

NO: SAMM 1105(Issue 03, 31 March 2026 replacement
of SAMM 1105 dated 09 October 2024)

Page: 1 of 4

LABORATORY LOCATION:
(PERMANENT LABORATORY)

**PREMIER INTEGRATED LABS
(PANTAI HOSPITAL MANJUNG BRANCH)
1ST FLOOR, PANTAI HOSPITAL MANJUNG
JALAN PPMP 1, PUSAT PERNIAGAAN
MANJUNG POINT
32040 SERI MANJUNG
PERAK
MALAYSIA**

FIELD(S) OF MEDICAL TESTING: CHEMICAL PATHOLOGY & HAEMATOLOGY

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 Communiqué dated November 2021).

SCOPE OF MEDICAL TESTING: CHEMICAL PATHOLOGY

Specimen Tested	Type of Test/ Properties Measured	Test Methods, Specifications/ Equipment/Techniques Used
General Chemistry Serum / Plasma	Alanine Transaminase (ALT)	Modified Wroblewski and LaDue modified IFCC without P5P method using Atellica CI Analyzer as documented in Biochemistry Procedures Manual chapter CP365
	Albumin	Bromocresol Purple (BCP) Dye Binding method using Atellica CI Analyzer as documented in Biochemistry Procedures Manual chapter CP359
	Alkaline Phosphatase (ALP)	Bowers and McComb, IFCC standardization method using Atellica CI Analyzer as documented in Biochemistry Procedures Manual chapter CP360
	Amylase	Ethylidene Blocked – pNPG7 method using Atellica CI Analyzer as documented in Biochemistry Procedures Manual chapter CP361
	Aspartate Aminotransferase (AST)	Modified IFCC without P5P method using Atellica CI Analyzer as documented in Biochemistry Procedures Manual chapter CP361

NO: SAMM 1105(Issue 03, 31 March 2026 replacement
of SAMM 1105 dated 09 October 2024)

Page: 2 of 4

SCOPE OF MEDICAL TESTING: CHEMICAL PATHOLOGY

Specimen Tested	Type of Test/ Properties Measured	Test Methods, Specifications/ Equipment/Techniques Used
General Chemistry Serum / Plasma	Bilirubin (Total)	Vanadate Oxidation method using Atellica CI Analyzer as documented in Biochemistry Procedures Manual chapter CP375
	Calcium	Arsenazo III method using Atellica CI Analyzer as documented in Biochemistry Procedures Manual chapter CP363
	Chloride	Indirect Integrated Multisensor Technology (IMT) method using Atellica CI Analyzer as documented in Biochemistry Procedures Manual chapter CP374
	Cholesterol (Total)	Enzymatic Cholesterol Oxidase, Esterase, Peroxidase method using Atellica CI Analyzer as documented in Biochemistry Procedures Manual chapter CP364
	Creatine Kinase MB Isoenzyme (CKMB)	Chemiluminescence method using Atellica CI Analyzer as documented in Biochemistry Procedures Manual chapter UP810
	Creatinine Kinase (CK)	Modified IFCC method using Atellica CI Analyzer as documented in Biochemistry Procedures Manual chapter CP366
	Creatinine	Enzymatic method using Atellica CI Analyzer as documented in Biochemistry Procedures Manual chapter CP367
	Gamma-Glutamyl Transferase (GGT)	L-y-glutamyl-3-carboxy-4-nitroanilide substrate reaction / IFCC method using Atellica CI Analyzer as documented in Biochemistry Procedures Manual chapter CP383
	Glucose	Hexokinase method Atellica CI Analyzer as documented in Biochemistry Procedures Manual chapter CP370
	HDL Cholesterol	Elimination/ catalase method using Atellica CI Analyzer as documented in Biochemistry Procedures Manual chapter CP0371

NO: SAMM 1105

(Issue 03, 31 March 2026 replacement
of SAMM 1105 dated 09 October 2024)

Page: 3 of 4

SCOPE OF MEDICAL TESTING: CHEMICAL PATHOLOGY

Specimen Tested	Type of Test/ Properties Measured	Test Methods, Specifications/ Equipment/Techniques Used
General Chemistry Serum / Plasma	Lactate Dehydrogenase	Lactate to Pyruvate, Nicotinamide Adenine Dinucleotide (NAD) method using Atellica CI Analyzer as documented in Biochemistry Procedures Manual chapter CP372
	Phosphate (inorganic)	Phosphomolybdate method using Atellica CI Analyzer as documented in Biochemistry Procedures Manual chapter CP373
	Potassium	Indirect Integrated Multisensor Technology (IMT) method using Atellica CI Analyzer as documented in Biochemistry Procedures Manual chapter CP374
	Sodium	Indirect Integrated Multisensor Technology (IMT) method using Atellica CI Analyzer as documented in Biochemistry Procedures Manual chapter CP374
	Total Protein	Biuret Reaction method using Atellica CI Analyzer as documented in Biochemistry Procedures Manual chapter CP384
	Triglycerides	Glycerol Phosphate Oxidase Reaction method using Atellica CI Analyzer as documented in Biochemistry Procedures Manual chapter CP377
	Urea Nitrogen (BUN)	Urease/Glutamate Dehydrogenase method using Atellica CI Analyzer as documented in Biochemistry Procedures Manual chapter CP378
Whole Blood	Uric Acid	Uricase method using Atellica CI Analyzer as documented in Biochemistry Procedures Manual chapter CP379
	Glycated Haemoglobin (HbA1c)	Ion-Exchange High Performance Liquid Chromatography (HPLC) method using Biorad D-10 hemoglobin Testing System as documented in Biochemistry Procedure Manual chapter CP209
Urine	Urine FEME	Semi-Automated Reflectance Spectroscopy method using Clinitek Advantus as documented in Microbiology Procedure Manual chapter VP208

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NO: SAMM 1105(Issue 03, 31 March 2026 replacement
of SAMM 1105 dated 09 October 2024)

Page: 4 of 4

SCOPE OF MEDICAL TESTING: HAEMATOLOGY

Specimen Tested	Type of Test/ Properties Measured	Test Methods, Specifications/ Equipment/Techniques Used
Immunohaematology Whole Blood	ABO and RhD Blood Grouping	Manual tube method as documented in Blood Bank Operation Procedure Manual chapter BP020.
	Cross-matching	Column Agglutination (gel card) method as documented in Blood Bank Procedure Manual chapter BP026.
	Direct Antiglobulin Test	Column Agglutination (gel card) method as documented in Blood Bank Procedure Manual, chapter BP085
Serum / Plasma	Antibody Screening / Indirect Antiglobulin Test	Column Agglutination (gel card) method as documented in Blood Bank Procedure Manual chapter BP005.
Routine Haematology Whole Blood	Full Blood Count (FBC)	Fluorescence Flow Cytometry, Hydrodynamic focusing and Cyanide-free SLS method using Sysmex XN1000 analyzer as documented in Haematology Procedure Manual chapter YP037.