Biochemistry Procedure manual chapter CP010
	Albumin	Bromocresol Purple (BCP) dye binding method Dimension Chemistry System as documented in Biochemistry Procedure manual chapter CP015
	Alkaline Phosphatase (ALP)	Bowers and McComb, IFCC standardization method using Dimension Chemistry System as documented in Biochemistry Procedure manual chapter CP020
	Amylase	Hydrolysis of CNPG3 method using Dimension Chemistry System as documented in Biochemistry Procedure manual chapter CP025
	Aspartate Aminotransferase (AST)	Modified IFCC, with P5P method using Dimension Chemistry System as documented in Biochemistry Procedure manual chapter CP035
	Bilirubin (Total)	Modified Diazo method using Dimension Chemistry System as documented in Biochemistry Procedure manual chapter CP135
	Calcium	Modification of the calcium o-cresolphthalein complexone (OCPC) reaction method using Dimension Chemistry System as documented in Biochemistry Procedure manual chapter CP040
	Chloride	Indirect Integrated Multisensor Technology (IMT) method using Dimension Chemistry System as documented in Biochemistry Procedure manual chapter CP075
	Cholesterol (Total)	Enzymatic cholesterol oxidase, esterase, peroxidase method using Dimension Chemistry System as documented in Biochemistry Procedure manual chapter CP050
	Creatine Kinase MB Isoenzyme (CKMB)	Modified IFCC CK Primary Reference method using Dimension Chemistry System as documented in Biochemistry Procedure manual chapter CP060
	Creatine Kinase (CK)	IFCC Primary Reference method using Dimension Chemistry System as documented in Biochemistry Procedure manual chapter CP055

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SCOPE OF MEDICAL TESTING: CHEMICAL PATHOLOGY

Specimen Tested	Type of Test / Properties Measured	Test Methods, Specification/ Equipment/Technique Used
Serum / Plasma	Creatinine	Kinetic Alkaline Picrate (modified Jaffe) method using Dimension Chemistry System as documented in Biochemistry Procedure manual chapter CP065
	GammaGlutamyltranspeptidase (GGT)	L-γ-glutamyl-3-carboxy-4-nitroanilide substrate reaction/IFCC method using Dimension Chemistry System as documented in Biochemistry Procedure manual chapter CP085
	Glucose	Hexokinase method using Dimension Chemistry System as documented in Biochemistry Procedure manual chapter CP090
	HDL Cholesterol	PEG – modified Cholesterol esterase, oxidase, peroxidase, end point method using Dimension Chemistry System as documented in Biochemistry Procedure manual chapter CP037
	Lactate Dehydrogenase	Lactate to pyruvate. Nicotinamide adenine dinucleotide (NAD) method using Dimension Chemistry System as documented in Biochemistry Procedure manual chapter CP100
	Phosphate (Inorganic)	Phosphomolybdate method using Dimension Chemistry System as documented in Biochemistry Procedure manual chapter CP125
	Potassium	Indirect Integrated Multisensor Technology (IMT) method using Dimension Chemistry System as documented in Biochemistry Procedure manual chapter CP075
	Sodium	Indirect Integrated Multisensor Technology (IMT) method using Dimension Chemistry System as documented in Biochemistry Procedure manual chapter CP075
	Total Protein	Biuret reaction method using Dimension Chemistry System as documented in Biochemistry Procedure manual chapter CP140
	Triglyceride	Glycerol Phosphate Oxidase reaction method using Dimension Chemistry System as documented in Biochemistry Procedure manual chapter CP145

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SCOPE OF MEDICAL TESTING: CHEMICAL PATHOLOGY

Specimen Tested	Type of Test / Properties Measured	Test Methods, Specification/ Equipment/Technique Used
Serum / Plasma	Urea Nitrogen	Urease/glutamate dehydrogenase method using Dimension Chemistry System as documented in Biochemistry Procedure manual chapter CP150
	Uric Acid	Uricase Method using Dimension Chemistry System as documented in Biochemistry Procedure Manual chapter CP155

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