Issue date: 05 June 2025

Valid Until: -



NO: SAMM 705

Page: 1 of 15

LABORATORY LOCATION: (PERMANENT LABORATORY) ACCREDITED SINCE: FIELD(S) OF MEDICAL TESTING:	Jabatan Patologi, Hospital Sultanah Nur Zahirah Jalan Sultan Mahmud, 20100 Kuala Terengganu, Terengganu , 20100, TERENGGANU MALAYSIA 05 JUNE 2025
SITE: 1 . SITE LABORATORY(HQ) :	DEPARTMENT OF PATHOLOGY
FIELD(S) OF MEDICAL TESTING:	CHEMICAL PATHOLOGY, CYTOPATHOLOGY, HAEMATOLOGY, HI STOPATHOLOGY, MEDICAL MICROBIOLOGY, MEDICAL MICROBIOLOGY (BACTERIOLOGY)

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, November 2021)

Valid Until: -



NO: SAMM 705

Page: 2 of 15

CENTRAL LOCATION	Jabatan Patologi, Hospital Sultanah Nur Zahirah Jalan Sultan Mahmud, 20100 Kuala Terengganu, Terengganu , 20100, Terengganu
FIELD(S) OF MEDICAL TESTING:	
SITE LOCATION (HO)	1 DEDARTMENT OF DATHOLOGY

SITE LOCATION (HQ)	1. DEPARTMENT OF PATHOLOGY
FIELD(S) OF MEDICAL TESTING:	· · · · · · · · · · · · · · · · · · ·
	PATHOLOGY,HAEMATOLOGY,MEDICAL MICROBIOLOGY,MEDICAL MICROBIOLOGY

FIELD(S) OF MEDICAL TESTING: CYTOPATHOLOGY

Specimen Tested	Type Of Test / Properties	Test Methods, Specifications/
	Measured	Equipment/Techniques Used
Gynaecological Cytopathology (gyn Cytopathology)	Gynaecological Cytology Examination	Specimen Preparation and Staining / Conventional Smear + Papanicolaou Staining Method as
		documented in: WP/SS/001 Pengendalian Spesimen Sitologi WP/SS/004 Pengendalian Kawalan Mutu Dalam dan Luaran
		WI/SS/001 Penyediaan Slaid Gynae WI/SS/004 Pencelupan Papanicolaou WI/SS/007 Penyimpanan dan Pelupusan di Unit Sitologi
Non-gynaecological Cytopathology (non-gyn Cytopathology)	Non-Gynaecological Cytology Examination	Method as documented in: WP/SS/001 Pengendalian Spesimen Sitologi WI/SS/002 Penyediaan Slaid Non Gynae WI/SS/004 Pencelupan Papanicolaou WI/SS/005 Pencelupan May Grunwald Giemsa WI/SS/007 Penyimpanan dan Pelupusan di Unit Sitologi

Issue date: 05 June 2025

Valid Until: -



NO: SAMM 705

Page: 3 of 15

Fine Needle Aspiration Cytology (fnac)	FNA Cytology Examination	Method as documented in: WP/SS/001 Pengendalian Spesimen Sitologi WP/SS/003 Penyediaan Spesimen FNA (Fine Needle Aspiration) WI/SS/004 Pencelupan Papanicolaou WI/SS/005 Pencelupan May Grunwald Giemsa WI/SS/007 Penyimpanan dan
		WI/SS/007 Penyimpanan dan Pelupusan di Unit Sitologi

Valid Until: -



NO: SAMM 705

Page: 4 of 15

FIELD(S) OF MEDICAL TESTING: HISTOPATHOLOGY

Specimen Tested	Type Of Test / Properties Measured	Test Methods, Specifications/ Equipment/Techniques Used
Diagnostic Histopathology Formalin-fixed Tissue	Specimen Preparation and Examination of Tissue: Grossing Tissue Processing Tissue Embedding Tissue Sectioning Decalcification Mounting of Slide	Manual Method as documented in WI/HS/001 and WI/HS/002 Automated Method by using tissue processor Epredia Excelsior US as documented in WI/HS/002
	Staining of Slides • Routine Haematoxylin and Eosin	Manual and Semi Automated Method by using Sakura Autostainer as documented in WI/HS/003
	Special staining Histochemistry Immunohistochemistry	Manual Method as documented in WI/HS/007/1 - WI/HS/007/20 Manual Method and Semi Automated Metho by using Dako
	Clinical Interpretation and Reporting	Autostainer as documented in WI/HS/008 As documented in:
Intrapporative Frozen Sections	. 0	WP/HS/002 (LIS) WP/HS/003 (Reporting) Hirisan Beku as documented in
Intraoperative Frozen Sections For Fresh Tissue Specimens And Biopsies	Specimen Preparation and Staining (manual)	WI/HS/005

Valid Until: -



NO: SAMM 705

Page: 5 of 15

FIELD(S) OF MEDICAL TESTING: CHEMICAL PATHOLOGY

Specimen Tested	Type Of Test / Properties Measured	Test Methods, Specifications/ Equipment/Techniques Used
Routine Chemistry	ALT	UV without P5P method by using
Serum/ Plasma		analyzer AU5800 as documented
		in WP/CP/001 Pengendalian
		Spesimen Patologi Kimia
	Albumin	Bromocresol Green by using
		analyzer AU5800 as documented
		in WP/CP/001 Pengendalian
		Spesimen Patologi Kimia
	Alkaline Phosphatase (ALP)	IFCC Method by using analyzer
	/ intainie i riespriataes (/ izi /	AU5800 as documented in
		WP/CP/001 Pengendalian
		Spesimen Patologi Kimia
	Amylase	IFCC Method by using analyzer
	Alliyidae	AU5800 as documented in
		WP/CP/001 Pengendalian
		Spesimen Patologi Kimia
	Aspartate Aminotrasferase (AST)	IFCC Method by using analyzer
	Aspartate Aminotrasierase (AST)	AU5800 as documented in
		WP/CP/001 Pengendalian
		Spesimen Patologi Kimia
	Bilirubin, Direct	Dichlorophenyl Diazonium
	Billiubili, Direct	Tetraflouroborate (DPD) by using
		analyzer AU5800 as documented
		in WP/CP/001 Pengendalian
	Diliminia Total	Spesimen Patologi Kimia
	Bilirubin, Total	Dichlorophenyl Diazonium
		Tetraflouroborate (DPD) Method
		by using analyzer AU5800 as
		documented in WP/CP/001
		Pengendalian Spesimen Patologi
		Kimia
	Calcium	Arsenazo II by using analyzer
		AU5800 as documented in
		WP/CP/001 Pengendalian
		Spesimen Patologi Kimia
	Chloride	ISE Method, Indirect by using
		analyzer AU5800 as documented
		in WP/CP/001 Pengendalian
		Spesimen Patologi Kimia
	Cholesterol, Total	CHOD-PAP Method by using
		analyzer AU5800 as documented
		in WP/CP/001 Pengendalian
		Spesimen Patologi Kimia

Issue date: 05 June 2025

Valid Until: -



NO: SAMM 705

Page: 6 of 15

Creatinine Alkaline Picrate No Proteinization by using analyzer AU5800 as documented in WP/CP/001 Pengendalian Spesimen Patolog Kimia Gamma Glutamyl Transferase (GGT) IFCC Method by using analyzer AU5800 as documented in WP/CP/001 Pengendalian Spesimen Patologi Kimia HDL-Cholesterol Direct Immuno-Inhibition Method by using analyzer AU5800 as documented in WP/CP/001 Pengendalian Spesimen Patolog Kimia Iron TPTZ Chromogen Method by using analyzer AU5800 as documented in WP/CP/001 Pengendalian Spesimen Patolog Kimia Lactate Dehydrogenase (LD) IFCC Method by using analyzer AU5800 as documented in IFCC Method by using analyzer AU5800 as documented in
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/ 100000 as accamented in
WP/CP/001 Pengendalian
Spesimen Patologi Kimia
Magnesium Xylidyl Blue Method by using
analyzer AU5800 as documented
in WP/CP/001 Pengendalian
Spesimen Patologi Kimia
Phosphate Phosphomolybdate UV Method
by using analyzer AU5800 as
documented in WP/CP/001
Pengendalian Spesimen Patolog
Kimia
Glucose Hexokinase Method by using
analyzer AU5800 as documented
in WP/CP/001 Pengendalian
Spesimen Patologi Kimia
Protein, Total Biuret, reagent blank, end point
method by using analyzer
AU5800 as documented in
WP/CP/001 Pengendalian
Spesimen Patologi Kimia
Sodium ISE Method, Indirect by using
, , , , , , , , , , , , , , , , , , , ,
analyzer AU5800 as documented
analyzer AU5800 as documented in WP/CP/001 Pengendalian
in WP/CP/001 Pengendalian
in WP/CP/001 Pengendalian Spesimen Patologi Kimia
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Issue date: 05 June 2025

Valid Until: -



NO: SAMM 705

Page: 7 of 15

1		
	Triglycerides	Enzymatic, end point method by using analyzer AU5800 as documented in WP/CP/001 Pengendalian Spesimen Patologi Kimia
	Urea Nitrogen	Urease, UV method by using analyzer AU5800 as documented in WP/CP/001 Pengendalian Spesimen Patologi Kimia
	Uric Acid	Uricase, colorimetric method by using analyzer AU5800 as documented in WP/CP/001 Pengendalian Spesimen Patologi Kimia
	UIBC	Nitroso PSAP method by using - analyzer AU5800 as documented in WP/CP/001 Pengendalian Spesimen Patologi Kimia
Routine Chemistry Serum / Urine	Osmolality	Freezing point Method by using analyzer Advanced Microosmometer 3320 as documented in WP/CP/001 Pengendalian Spesimen Patologi Kimia
Urine	SG pH Leukocytes Nitrite Protein Glucose Ketone Urobilinogen Bilirubin Blood (RBC)	Tests Strips (Chemical and enzymatic reaction) method by using analyzer Uriscan Super Plus & Beckman Coulter IRIS Chem Velocity as documented in WP/CP/001 Pengendalian Spesimen Patologi Kimia.
Special Chemistry Whole Blood	HbA1c	HPLC method by using analyzer Biorad D10 as documented in WP/CP/001 Pengendalian Spesimen Patologi Kimia
Special Chemistry Serum	 Acetaminophen Salicylate Digoxin Vancomycin Amikacin Carbamazepine Gentamicin Phenobarbital Phenytoin Theophylline Valproic acid 	Homogeneous enzyme immunoassay technique by using EMIT/ Beckman CoulterAU 5800 as documented in WP/CP/002 Pengendalian Chemistry Analyser-BC AU5800

Issue date: 05 June 2025

Valid Until: -



NO: SAMM 705

Page: 8 of 15

Serum	Alpha Fetoprotein (AFP) Cancer Antigen 125 (CA 125) Carcinoembrionic Antigen (CEA) Cortisol Estradiol Follicular Stimulating Hormone (FSH) HCG Luteinizing Hormone (LH) Progesterone Prolactin Prostatic Specific Antigen, Total (TPSA) Free T3 (FT3) Free T4 (FT4) TSH Testosterone	Chemiluminescence method by using DXi800 analyser as documented in WP/CP/001 Pengendalian Spesimen Patologi Kimia
(drug Laboratory) Special Chemistry Urine	Opiates Screening Cannabinoids Screening Amphetamine Type Stimulant (ATS) Screening Morphine Confirmation Test	EIA method by using analyser Cobas C501 as documented in WI/DD/005 Ujian saringan dadah dalam urin menggunakan kaedah immunoassay Thin Layer Chromatography Method as documented in WI/DD/002 Ujian Pengesahan Morphine didalam urin
	Cannabinoids Confirmation Test	menggunakan TLC Thin Layer Chromatography Method as documented in WI/DD/003 Ujian Pengesahan Cannabinoid didalam urin menggunakan TLC
	Amphetamine Confirmation Test	GCMS method by using analyser GCMS Shimadzu QP2010 and GCMS Agilent G7077B-5977B as documented in WI/DD/004 Ujian Pengesahan Amphetamine Type Stimulant didalam Urin menggunakan GCMS

Issue date: 05 June 2025

Valid Until: -



NO: SAMM 705

Page: 9 of 15

FIELD(S) OF MEDICAL TESTING: HAEMATOLOGY

Specimen Tested	Type Of Test / Properties Measured	Test Methods, Specifications/ Equipment/Techniques Used
Routine Haematology	Full Blood Count / Full Blood	WBC / RBC / Platelet Laser Light
Whole Blood	Picture	Scatter / Hemoglobin / Cyanide
		Free Hb method by using
		analyser Sysmex XN 1000 as
		documented in WI/HM/032.
	Slides	Manual Method as documented
	Sildos	in WI/HM/002
	Slides	Automated Slide Preparation by
	oaos	using analyser Sysmex SP-50 as
		documented in WI/HM/009.
	Reticulocyte Count	Flowcytometry with semi-
		conductor laser method by using
		analyser Sysmex XN1000 as
		documented in WI/HM/032
Plasma	Prothrombin Time / INR	Nephelometric method by using
T lacina	Activated Partial	ACL TOP 350 CTS as
	Thromboplastin Time	documented in WI/HM/008,
	Mixing Study	WI/HM/009, WI/HM/010.
	Fibrinogen	Chromogenic method by using
	1 ibiniogen	ACL TOP 350 CTS as
		documented in WI/HM/008.
	Erythrocyte Sedimentation Rate	Photometry Red Cell Aggregation
	Liyillocyte Sedillelitation Nate	method by using Alifax Roller
		20PN as documented in
		WI/HM/016
	CCDD fluorescence and test	Manual / Visual Fluorescence
	G6PD fluorescence spot test	
		Method as documented in
	D. Dimor Comi guantitativa	WI/HM/017
	D-Dimer Semi quantitative	Latex Agglutination Method as
	D-Dimer Quantitative	documented in WI/HM/012
	D-Dimer Quantitative	Automated Latex Enhanced
		Immunoassay method by using
		ACL TOP 350 CTS as
Charieliand Harry et al	Hamandahin Aratista	documented in WI/HM/008
Specialised Haematology	Hemoglobin Analysis	Capillary Electrophoresis method
Whole Blood		by using Sebia II Flex Piercing as
	I I a constitution of the	documented in WI/HM/031
	Hemoglobin Analysis	High performance liquid
		chromatography method by using
		Biorad Variant II as documented
		in WI/HM/004
Plasma	Factor VIII, Factor IX Assay	Nephelometric method by using
		ACL TOP 350 CTS Method as
		documented in WI/HM/013
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Issue date: 05 June 2025

Valid Until: -



NO: SAMM 705

Page: 10 of 15

Lupus Anticoagulant	Nephelometric method by using
· ·	ACL TOP 350 CTS as
	documented in WI/HM/014
CD4 and CD8 Enumeration	Flowcytometry method by using
	Beckman Coulter AQUIOS CL as
	documented in WI/HM/015
ne Marrow Aspiration	Leishman stain, manual method
	as documented in WI/HM/018

Issue date: 05 June 2025

Valid Until: -



NO: SAMM 705

Page: 11 of 15

FIELD(S) OF MEDICAL TESTING: MEDICAL MICROBIOLOGY (BACTERIOLOGY)

Specimen Tested	Type Of Test / Properties Measured	Test Methods, Specifications/ Equipment/Techniques Used
Bacteriology -—• Feces Or Stool -—• Urine	Stain	Gram Stain method as documented in WI/MK/STAINS/001-002
-—• Throat, Nasal, Nasopharyngeal	Culture	Manual method as documented in WI/MK/001-011 & 014
Pus, Wound, Tissue, Bone, Slough	Bacterial Identification	Maldi-tof method as documented in WI/MK/022
-→• Ear -→• Body Fluids Or Effusions (tracheal Aspirates, Peritoneal, Pleural Fluids Etc.) -→• Eye, Corneal Scrapping -→• Urogenital (urethral, Cervical, Vaginal, Etc) -→• Sputum, Bronchial Alveolar Lavage (bal) -→• Skin Scraping	Antibiotic Susceptibility Testing	Kirby-Bauer Disc Diffusion method as documented in WI/MK/SENSI/001-005
Blood	Stain	Gram Stain method as documented in WI/MK/STAINS/001-002
	Culture (Aerobic, Anaerobic and Fungi)	Culture (Aerobic, Anaerobic and Fungi)
	Bacterial Identification	Maldi-tof method by using Bruker MALDI Biotyper as documented in WI/MK/022
	Antibiotic Susceptibility Testing	Kirby-Bauer Disc Diffusion method as documented in WI/MK/SENSI/001-005

Issue date: 05 June 2025 Valid Until: -



NO: SAMM 705

Page: 12 of 15

FIELD(S) OF MEDICAL TESTING: MEDICAL MICROBIOLOGY

Specimen Tested	Type Of Test / Properties Measured	Test Methods, Specifications/ Equipment/Techniques Used
Bacteriology Faeces Or Stool	Rotavirus and Adenovirus Detection	Immunochromatographic (ICT) method as documented in WI/MK/016
	Clostridium difficile Toxin A & B Detection	Immunochromatographic (ICT) method as documented in WI/MK/019
Mycobacteriology Blood	TB Culture	Semi-Automated method as documented in WI/MK/018
• Urine • Ear • Body Fluids Or Effusions	Isolation and Identification of Fungi: i. Stain	KOH and Lactophenol Cotton Blue method as documented in WI/MK/STAINS/005 - 006
(tracheal Aspirates, Peritoneal, Pleural Fluids Etc.)	ii. Culture	Manual method as documented in WI/MK/001-012, 018
Faeces Or Stool	IDirect Examination and Identification of Parasites: i. Cryptosporidium	Direct Microscopic method as documented in WI/MK/021
	ii. Cyclosporidium Microsporidium Isospora belli	Direct Microscopic method as documented in WI/MK/021
Blood	Malaria Parasite (BFMP)	Giemsa Stain method as documented in WI/MK/PARASITE/001
(tb Laboratory) Mycobacteria• Urine• Body Fluids Or Effusions (tracheal Aspirates, Peritoneal, Pleural Fluids Etc.)• Sputum, Bronchial Alveolar Lavage (bal)• Gastric Lavage• Pus, Wound, Tissue, Bone, Slough	Isolation of Mycobacteria	Manual method of Acid Fast Bacilli (AFB) Stain and Culture as documented in WI/TB/001 - 002
Serology Cerebrospinal Fluids	Stain	Gram Stain method as documented in WI/MK/STAINS/001-002

Valid Until: -



NO: SAMM 705

Page: 13 of 15

	Stain	Indian Ink method as
		documented in WI/MK/STAINS/003
	Cryptococcus Antigen Detection	Latex Agglutination method as documented in WI/MK/ID/019
	Culture	Manual method as documented in WI/MK/012
	Bacterial Identification	Maldi-tof method by using Bruker MALDI Biotyper as documented in WI/MK/022
	Antibiotic Susceptibility Testing	Kirby-Bauer Disc Diffusion method as documented in WI/MK/SENSI/001-005
Virology Serum	Human Immunodeficiency Virus Antigen/Antibody (HIV Ag/Ab)	Electrochemiluminescence Immunoassay (ECLIA) method by using COBAS e801 as documented in WI/MS/042
	Serodia 1/2 Mix Particle Agglutination	Particle Agglutination method as documented in WI/MS/032
	Hepatitis B Surface Antigen (HBsAg)	Electrochemiluminescence Immunoassay (ECLIA) method by using COBAS e801 as documented in WI/MS/042
	Hepatitis B Surface Antibody (Anti-HBs)	Electrochemiluminescence Immunoassay (ECLIA) method by using COBAS e801 as documented in WI/MS/042
	Hepatitis C Virus Antibody (Anti-HCV)	Electrochemiluminescence Immunoassay (ECLIA) method by using COBAS e801 as documented in WI/MS/042
	RPR (Rapid Plasma Reagin)	Latex Agglutination method as documented in WI/MS/035
	Syphilis TP	Manual method by using analyser Architect i2000 SR as documented in WI/MS/007
	Cytomegalovirus IgM	Electrochemiluminescence Immunoassay (ECLIA) method by using COBAS e801 as documented in WI/MS/042
	Toxoplasma IgG / IgM	Electrochemiluminescence Immunoassay (ECLIA) method by using COBAS e801 as documented in WI/MS/042
	Anti-Nuclear Antibody (ANA)	CMIA method by using Inova Bioflash as documented in WI/MS/039

Issue date: 05 June 2025

Valid Until: -



NO: SAMM 705

Page: 14 of 15

Mycoplasma	Particle agglutination method as
	documented in WI/MS/030
Extractable Nuclear Antigen (ENA	CMIA method by using Inova
	Bioflash as documented in
	WI/MS/03
SDNA	CMIA method by using Inova
	Bioflash as documented in
	WI/MS/039

Issue date: 05 June 2025

Valid Until: -



NO: SAMM 705

Page: 15 of 15

SITE LOCATION (HQ)	2. DEPARTMENT OF TRANSFUSION MEDICINE
FIELD(S) OF MEDICAL TESTING:	HAEMATOLOGY

FIELD(S) OF MEDICAL TESTING: HAEMATOLOGY

Specimen Tested	Type Of Test / Properties	Test Methods, Specifications/
	Measured	Equipment/Techniques Used
Transfusion / Blood Bank	Blood Grouping	Manual Method by using Tube
Blood		Techniques
		as documented in WI/BB/002
	Blood Grouping	Manual System Method by using
		Gel Card Techniques as
		documented in WI/BB/002
	Blood Grouping	Gel Card Techniques by using
		automated analyser Biorad IH
		500 as documented in WI/BB/002
	Antibody Screening	Manual System Method by using
		Gel Card Techniques as
		documented in WI/BB/004
	Antibody Screening	Gel Card Techniques by using
		automated analyser Biorad IH
		500 as documented in WI/BB/004
	Coombs Test	Manual System Method /by using
	(direct / indirect)	Gel Card Techniques as
		documented in WI/BB/010
	Antibody Identification	Manual System Method by using
		Gel Card Techniques as
	Dod Call Dhanatain	documented in WI/BB/006
	Red Cell Phenotyping	Manual System Method by using
		Tube Techniques as documented in WI/BB/007
	Plead Compatibility Test	Manual System Method by using
	Blood Compatibility Test	Gel Card Techniques as
		documented in WI/BB/013
	Blood Compatibility Test	Saline Phase Manual Method by
	Blood Compatibility Test	using Tube Techniques as
		documented in WI/BB/012
		(Emergency Crossmatched)

NOTE: